
THE ANDHRA PRADESH DAIRY DEVELOPMENT CO-OP FEDERATION LTD.

PROSPECTUS

**For the Recruitment of
Managers Gr.II (P&I), Assistant Quality Control Officers,
Processing Supervisors, Quality Control Supervisors,
Plant Mechanics, Refrigeration Operators,
Electrician Gr.II, Boiler Operator Gr.II.
(Separate Applications should be submitted for each post)**



THE ANDHRA PRADESH DAIRY DEVELOPMENT CO-OP FEDERATION LTD.,
LALAPET:: HYDERABAD:: 500 017



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THE ANDHRA PRADESH DAIRY DEVELOPMENT COOP FEDERATION LIMITED

Lalapet:: Hyderabad:: 500017

Notification No. 102/Per.I/B1/2013

Dt: 21-02-2014

RECRUITMENT

Applications are invited from eligible candidates in the prescribed
"Application Form" for recruitment to the post of

- I. Managers Gr.II (P&I) – 7 Posts (Scale of pay Rs. 15280 – 40510).**
Multi Zone - I – 2 posts (Zones I to IV): OC – 1, SC – 1.
Multi Zone - II – 5 posts (Zones – V & VI): ST – 1 (Non-Local), SC -1, HH-1 (Hearing Handicapped), OC – 1, ST – 1.
Qualifications: B.VSc
- II. Assistant Quality Control Officer - 1 Post (Scale of pay Rs. 15280 – 40510).**
Multi Zone – I (Zones – 1 & IV): – 1 Post: ST (W) – 1
Qualifications: M. Tech (Dairying) / M.Sc (Dairying) / MVSc (Dairying) / MSc (Food Technology).
- III. Processing Supervisors – 6 posts (Scale of pay Rs. 10900 - 31550).**
Zone – V - 2 Posts: BC –E (W) – 1 , BC (A) – 1,
Zone – VI – 4 Posts: SC (W) – 1, BC (E) – 1, BC (A) (W) – 1, OC – W – 1.
Qualifications: Minimum qualifications IDD 'or' B. Sc (DT) / B. Tech (DT) / B. Tech (Dairying), (4 years duration).
- IV. Quality Control Supervisors - 1 Posts (Scale of Rs. 10900 - 31550)**
Zone – VI – 1 Post, BC – A (W) – 1.
Qualifications: B. Tech (Dairying) / MSc (Chemistry) / MSc (Micro biology) / M. Tech "or" MSc (Food Technology)
- V. Plant Mechanics – 2 posts (Scale of pay Rs. 9460 – 27700).**
Zone – VI – 1 post: BC – E (W) – 1.
Zone – II – 1 post: BC-A (W) – 1.
Qualifications: Diploma in Electrical 'or' Mechanical Engineering.
- VI. Refrigeration Operator / Mechanics – 2 posts (Scale of pay Rs. 9200 – 27000).**
Zone – VI – 2 posts: OC (W) – 1, SC (W) – 1.
Qualifications: Basic Qualification: SSC with ITI (Refrigeration & Air Conditioning)



VII. Boiler Operator Gr.II (District Posts) - 2 posts (Scale of pay Rs. 8440 – 24950).

Mahabubnagar – 1 post: OC (W) – 1,

Nizamabad – 1 post: OC (W) – 1.

Qualifications: SSC with ITI passed with 2nd class Boiler Certificate issued by the competent authority.

VIII. Electrician Gr.II (District Posts) – 5 posts (Scale of pay Rs.8440 – 24950).

Nizamabad – 1 post: SC (W) – 1.

Khammam – 1 post: SC (W) – 1.

Warangal – 1 Post: SC (W) – 1.

Ananthapur - 2 posts: OC (W) – I. SC (W) – I.

Qualifications: Basic Qualification: SSC with ITI Electrical 'or' Electronics.

Age: 34 years as on **01-02-2014** / 5 years relaxation in case of SC / ST / BC for all posts

Applications available at all APDDCF General Manager/Deputy Director Offices (Annexure-II) from **24-02-2014**. Details regarding scheme of examination fees, syllabus etc., are available on our website www.apddcf.gov.in. For clarification, Personnel Officer can be contacted at Head Office Phone No. 040 – 27019097.

Application should be submitted separately for each post.

Last date for receipt of filled applications in Managing Director's Office, APDDCF Ltd., Lalapet, Hyderabad is **19-03-2014 by 5:00 P.M.** Written test on **06-04-2014** (Tentatively).

SD/-
MANAGING DIRECTOR



**PROSPECTUS FOR THE RECRUITMENT OF
Managers Gr.II (P&I), Assistant Quality Control Officers,
Processing Supervisors, Quality Control Supervisors,
Plant Mechanics, Refrigeration Operators, Electrician Gr.II,
Boiler Operator Gr.II.**

1. Application should be submitted separately for each post.
2. The applications received in the prescribed form only shall be considered and APDDCF Ltd., will not be responsible for postal loss or transit delays (in cases where candidate send application directly to APDDCF Ltd., by speed post).
3. If applications are not in prescribed proforma or incomplete in any respect like without photograph of the candidate on the application or without supporting documents or received after prescribed closing date for any reason what so ever such applications will be summarily rejected.
4. Applications are available with the following APDDCF Offices on payment of Rs. 100/-.
 - a. Managing Director Office, APDDCF Ltd., Vijaya Bhavan, Lalapet, Hyderabad.
 - b. Deputy Directors Office, APDDCF Ltd., Kadapa, Ananthapur, Madanapalli
 - c. Deputy Directors Office, APDDCF Ltd., Khammam, Warangal, Mahabubnagar, Eluru, Rajahmundry, Vijayawada.
 - d. General Manager Office, APDDCF Ltd., Nizamabad.
5. The candidate should not furnish any particulars that are false or fabricate information or suppress any material information while filling up the application form. Detection of such irregularity renders the candidature liable for rejection. The decision of the Board of APDDCF Ltd. is final.
6. All the certificates issued by the competent authority should compulsorily be kept with the candidates to be produced as and when required.
7. Incomplete application and applications received without supporting documents will not be considered.

Note on Important Legal Provisions Governing the Recruitment Process

1. The recruitment will be made to the vacancies notified only and processed as per the APDDCF Ltd., Service Rules & Regulations and norms fixed by the Management of APDDCF Ltd.,
2. Caste / Community certificate issued by the competent authority i.e. MRO / Tahsildar / RDO / Sub-Collector will only be accepted. BC's / SC's / ST's belonging to other States are not entitled for reservation.
3. **Zonal / Local:** In terms of para 8 of the G.O.AP Public Employment (Organization of Local Cadres and Regulations of Direct Recruitment) Order 1975 (G.O.Ms.No. 674, GA (SPF – A) Department, dated 07-03-2002, and other orders / Instructions issued by the Government in this regard 70% of posts are to be filled by local cadre candidates and remaining 30% of posts are open for which local and non-local are to be considered on the basis of combined merit list (see Definition of Local candidate).
4. The reservation to Women will apply as per General Rules and Special Rules.
5. The Management of APDDCF is empowered to conduct examination / interview for appointment to the posts notified herein and recruit the candidates as per norms fixed.
6. The persons already in Government Service / Autonomous bodies / Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform in writing, to their Head Office / Department that they have applied for his recruitment.



