The Annual Quality Assurance Report (AQAR) of IQAC-2012

All accredited institutions shall submit the AQAR to the NAAC by the end of every academic year with emphasis on the following key result areas: Name of the Institution: P.R. Government College (Autonomous) KAKINADA

Year of Report: 2011-2012

Part A :

The UGC has conferred this college with the status of "**College with Potential for Excellence**" and funded with 1.5 crores to help this institution to the plan of action chalked out by the IQAC at the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

- a) Strengthen the academic & physical infrastructure for achieving excellence in teaching, research and outreach programmes.
- b) To promote flexible & affective governance.
- c) To enhance the quality of the learning & teaching process.
- d) To promote academic programmes relevant to the socio-economic needs of students.

To promote skill oriented programmes etc

Part B:

1. Activities reflecting the goals and objectives of the institution:

Goals:

- The college wishes to maintain high academic standards to make every student of the college skilled and employable
- To educate the students from rural agriculture based communities by giving preference
- > To create empowerment of women through education
- To keep pace with the knowledge era and gear all activities to match the demands of the scientific and technological world
- To enhance the mindset towards research and creation of knowledge2

Objectives:

- The vision and mission of the college has been closely in line with the aspirations of the farming community by serving them effectively by imparting scientific education to their wards.
- To make education a powerful medium and a tool to promote the social and economical development of backward and disadvantaged sections of community.

These are made known to the public through college website, press, calendar, news letter, parent teacher meetings, alumni, students meetings etc.

2. New academic programmes initiated (UG and PG):

Under PG programme:

- ➤ M.Sc (Analytical Chemistry),
- ➤ M.A (Economics) and from 2011-2012
- M.Com (IT and Statistics) were sanctioned by the Government. (From 2012-2013)
- > M.Sc (Zoology) Proposal submitted to CCE for the year 2012-13
- > M.Sc(Maths) Proposal submitted to CCE for the year 2012-13

3. Innovations in curricular design and transaction;

Every Department added 5-10% of additional inputs to the existing

Affiliated University syllabus.

The curriculum has been planned comprehensively, with student seminars, project works, conducting National & state level seminar on contemporary problems of the subject, field trips, hands on training etc. in certain subjects.

4. Inter-disciplinary programmes started:

B.Sc Actuarial Science, Statistics & Maths is planned from the academic year 2012-2013. Apart from this, common subject viz. foundation course, science & civilization, Environmental Science are interdisciplinary in nature for B.A, B.Com-BSc students.

5. Initiative towards staff development programme:

Encouraged to attend Refresher courses and Orientation in reputed Universities/ Institutions. Motivated to apply Various projects by UGC/DST/DBT/BARC etc. Conducting workshops, Hands on training, modular training programmes, invited guest lectures on certain recent topics, subscribing journals, procuring latest editions of reference books etc.

6. Candidates qualified: NET/SLET/GATE etc. ONE

- As a part of UGC merged schemes, Network resource centre, Remedial coaching, Equal opportunity centre & NET Coaching for PG students were started.
- Mr. M. Nagarjuna Reddy of M.Sc., Organic Chemistry qualified CSIR-JRF in June, 2011

7. Examination reforms implemented:

Automation packages for examination cell, project work assessment for IInd internal assessment in some subjects 60% objective evaluation methods in internal exams, viva voice in practical exams.

8. Total number of seminars/workshops conducted:

- Department of Zoology & Biotechnology organized National seminar on Climate Change: Impact on Bio-resources of Coastal Areas, sponsored by UGC (SERO) on 1 & 2 February 2012.
- On 20-1-2012 Organized Bioquest inter collegiate quiz, Seminar, Poster Presentation.
- National Conference was organized on "Recent Trends in Plant Sciences" on 18th and 19th November 2011
- National Workshop was organized on "Medicinal Botany" on 24th and 25th February 2012.