7. The candidates belongs and claiming to be Backward Classes Group – E may apply indicating their community as BC –E However, providing reservation to BC –E group will be subject to the adjudications of the litigation pending before the Hon'ble Court.
8. Government has issued orders in the G.O.Ms.No. 3 Backward Classes Welfare (C- 2) Department, dated 04-04-2006, laying down the criteria to determine Creamy Layer among backward classes in order to exclude from the provisions of reservations. Government of Andhra Pradesh has adopted all the criteria to determine the Creamy Layer among Backward Classes as fixed by the Government of India. The Government have fixed the annual income limit at Rs. 4.00 lakhs, in view of the Government said orders candidates claiming as belongs to Backward Classes have to produce a certificate from the competent authority regarding their exclusion from the Creamy Layer at an appropriate time.
9. Each applications must be accompanied by Demand Draft worth of Rs. 500 for OC's, Rs. 200 for OBC's, Rs.100/- for SC/ST drawn in favour of **Managing Director, APDDCF Ltd., Lalapet, Hyderabad, PC** (Physically Challenged) are exempted from fees.

10. DEFINITION OF LOCAL CANDIDATE:

- i. "Local Candidate" means a candidate for direct recruitment to any post relation to that local area where he / she has studied in educational institution (s) for not less than four consecutive academic years prior to and including the year in which he /she appeared for SSC or its equivalent examination. If however, he / she has not studied in any educational institute during the above four years period, it is enough if he /she has resided in that which is claimed as his / her area during the above said period.
- ii. In case the candidate does not fall within the scope of the (i) above it will be considered if he / she has studied for a period of not less than seven years prior to and inclusive of the year in which he / she has studied for the maximum period out of the said period of seven years AND where the period of his / her study in two or more local areas are equal such local area where he / she has studied last (in such local area) will be taken for determining the local candidature. Similarly, if he / she has not studied during the above said period in any Educational Institution (s) the place of residence during the above period will be taken into consideration and local candidature determined with reference to the maximum period of residence or in the case of equal period where he / she has resided last.
- iii. If the claim for local candidature is based on study, the candidate is required to produced a certificate from the Educational Institution (s) where he /she was studied during the said 4/7 years period. If, however, it is based on residence, a certificate should be obtained from an officer of the Revenue Department not below the rank of a Mandal Revenue Officer in independent charge of a Mandal.
- iv. If, However, a candidate has resided in more than one Mandal during the relevant four / seven years period but within the same District or Zone as the case may be separate certificates from the Mandal Revenue Officers exercising jurisdiction have to be obtained in respect of different areas.

PROCEDURE OF SELECTION:

1. The selection of candidates for appointment to the posts will be made in two successive stages viz.
 - I. Written examination (Objective type) in English – 90 Marks
 The written test consist of

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|-----|-----------------------|---|-----------|
| (a) | Concerned Subject | – | 45 Marks, |
| (b) | Logical Reasoning | – | 15 Marks |
| (c) | Quantitative Aptitude | – | 15 Marks |
| (d) | General English | – | 15 Marks |
 - II. Oral test in the shape of interview – 10 Marks

(*) NOTE: There is no written test for the post of Boiler Operator Gr.II.



2. The Final Selection of these posts will be based on the written and oral marks put together in order of merit.
3. Only those candidates who qualify in written examination by being ranked high will be called for oral interview in 1:3 ratios. The minimum marks are 40% for OC; 35% for BC's & 30% for SC / ST / PC. The minimum qualifying marks are relaxable in case of BC / SC / ST / PC on the discretion of Board of APDDCF Ltd.,
4. Absence in any above test will automatically render his candidature as disqualified.
5. The candidates have to produce Original documents and other particulars for verification as and when required and called for. If the particulars furnished in the application do not tally with the original documents produced by the candidate, the candidates will be rejected.
6. The appointment of selection candidates will be subject to their being found medically fit in the appropriate medical classification.
7. The selected candidates will have to execute a bond of Rs. 100/- on non-judicial stamped paper stating that he has to serve the organization for a period of minimum one year failing which the total emoluments drawn during the year will be remitted back to the Federation if he left the organization within period of one year
8. The decision of the Management of APDDCF Ltd., in all aspects and all respects pertaining to the application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned. The Management of APDDCF Ltd., also reserves its rights to alter and modify regarding time and conditions laid down in the notification for conducting the various stages up to selection, duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the APDDCF Ltd., at any stage.

SD/-
MANAGING DIRECTOR

COPIES TO BE ATTACHED ALONG WITH APPLICATION FORM

1. SSC Certificate
2. Community / Nativity Certificates.
3. School Study Certificate, continues study for 4 years (4th to 10th class).
4. Educational Qualifications of all provisional Certificates with marks list.



Syllabus for the Post of Manager Gr.II (Veterinary Graduate)

Subject

- I. Animal Biotechnology
 - a. Definitions, basic concepts and scope of animal biotechnology.
 - b. Biotechnological application in animal improvements.
 - c. Nutritional biotechnology including bioconversion of lignocelluloses.
- II. Veterinary Neuropharmacology
 - a. Drugs acting on autonomic nervous system.
 - b. Autacoids.
 - c. Drugs acting on somatic nervous system.
- III. General Veterinary Parasitology and Helminthology
 - a. Classification of helminths.
 - b. Trematodes.
 - c. Cestodes.
 - d. Nematodes.
- IV. Veterinary protozoology
 - a. Kalazar, animal trypanosomosis(surra), trypanosomosis (Due to African trypanosoma in cattle and man.
 - b. Bovine trichomonosis.
 - c. Recent development in protozoan vaccines for field use.
- V. Milk and Meat Hygiene, Food safety and public health
 - a. Milk hygiene in relation to public health. Microbial flora of milk and milk products. Sources of milk contamination during collection and transport of milk and processing of dairy products. Control of milk and milk product contamination. Hygienic handling/ management of dairy equipment. Quality control of milk and milk products.
 - b. Food safety.
- VI. Veterinary epidemiology and zoonoses
 - a. Factors influencing occurrence of livestock diseases and production.
 - b. New, emerging, re-emerging and occupational zoonoses.
- VII. Principles of animal nutrition and feed technology
 - a. Importance of nutrients in animal production and health.
 - b. Nutritional terms and their definitions.
 - c. Importance of minerals and vitamins in health and production.
 - d. Common feeds and fodders.
- VIII. Livestock and poultry Breeding
 - a. Classification of breeds.
 - b. Economic characters of livestock
 - c. Breeding methods for the improvement of Dairy cattle and Buffalos
- IX. Livestock production management – I (General Principles and Ruminants)
 - a. Introductory animal husbandry. Common animal husbandry terms.
 - b. General principles affecting the design and construction of building for housing for various livestock species.



- X. Fodder production and Grassland Management
 - a. Importance of grasslands and fodders in livestock production.
 - b. Harvesting and post harvest techniques for fodder preservation.
 - c. Storage of feeds and fodders.
 - d. Feed and Fodder Management for individual animals.
- XI. Milk and milk products Technology
 - a. Milk industry in India. Layout of milk processing plant and its management.
 - b. Composition and nutritive value of milk and factors affecting composition of milk.
 - c. Physico-chemical, properties of milk.
 - d. Microbiological deterioration of milk and milk products.
 - e. Collection, Chilling, Standardisation pasteurization, homogenization, bactofugation.
 - f. Preparation of butter, paneer, chana, ghee, khoa, lassi, dadhi, ice-cream, cheddar cheese and dairy byproducts.
 - g. Good manufacturing practices.
 - h. Implementation HACCP.
 - i. Toxic/pesticides residues in milk and milk products.
 - j. Legal and BIS standards of milk and milk products.
- XII. Veterinary obstetrics
 - a. Dystocia.
 - b. Postpartum diseases and complications
- XIII. Veterinary Clinical Medicine – II (Metabolic and Deficiency diseases)
 - a. Aetiology, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention and control of metabolic disorders.
 - b. Diagnosis and management of diseases caused by deficiency of mineral and vitamins in domestic animals.
- XIV. Veterinary preventive Medicine-II (Viral & Parasitic Diseases)
 - a. Clinical manifestation, diagnosis, prevention and control of infectious diseases in bovines.
- XV. Livestock Economics, Marketing and Business Management
 - a. Livestock produce and products.
 - b. Economics of animal disease and disease losses.
 - c. Agreement on trade and tariff-GATT) for marketing/trade of live animals and products.
 - d. Resource management.
- XVI. Livestock Entrepreneurship
 - a. Avenues of entrepreneurship / employment in private and public sectors.
 - b. Essential criteria for development of entrepreneurship in livestock sector.
 - c. Approach to preparation of entrepreneurial project on livestock.



Syllabus for Assistant Quality Control Officer: Dairy Technology

1. **Dairy Processing:** - Use of Bio productive factors for preservation of raw milk, present status of preservation of Raw milk by chemical preservatives, UHT processed milk products and their properties and prospects, current trends in cleaning & sanitization of Dairy equipments.
2. **New Product Development:-** New product development criteria, Role of sensory analysis, Recent developments in food ingredients/additives/Flavourings/colourings/emulsifiers/stabilizers/sweeteners.
3. **Advances in Protein Technology:-** Denaturation of proteins, Effect of denaturation on physico chemical, and biological properties of protein in food systems.
4. **Dairy Plant Management :-** Qualities and role of Dairy Managers, decision making, planning & implementation, motivation and coordination, production planning and inventory control, Organisation & communication (MIS), concept of quality circles, New concept in quality assurance (H.A.C.C.P & I.S.O certification).

Dairy Microbiology (ICAR Syllabus)

1. **Starter Culture:** - Starter types, propagation and preservation of culture, commercial starter cultures, Role of starter culture in preparation of fermented milk, like, yoghurt, Dahi etc.
2. **Microbial Spoilage:** - Influence of processing on microbial flora of milk, Role of thermophilic & Thermotolerant micro organisms in milk spoilages Significance of spore formers, other types of microbiological spoilages and defects.
3. **Microbial Pathogenesis and Toxins:** - Rapid detection techniques for food born pathogens and their toxins.
4. **Microbiology of Dairy fodder and waste Utilization :-** Microbial inoculation of fodder crops, silage fermentation, liquid waste management for resource recovery and pollution control.

Dairy Chemistry (ICAR Syllabus)

1. **Chemistry of Milk Lipids:** - Classification, gross composition with physical properties; Fatty acids profile, composition, properties and Factors affecting lipids.
2. **Chemistry of Milk Proteins:** - Nomenclature of milk proteins, major milk proteins, estimation of proteins & lipids.
3. **Chemistry of Milk Products:** - Heat stability of concentrated milk as effected by different process variables, physico chemical properties of dried milk as effected by different process treatments, stability of milk powder.
4. **Chemical quality Assurance:** - Concept of quality assurance, Quality management system – I.S.O:9000, TQM, GMP, HACCP, BIS, MMPO, APEDA, CAC, AOAC, WTO, preparation of standard reagents, detection of adulterants in milk and milk products etc.



Syllabus for Processing Supervisors

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| Market Milk | Collection and transportation of milk, Reception, processing, standardization of market milk. Homogenization, Bactofugation. UHT Milk, CIP Cleaning |
| Traditional Dairy Production | Khova, Paneer, Doodhpeda |
| By products technology | Casein, whey processing, butter milk processing, membrane technology. |
| Fat rich dairy products | Composition of milk fat, cream, butter, margarine, Ghee and butter oil, technical control in butter industry |
| Condensed and dried milk | Physico-chemical properties of condensed milk, manufacture, management of condensed and dried milk industry. |
| Packaging of dairy products | Current status of packaging industry in India, packaging of milk and milk products, Disposal of wasted packaging material, new packaging materials like bio degradable films, Characteristics of paper, glass, metal, plastics foils and laminate. |
| Sensory evaluation of dairy products | Definition, importance of sensory evaluation, fundamental rules for scoring and grading of milk and milk products, sampling procedure, grading of milk, cream and milk products. |
| Dairy plant maintenance | Hygiene and effluents disposal, procedures for maintenance of various machinery and equipment, significance of log books and their maintenance, significance of hygiene in milk plant, properties of cleaning compounds, pollution and control dairy wastes, waste disposal, water inputs and treatment softening of water. |
| Chemistry and Physical chemistry of milk | Isomerism, stereo isomerism, enzymes carbohydrates, fatty acids and lipids, vitamins, density and specific gravity of milk and products, viscosity, preservatives neutralizes, adulterants in milk and their detection, physico-chemical changes during manufacture of ghee flavour compounds. |
| Quality assurance | Importance of chemical quality control in dairy industry calibration of glassware, legislation on production, transportation, processing and marketing of milk, quality assurance in milk and milk products. |
| Microbiology Of Milk Products | Bacteriological Analysis of milk cream, Butter, Condensed and evaporated milks dried milks ice cream and indigenes products, quality of dairy water supplies, prediction of shelf life behavior, quality assurance in UHT, application of HACCP in dairy industry. |
| Computer applications in dairy industry | Programming concepts, computer language, Data base concepts, programming, cost analysis of milk and milk products, application in dairy industry. |



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| Marketing management and international trade | Marketing in enterprises, marketing functions, marketing management, process, marketing information, buyer behavior channels of distribution, pricing strategies, demand and sales, forecasting, product related strategies, marketing risks, advertising management, international trade. |
| Human resource and entrepreneurship | Concepts, principles, HR Policy, HR Recruitment, selection, transfers and promotions, motivation, leadership, decision making and control, conflict management. |
| Cost Accounting and control | Definition obligation, different methods of costing material costs and overhead costs, cost sheets process costing. |
| Financial Management | Goals of financials management, systems of accounting, financial analysis and planning, working capital management, cash management, inventory management banking transaction. |
| Dairy Engineering | Pasteurizes, Homogenizers, Sterilizers, filling operations, mixing and agitation, equipment incorporated in packing of milk and milk products, basic refrigeration cycles and concepts, Refrigeration controls, Drying equipment principles of automatic controls estimation of services requirements including peak load consideration. Alternative current fundamentals, transformers, induction motors, measuring instruments, electric power economics. Stream generation: coal fired boilers and oil fired boilers. |



Syllabus for Quality Control Supervisor

- Composition of Milk & Milk Products.
- PFA & BIS Standards for Milk & Milk Products.
- Processing of Milk - Standardization, Homogenization, Pasteurization & Sterilization.
- Chemical & Microbial tests for Milk & Milk Products.
- Preparation & Standardization of Laboratory Chemical & Reagents, Calibration of Glass ware.
- Cleaning & Sanitization of Plant & Machinery (CIP System).
- Concept of quality assurance, Quality Management systems - ISO<.HACCP, MMPO, BIS.
- Detection of Adulterants, Preservatives & Neutralizers in Milk.
- Microbial Rapid detection Techniques in Milk.
- Chemical & Bacteriological Analysis of Water used in Dairy Industry as per BIS.
- Fermented Products: Type of Starter culture, Propagation & Preservation of culture - Role of starters culture in preparation of Dahi, Lassi & Butter Milk.
- Bacteriological analysis of Air.
- Indian standards for Dairy Sewage effluents.



Syllabus for Refrigeration Operator / Mechanic

- 1. General Engineering:** Importance of the trade in the industrial and commercial field – simple marking measuring tools & their use – aspects, drilling speed, feed & coolants – specification, use and safety of Tap & dies reamers type – elements of screw threads, precision measuring, marking and checking tools type – sheet metal tools – welding – soldering & brazing – method of electric welding electrode-type – electrician hand tools – conductors & insulators – electrical work, power & energy – common electrical measuring instruments – electrical circuit, series & parallel circuit – resistances earthing and fuses – insulated wire and cables – material for wiring – A.C. Motor, starters and transformer – working principles, specification & use – Run/start capacitors and PTCs – Motor protection devices
- 2. Basic Electronics:** Principles of Diodes, semi conductors, Amplifiers, Transistors, SCR's – rectification – zener diode as voltage regulator – transistors parameters – CB, CE, CC, configuration, amplification – photo diodes – photo transistors, multi-vibrator, CR & LR circuit, SCRs, UJTs, ICs – Thermistors, RTDs, Electronic Thermostats, Principles of Remote Controls & Controllers – use and function of contractors / starters, pressure controls, solenoids, timers both Electromechanical and solid state
- 3. Refrigeration & various refrigeration systems:** Refrigeration – typical refrigeration system, its components, working – temperature pressure relationships – refrigeration cycle – sensible and latent heats, superheating & sub-cooling – cu tubes – theory of brazing – working principles of hermetic & open type compressors of the reciprocal, rotary, scroll & rotary – wobble plate compressors – lubrication system – capacity control of multicylinder compressors – condensers – metering devices – liquid distributors – suction line Accumulator Crankcase heaters – oil separators, receivers, Heat exchangers – system controls – operating controls – safety controls
- 4. Refrigerants & RAC equipment:** Refrigerants – elimination of refrigerant emissions through recovery/ recycling – leak testing – cleanliness and hygiene in a refrigeration system – Rotary 2 stage vacuum pumps – whilst retrofitting CFC appliances with HC and HFC refrigerants
- 5. Domestic & Commercial Appliances:** Construction of the refrigerator & components – frost free refrigerator parts – electrical system – construction & functioning of WRAC – evaporative cooling of condenser – split ACs/Room unit & condensing unit – principles of pipe sizing & study of service valves for charging at site – problems in installation with evaporator – use of right instruments & tools to trouble shoot – Refrigerant systems in auto AC and air flow & direction control in evaporator performance – blower and fans, motors etc., used for evaporators and condensers – start & run capacitors, relays and PTCs – Ice Candy plant & Ice cream storage
- 6. Cold storages and commercial refrigeration plants:** Reciprocating compressor – metric efficiency, volumetric efficiency – commercial type reciprocating – compressor lubrication – compressor capacity control – multistage compressor – centrifugal compressor – condenser – evaporative condenser – cooling tower – water conditioning scale – principles of working of a pump – standard fittings, valves etc used in chilled water, condenser water & drain lines – plates & tubes forced air DX evaporators – types of defrost systems & condensate disposal – water / Brine chillers – suc-liquid Heat Exchangers – Food preservation spoilage – cold storage –type construction – pressure testing leak detection and evacuating the system – system and testing efficiency – cold storage plant operation
- 7. Small Air-conditioning plants:** Central Air conditioning – Duct systems – indoor air quality – types of filters – central station AHUs and FCUs using chilled controls used in AC systems – load calculation in AC buildings – methods of leak detection evacuation, charging gas preventive maintenance – large AC and Refrigeration plants – preventive maintenance in large AC and Refrigeration plants



Syllabus for Second Class Boiler Attendant

(a) A Second Class Boiler attendant shall Clearly understand the following:

- The working and management of steam boilers and economizers;
- The use and purpose of the various valves, cocks, mountings and fittings
- The precautions to be taken and procedure to be observed before starting fire and when raising steam
- The use of a feed pump and injector
- The reading of pressure gauge
- The need for periodical cleaning and pure water supply and for prevention of scale or other deposits on heating surfaces
- The need for periodical inspection of boilers and the manner in which they should be prepared for thorough inspection, hydraulic test and steam test
- The precaution to be taken before entering or allowing any person to enter a boiler that is connected to another boiler under steam
- The use of the best means of firing for the prevention of smoke
- The danger of water logging in steam pipes and the precautions to be observed in draining
- The procedure to be followed in the event of shortage of water, bulging or fracture of furnaces or flat plates or bursting of tubes or of any accident to a boiler or steam pipe
- Precautions to be taken when starting an economizer into commission and also to put it out of commission while the boiler is on steam

(b) He shall be able to do the following:

- To stoke a boiler including cleaning and banking fires in a workman-like manner
- To show how avoidable smoke may be prevented
- To blow through and test the correctness of water level gauge glasses and test cocks
- To replace a gauge glass and show how a false water level might be shown
- To ease a safety valve and blow down cock or valve
- To adjust a high steam and low water safety valve and renew a fusible plug
- To pack pump or valve chest glands
- To grind and adjust cocks and valves
- To dismantle a feed pump or injector, reassemble and putting in to working order
- To operate the appliances provided for keeping the economizers clean.



Syllabus for Plant Mechanic (Electrical)

1. Electrical Circuits:

Basic electrical laws - Analysis of DC networks - Transient response of RLC Networks excited by impulse, step, ramp and sinusoidal excitations - Transform methods - AC Networks - Frequency domain analysis – Resonance - Coupled circuits - Two port networks - Three phase networks - Power in AC Networks - Power measurement in 3 phase networks.

2. DC Machines:

Fundamentals of electro mechanical energy conversion - Constructional Features of D.C. Machines - EMF Equation - Types and characteristics of generators Applications - Torque in DC motor - Types of DC motors, applications - Testing of DC motors, efficiency, starting and speed control.

3. AC Machines:

- a) TRANSFORMERS: - Principle, construction, Classification of transformers - E.M.F equation - Transformer on load & no load – Leakage resistance and reactance – O.C and S.C test – Regulation – Sumpner test – Efficiency – All day efficiency – Auto transformer - Three phase transformers connections, star/delta connection – Scott connection - instrument transformers – CTS and PTS.
- b) INDUCTION MOTORS: - Production of rotating magnetic field - Torque, circle diagram, torque slip characteristics - Starting and maximum torque, speed control - Principle of single phase induction motor, applications - Generation of EMF in 3 phase - Alternators, synchronous reactance - Armature reaction, regulation - Parallel operation, salient pole machines - Synchronous motors, torque production - Methods of starting - V-Curves - Synchronous condenser - Stepper motor, servo motors.

4. Electrical Measuring Instruments:

Absolute and Secondary instruments – Electrical principles of operation – deflection, controlling, damping torques – Errors – Moving iron – Moving coil instruments – Extension range of instruments – Electrodynamics type instruments – Meggar – Voltmeters, ammeters, watt meters, energy meters – induction type single – phase watt hour meter – galvanometer – power factor meters – potentiometer – AC & DC Bridges – CRO.

5. Analog & Digital Electronics:

Characteristics of diodes, BJT, FET, SCR - Amplifiers basing, equivalent circuit and frequency response – Oscillators - OP-Amps, applications, filters, timers - Logic gates - Analog to digital and digital to Analog converters - Boolean algebra - 8085 Microprocessor instruction set – Memory storage devices.

6. Power Systems:

Generation – Types of power generating stations – Conventional & non conventional energy sources – Peak load- base load stations – Load factor – Pumped storage system - Transmission – Calculation of line parameters – Concepts of short, medium, and long transmission lines – ABCD Parameters – Insulations – Corona Per unit quantities – Faults - Cables – Circuit breakers – Relays.

7. Utilisation & Traction:

Industrial drives – Motors for various drives – Speed control of motors – Braking methods – Tractive effort – Mechanics of train movement – Illumination – Types of lighting – Types of lamps – Heating & Welding.



Syllabus for Plant Mechanic (Mechanical)

1. Engineering Mechanics:

Statics & Dynamics, Equilibrium – Newton's Law of Motion – Friction, Applications – Simple Machines – Geometrical properties of Sections – Moment of Inertia – Theorems – Radius of Gyration – Basic link Mechanism – Quadric Cycle Chain, Slider Crank Chain – Straight line Mechanism.

2. Electrical Machines and Electronics:

Basic Concepts & Electromagnetic Induction – Ohm's Law, Work, Power & Energy - Faraday's Law – D.C Generators, D.C Motors – A.C Fundamentals & A.C Circuits, Alternators, Transformers, Starters, Single Phase Induction Motors – Storage Batteries – Semi conductors – Electrical measuring instruments, PMMC, PMMI – Dynamometer & Wattmeter – Energy meter & Safety Procedures.

3. Thermal Engineering:

Fundamentals of thermodynamics – Laws of perfect gases – Thermodynamic processes in Gasses – Fuels and Combustion – Air Standard Cycles – Properties of Steam – Internal Combustion engines – Air Compressors – Gas Turbines & Jet Propulsion – Elements of Automobile engineering – Steam Boilers – Steam Nozzles – Steam Turbines

4. Manufacturing Technology:

Lathe & Lathe Work – Shaper, Slotter, Planner – Broaching Machine – Cutting Fluids, Coolants and Lubricants – Welding – Metrology – Milling & Gear Making – Grinding & Finishing Processes – Modern Machining Process – Plastic Processing – Press Tools, Jigs & Fixtures – Jig Boring.

5. Strength of Materials and Machine Design:

Simple Stresses and Strains – Strain Energy – Shear Force and Bending Movement – Theory of Simple Bending & Deflection of Beams – Torsion in Shafts & Springs – Thin Cylinders - Introduction – Bolts, Nuts & Screws – Shafts, Keys & Couplings – Belts, Chain drives & Gears – Cams – Fly Wheels & Governors.

6. Engineering Materials:

Necessity of Refrigeration and air conditioning - Applications – Safety and Precautions – Causes of accidents – Mass, Volume, Density, Specific Gravity – Pressure – Boyle's law, Charles law – Work, Power, Energy – Heat, Temperature – Methods of Heat transfer – unit of Refrigeration.

7. Hydraulics & Fluid Power Systems:

Properties of Fluids – Laminar & Turbulent Flows – Venturimeter – Pitot tube – Flow of Liquids – Flow through pipes – Impact of Jets – Water Turbines – Classification & Governing – Pumps, Classification & Centrifugal Pumps – Oil Power Hydraulics – Pneumatics – Hydro Pneumatic Systems.

8. Industrial Engineering & Estimating and Costing:

Method study – Work Measurement – Inspection & S.Q.C – Fundamentals of Estimation – Elements of Costing – Estimation of Weights – Estimation of Machining times – Estimation of Fabrication Costs – Estimation of Forging & Foundry Costs.

9. CAD/CAM:

Computer aided Design and Manufacturing – CNC Machines and their components – CIMS & Flexible Manufacturing Systems – Robotics.

10. Refrigeration And Air Conditioning:

Fundamentals of Refrigeration and Air Refrigeration – Vapor Compression and Vapor Absorption Refrigeration Systems – Refrigerants, Refrigeration Equipment & Applications – Fundamentals of A/C and A/C Equipment – Psychrometry – Applications of Air Conditioning.



Syllabus for Electrician Grade-II (Electrical)

1. **Electricity & Safety:** Various safety measures involved in the Industry- Elementary first Aid – Trade Hand Tools – Fundamental of electricity, electron theory-free electron, fundamental terms, definitions, units & effects of electric current – soldering technique, resistors – insulators and semi-conductors voltage grading wires & cables voltage grades, precaution in using various types of cables – Ohm's law – Resistors – Kirchoff's laws – wheatstone bridge principle and its applications – common electrical accessories.
2. **Cells & Batteries:** Chemical effect of electric current – principle of electrolysis, Faraday's law of electrolysis, basic principles of electro-plating and electro chemical equivalents – lead acid cell – methods of charging precautions – dry cell – care and maintenance of cells – maintenance efficiency of cells – sheet metal filing – sawing – drilling – taps & dies, threading – bending, soldering
3. **Magnetism:** Magnetism – principle of electro-magnetism, Maxwell's corkscrew rule, Fleming's left & right hand rules. Magnetic field of current carrying conductors, loop & solenoid. Reluctance, BH curve hysteresis, eddy current. Principle of electro-magnetic induction, Faraday's law, Lenz's law – electrostatics – capacitors – effect of variation of temperature on resistance – working principles and circuits of common domestic equipments & appliances
4. **D.C. Machines:** D.C. Machines – concept of electrical machines, principle of D.C. generator – series, shunt and compound generators – Armature reaction, interpoles and their uses – DC Motors – torque speed relations – types of characteristics and practical application motors- special precaution to be taken in DC series motors – Insulating materials – electric wirings – Wiring system – Earthing
5. **Electric Circuits:** Alternating current – comparison D.C. & A.C, advantages of AC – instantaneous value, R.M.S. value average value, peak factor-form factor – phase and phase difference, inductive & capacitive, impedance, power factor – active and reactive power, single phase & three phase system etc – series & parallel power consumption P.F. etc – three phase star & delta connection line voltage & phase voltage, current & power in a 3 ph ckt, with balanced and unbalanced load
6. **A.C. Machines:**
 - a) **Transformers & Alternators:** Transformers – working principle - E.M.F equation, parallel operation of transformer, regulation, efficiency, cooling, protective devices, turn ratio, construction – Transformer oil testing – tap changing off load and on load – bushings and termination – testing of single phase and three phase – Alternator – prime mover, types, regulations, phase sequence – automatic voltage regulator
 - b). **Synchronous & Induction Machines:** Synchronous Motor – working principle, effect of change of excitation – applications – induction motor – D.O.L starter, star/delta starter, autotransformer starter – single phase induction motor – A.C. machine winding – Universal motor – converter-inverter – Fuse – Relays – Industrial wiring – U.G. cables – Corona, lighting arrestor/lighting conductor, horn gap
7. **Measuring Instruments:** Electrical measuring instruments – deflecting torque, controlling torque & damping torque, moving coil permanent magnet – moving iron – range extension – multimeter – wattmeter – PF – megger – energy – frequency – tri vector – max demand – phase sequence indicator – CRO
8. **Basic Electronics:** D.C. rectifier ckt – principle of working of a transistor – transistor amplifiers – oscillator – multivibrator – Op-AMP – U.J.T, F.E.T, S.C.R. Diac, Triac, power MOSFET, G.T.O & I.G.B.T D.C/A.C power control DC/AC motor drives – power supply stabilizers – Digital Electronics
9. **Illumination:** Explanation of light – illumination factors, intensity of light – types illumination & lamps – types of lighting – House-wiring – Decorative lighting.



Syllabus for Electrician Gr.II (Electronics)

1. **Basic Electricity:** Introduction of Electricity – Matter, molecule, atom, Electrostatics, Coulomb's law, electric field, potential, potential difference, charge, resistances – ohm's law – classification of resistors with specifications & use – color codes – Kirchhoff's law and applications – Wheatstone bridge.
2. **Magnetism:** Primary cells, secondary cells, battery construction- efficiency – Amp Hour capacity – types of charging – Electro Magnetism - Magnetism, classification of magnets and their materials, properties of magnets, uses and preparation of artificial magnets – explanation of Electro-magnetism, properties, advantages, application.
3. **Electrical Circuits:** AC comparison with DC – induced E.M.F. Faraday's law, Lenz's law – Generation of A.C. – Sinusoidal nature of A.C. R.M.S. value & instantaneous – Inductance & Capacitance –inductive reactance – capacitive reactance – classification of capacitors with specification- dielectric constant, series & parallel connection – capacitor & inductor, behaviour with A.C. & D.C. time constant – A.C. poly-phase circuits – Series & parallel, current voltage distribution – Resonance in RLC - Q factor – poly-phase (3dia) systems star & delta connection – advantages.
4. **D.C. Machines:** Construction and working principle of Generator & motor, E.M.F. equation of generator & motor – different types of Generator & Motor, characteristics of D.C. Machines –methods of speed control of D.C. motor- uses – Applications.
5. **A.C. Machines:** Construction and working principle of 1 dia transformer – types – efficiency and voltage regulation – Eddy current, Hysteresis, turns ratio, type of core used for LE, HE & VHE Transformer – construction and working principle of 1 dia induction motor.
6. **Communication Systems:** Modulation and demodulation, transmitter, receiver, channel noise, band width – A.M. , F.M. & P.M. – Classification of sound waves – Radio wave propagation – Electromagnetic radiation, fading – Radio receiver, tuning section, I.F. stage and detection audio stage, fault finding – sensitivity and selectivity, Fidelity & signal to noise ratio.
7. **Analog Electronics:** Semiconductor diodes – types - UJT, FET, MOSFET, SCR, - OP-Amp & Timers Rectifiers & filters –Transistor configurations - Amplifiers – Multistage Amplifier, Power Amplifier Classes – harmonic distortion - concept of feed back - gain stability – Oscillators - Multivibrators – Function Generator & oscilloscope – regulated power supply – SMPS, inverter, converter and UPS – CRO & DVMs – Multimeters – taco generator & alarm circuits .
8. **Digital Electronics & Microprocessors:** Number systems – Logic Gates – K-Maps - Decoder, Encoder, multiplexer, Demultiplexer – Flip-Flops & Counters – Triggering circuits – D/A, A/D converter – Memory types – 8085 microprocessor – interfacing - PPI 8255 - serial & parallel communication – DMA Controller 8237- 8051 Microcontroller.
9. **Digital, Satellite communication & Microwave:** PCM – Delta modulation - exchanges, GSM, CDMA – Computer Peripherals –CPU, memory structure, CMOS setup, error detection - keyboard organization, management — pre-directional - Opto-mechanical, serial, bus mouse – serial and parallel communications, RS232, RS485, RS422 - concepts of networking of computer, LAN, WAN, MAN etc – Opto electronics – thermocouple.



FORM FOR COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE

Serial No.

S.C
S.T
B.C

Certificate No:

Seal of the
Issuing
Office

District Code:
Mandal Code:
Village Code:

COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE

(1) This is to certify that Sri/Smt./Kum. _____ Son / Daughter of
Sri _____ of Village / Town _____ of the
State of Andhra Pradesh belongs to _____ Community which is recognized as (*) S.C/S.T/B.C
sub-group _____.

The Constitution (Scheduled Castes) Order, 1950

The Constitution (Scheduled Tribes) Order, 1950

G.O. Ms.No.1793, Education, dated: 25.9.1970 as amended from time to time (BCs.) / S.Cs., S.Ts. list
(modification) Order, 1956 S.Cs and S.Ts (Amendment) Act, 1976.

(2) It is certified that Sri/Smt./Kum. _____ is a native of _____
_____ Village / Town _____ Mandal _____ District of Andhra Pradesh.

(3) It is certified that the place of birth of Sri / Smt. / Kum. _____ is
_____ Village / Town _____ Mandal _____ District of Andhra Pradesh.

(4) It is certified that the date of birth of Sri / Smt. / Kum. _____ is
_____ Day _____ Month _____ Year _____ (in words) _____ as per the
declaration given by his/her father/mother/guardian and as entered in the school records where he/she
studied.

Signature:

Date:

Name in Capital Letters:

Designation:

(seal)

Explanatory Note:- While mentioning the community, the Competent Authority must mention the sub-caste
(in case of Scheduled Castes) and sub-tribe or sub-group (in case of Scheduled Tribes) as listed out in the S.Cs
and S.Ts (Amendment) Act, 1976.



SCHOOL STUDY CERTIFICATE (BONAFIED)

NOTE: Should be obtained from the Head of Educational Institution(s).

1. Name of the Candidate :
2. Father's Name :
3. Date of Birth & Age :

| Class | Name and Place of School | District | Duration of Study giving month and year |
|--------------|---------------------------------|-----------------|--|
| IV | | | |
| V | | | |
| VI | | | |
| VII | | | |
| VIII | | | |
| IX | | | |
| X or | | | |
| SSC | | | |

STATION:

DATE:

Signature of the Head of the
Educational Institution(s)
With Office Seal



CERTIFICATE OF RESIDENCE

(To be produced by such candidates who have not studied in any educational Institution during the whole or any part* of the relevant 4/7 years period but claim to be local candidates by virtue of residence for Post Codes for which there is reservation for Local candidates.

It is hereby certified.

- (a) that Sri/Smt./ Kum _____ S/o.W/o.D/o_____ appeared for the first time for the Matricualtion (S.S.C) Examination in _____ (Month)_____ (Year)
- (b) that he/she has not studied in any educational institution during the whole/or part of the 4/7 consecutive academic years ending with the academic year in which he/she first appeared for the aforesaid examination.
- (c) that in the 4/7 immediately preceding the commencement of the aforesaid examination he/she resided in the following place/places namely;

| Sl.No. | Village | Mandal | District | Period |
|--------|---------|--------|----------|--------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

OFFICE SEAL:

STATION:

DATE:

Officer of Revenue Department
Not below the rank of Mandal
Revenue Officer holding
independent Charge of a Mandal.

STRIKE OFF "WHOLE"/ PART AS THE CASE MAY BE.

LIST OF DISTRICTS & DISTRICT CODES

| Sl. No. | Name of the Districts | District Codes No. | Sl. No. | Name of the Districts | District Codes No. |
|---------|-----------------------|--------------------|---------|-----------------------|--------------------|
| 1 | Srikakulam | 1 | 13 | Chittoor | 13 |
| 2 | Vijayanagaram | 2 | 14 | Hyderabad | 14 |
| 3 | Vishakapatnam | 3 | 15 | Mahabubnagar | 15 |
| 4 | East Godavari | 4 | 16 | Medak | 16 |
| 5 | West Godavari | 5 | 17 | Ranga Reddy | 17 |
| 6 | Krishna | 6 | 18 | Nalgonda | 18 |
| 7 | Guntur | 7 | 19 | Nizamabad | 19 |
| 8 | Prakasham | 8 | 20 | Warangal | 20 |
| 9 | Nellore | 9 | 21 | Khammam | 21 |
| 10 | Kurnool | 10 | 22 | Adilabad | 22 |
| 11 | Kadapa | 11 | 23 | Karimnagar | 23 |
| 12 | Ananthapur | 12 | | | |



ANNEXURE-I
LIST OF SCHEDULED CASTES
(Definition 28 of General Rule – 2)

SCHEDULE –I

(Substituted with effect from 27-07-1977 through G.O.Ms.NO. 838, G.A. (Services – D) department, dated 15/12/1977)

| | | | |
|----|--|----|--|
| 1 | Adi Andhra | 32 | Madiga |
| 2 | Adi Dravida | 33 | Madiga Dasu, Mashteen |
| 3 | Anamuk | 34 | Mahar |
| 4 | Aray Mala | 35 | Mala, Mala Ayawaru* |
| 5 | Arundhatiya | 36 | Mala Dasari |
| 6 | Arwa Mala | 37 | Mala Dasu |
| 7 | Bariki | 38 | Mala Hannai |
| 8 | Bavuri | 39 | Mala Jangam |
| 9 | Beda Jangam, Budga Jangam (In Districts of Hyderabad, Ranga Reddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)* | 40 | Mala Masti |
| 10 | Bindla | 41 | Mala Sale, Netkani |
| 11 | Byagara, Byagari* | 42 | Mala Sanyasi |
| 12 | Chachati | 43 | Mang |
| 13 | Chalavadi | 44 | Mang Garodi |
| 14 | Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas* | 45 | Manne |
| 15 | Chambhar | 46 | Mashti |
| 16 | Chandala | 47 | Matangi |
| 17 | Dakkal, Dokkalwar | 48 | Mahter |
| 18 | Dandasi | 49 | Mitha Ayyalvar |
| 19 | Dhor | 50 | Mundala |
| 20 | Dom, Dombara, Paidi, Pano | 51 | Paky, Moti, Thoti |
| 21 | Ellamalwar, Yellammalawandlu | 52 | (Omitted)* |
| 22 | Ghasi, Haddi, Relli, Chachandi | 53 | Pamidi |
| 23 | Godagali, Godagula (in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) | 54 | PAnchama, Pariah |
| 24 | Godari | 55 | Relli |
| 25 | Gosani | 56 | Samagara |
| 26 | Holeya | 57 | Samban |
| 27 | Holeya Dasari | 58 | Sapru |
| 28 | Jaggali | 59 | Sindhollu, Chindollu |
| 29 | Jambuwulu | 60 | Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt: 31/03/2008 |
| 30 | Kolupulvandlu, Pambada, Pambanda, Pambala* | 61 | Valluvan *(Chittoor and Nellore Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt: 31/03/2008 |
| 31 | Madasi Kuruva, Madari Kuruva | | |

* As per the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. of 2002



LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh *
2. Bagata
3. Bhil
4. Chanchu (Chenchwar omitted) *
5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba *
6. Gond, Naikpod, Rajgond, Koitur *
7. Goudu (in the Agency tracts)
8. Hill Reddis
9. Jatupus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar *
13. Konda Dhoras, Kubi *
14. Konda Kapus
15. Konda Reddis
16. Kondha, Kodi, Kodhu, Desaya Kondas, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yenity Khondhs, Kuvinga *
17. Kotia, Benthoriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (Dhulia, Paiko, Putiya- omitted *)
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted *)
19. Kulia
20. MALis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
21. Manna Dhora
22. Mukha Dhora, Nooka Dhora
23. Nayaks (in the Agency tracts)
24. Pardhan
25. Porja, Parangi Perja
26. Reddi Dhoras
27. Rona, Rena
28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
29. Sugalis, Lambadis, Banjara *
30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts *)
32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi *
33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula *
34. Nakkala Kurivikaran
35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram *)

*As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003



LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES

(Amended from time to time as on 31/08/2007)

GROUP- A

Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,

1. Agnikulakshatriya, Palli, Vadabaliya, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and Pattapu). (Mudiraj / Mutrasi / Tenugollu. The G.O. Ms.No. 15 BCW(C2) Dept., dt. 19/02/2009 is suspended. Hence the inclusion of Mudiraj / Mutrasi / Tenugollu is suspended) vide Hon'ble A.P High Court orders in WP No. 2122/2009 dated: 29-04-2009.
2. Balasanthu, Bahurupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
6. Dasari (formerly engaged in bikshatana)
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dated 23/02/1995)
7. Dommara
8. Gangiredlavaru
9. Jangam (whose traditional occupation is begging)
10. Jogi
11. Katipapala
12. Korchu
13. Lambada or Banjara in Telangana Area
(deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated 3/5/1978)
14. Medari or Mahendra
15. Mondivaru, Mondibanda, Banda
16. Nayee Brahmin (Mangali), Mangala and Bajantri
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
17. Nakkala
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/95 deleting the Original name Pitchiguntla)
19. Pamula
20. Pardhi (Mirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammala, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
23. Veeramushti (Nettikotala), Veera bhadreeya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
24. Valmiki boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya) Talayari and Chunduvallu (G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1) Dept., Dt. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddilu, Vaddi, Vaddelu)
38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
39. Mehator (Muslim) (Govt. Memo No. 234-VI/72-2, Edn., Dt. 05.07.1972).
40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)



41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)
42. Kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2), Dept., Dt. 4/07/08
43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
45. Pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali of Chittoor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.

GROUP – B (Vocational)

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
2. Aryakshatriya, Chittari , Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishaphapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabaliya, Puragirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((sagidi)- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silpis) (Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008
23. Lodh, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)



GROUP – C

Scheduled Castes converts to Christianity and their progeny
(Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)

GROUP – D (Other Classes)

1. Agar
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C. W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
14. Surya Balija, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW (P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
22. (deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008).
23. Polinativelmas of Srikakulam and Visakhapatnam districts
24. deleted vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tammali (confined to five districts of Nalgonda, Mahaboobnagar, Karimnagar, Nizamabad and Adilabad of Telangana Region only and not to other parts of A.P. as amended vide G.O. Ms. No. 20, BCW(A1) Dept., dt 21.07.1997)
30. Turupukapus or Gajula kapus { ... the words "of Srikakulam, Vizianagaram and Vishakapatnam Districts" were deleted vide G.O.Ms. No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms.No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009} who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
34. Are, Arevalli and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9-04-2008
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08



38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudaliar including Thuluva Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08
40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
42. Sondi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
44. Sistakaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
46. Veerashaiva Lingayat/Lingabaliya, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.

GROUP – E

(Socially and Educationally Backward Classes of Muslims)

1. Achchukattalavandlu, Singali, Singamvally, Achchupanivally, Achchukattuvaru, Achukatlavandlu.
2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalas, Muslim Rajakas.
4. Faqir, Fhakir Budbudki, Ghanti, Fhakir, Ghanta Fhakirlu, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavally, Kani-Kattuvally, Garadollu, Garadiga.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvally, Elugu Bantuvally, Musalman Keelu Gurralavally
8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakirlu, Bonthala
11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
12. Shaik/ Sheikh
13. Siddi, Yaba, Habshi, Jasi
14. Turaka Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale, Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kasha
15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik; Mughal, Moghal;
Pathans;
Irani;
Arab;
Bohara, Bohra;
Shia Imami Ismaili, Khoja;
Cutchi-Memon;
Jamayat;
Navayat;

and all the synonyms and sub-groups of the excluded groups; and except those who have been already included in the State List of Backward Classes.

N.B.:1. The above list is for information and subject to confirmation with reference to G.O.Ms. No.58, SW(J) Department, dated 12/05/1997 and time to time orders.

2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.



ANNEXURE - II

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|---|--|
| The Deputy Director Warangal Milk Shed, APDDCF Ltd., Near Alankar Talkies Hanmakonda – 506 011. WARANGAL DISTRICT | The General Manager APDDCF Limited, Nizamabad Milk Shed Nizamabad Dairy, Sarangapur NIZAMABAD – 503 186. |
| The Deputy Director Mahabubnagar Milk Shed APDDCF Ltd., MCC-Bandameedipally MAHABUBNAGAR – 519 001. | The Deputy Director Medak Milk Shed, APDDCF Ltd., M.C.C, Medak – 502 110 MEDAK DISTRICT |
| The Deputy Director (DD) Khammam Milk Shed, Wyrā Road, APDDCF, C/o Khammam Dairy C/o Khammam Dairy, KHAMMAM – 507 0001. | The Deputy Director Krishnaveni Krishna District Milk Producers Coop. Union Ltd H No. 54-20/5, Road No.1 Kanakadurga Officers Colony, Vijayawada – 520 008. |
| The Deputy Director Godavari Dist., Coop. Milk Producers Union Ltd., APDDCF Ltd., Rajahmundry Dairy RAJAHMUNDY – 533 101 GODAVARI DISTRICT | The Deputy Director APDDCF Limited, Janma Bhoomi Park Road, Narsimha Rao Pet, WEST GODAVARI ELURU – 534 006. |
| The Deputy Director, Milk Chilling Centre A.P.Dairy, Madanapalli, CHITTOOR DISTRICT | The Deputy Director, A.P.Dairy Dev. Coop. Fedn. Ltd., Kadapa Milk Shed, 6/107, Ravindra Nagar, KADAPA |
| The General Manager, Ananthapur Dairy APDDCF Limited, ANANTHAPUR – 515 001. | |