- A Workshop was organised on 23-8-2011 on "Innovative teaching practices and Orientation to Secondary School Teachers". Dr. Hemanth Pande from Nagpur was the chief Resource Person.
- National Seminar on Linear Algebra and Vector Analysis was organized on 27th and 28th July 2011. Prof. Tenali Gnana Bhaskar from Florida Institute of Technology, Melborne, USA, was the main person. Prof. Ajit Kumar from UIT, University Institute of Chemical Technology, Mumbai. Prof. S. Padmavathi, Hyderabad Central University, Prof Chakradhar Rao, Prof GV Raveendra Babu, Dr. Umadhar Bhatnagar from Andhra University Visakhapatnam attended as resource persons.
- In August 2011 One-Day Workshop in Spoken English for School/ College Teachers was conducted in collaboration with ELTAI, E.G. Chapter by Prof. V.V.N.Rajendra Prasad, Dept of English, SKDU, Anatapur and Prof. T. Viswanadha Rao
- One day workshop on environmental pollution and its Abatement will be organized jointly with department of Environmental sciences ,GITAM University, Visakhapatnam sponsored by APPCB, Kakinada on 16/3/2011
- Organized a two day National Seminar on Recent advances in Physics from 5th & 6th January 2011.
- Department of History organized seminar and awareness programme including counseling for disable students under UGC scheme HEPSN
- Department of Chemistry organized a two day national seminar on Spectroscopy and Instrumentation Techniques was organized on 25thand 26thFeb, 2011
- The department of English has organized a two day National seminar on Big Three from 24/1/2011 to 25/1/2011 Prof S.Ramaswamy, Yale University (USA) Prof. M. Rajagopalachari (Kakatiya University), Dr.K.S Ramesh (Adikavi Nannaya University have delivered lectures.
- National Seminar on "The Influence of Globalization in Modern Telugu Literature" was conducted on 16th 17th September 2011. Prof. M. Sampath Kumar, Madras University has given Keynote Address. The famous Telugu

short story writer Sri. Kalipatnam Ramarao was the Chief Guest on the occasion.

9. Research Projects: a) newly implemented: 04 b) Completed: 02

- A novel concept of faculty research projects for 12 faculty members was introduced and motivated faculty were given an opportunity to take up research at the college level.
- The faculty members who present and publish National and International Journals / Seminars/Conferences were encouraged with financial incentives.

10. Patents generated, if any: NIL

11. New collaborative research programmes:

It is proposed to submit proposals for one major research project with collaboration of National latitude of Hydrology (NIH), Kakinada.

12. Research grants received from various agencies:

- To encourage and inculcate research attitude in the young minds of students, Rs. 46,300/- were allotted to students projects in various departments from IQAC funds.
- Minor Research Projects sanctioned from UGC (SERO) to Sri M.M. Pacha, Lecturer in Chemistry Amount sanctioned: 0.65 Lakhs
- Apart from Basic development grant under XI Plan UGC, efforts were made to sanction a special grant for this autonomous college. The UGC New Delhi has sanctioned Rs. 30, Lakhs towards BSR Grant (Basic Scientific Research) which may be used to meet the expenditure of power Supply, Upgradation of laboratories, Purchase of Research equipments and fire extinguishers etc.

13. Details of research scholars:

Sri D.Rama Rao, lecturer in Chemistry was permitted to work for Ph.D. programe by Andhra University, Visakhapatnam, under the guidance of Prof. YLN Murthy, Head, Department of Organic Chemistry, FOW as research director and Dr. P.V.S. Machiraju, Dept of Chemistry, PG Courses, P.R.Govt. College(A), Kakinada as Co-Research director.

- 2) Smt. Jhansi Lakshmi, Lecturer in Chemistry, Ideal College of Science & Arts, Kakinada has registered for Ph.D. Programme in chemistry with Prof. P. Udatyabhaskar, dept of civil engineering JNTU-K as guide and Dr. P.V.S. Machiraju, Dept. of Chemistry P.R. Govt. College (A), Kakinada as coresearch guide.
- 3) Sri. Ch. Krishna Prasad & Sri K. Rama Murthy who are working as research scientist in E scientia Biopharma, Hyderabad and Thioxwre

14. Citation index of faculty members and impact factor: NIL

15. Honors? Awards to the faculty: NIL

16. Internal resources generated:

C.P.D.C.	15,51,535/-	763137/-
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An amount of Rs. 1, 30, 825 generated through the donations from students, parents, alumni and other miscellaneous amounts for conducting of various government examinations and all.

17. Details of departments getting SAP, COSIST (ASSIST)/ DST. FIST, etc.

- New proposals have been prepared to obtain financial assistance from DBT/DST/FIST apart from UGC.
- Dr. P.V.S. Machiraju, Lecturer, Department of Chemistry submitted proposal for Major Research Project to BARC for approximately about Rs.80Lakhs

18. Community services:

 Department of Zoology On 27-8-2011 organised an extension programme to Maredumilli forest and organized awareness programme on insect borne and water borne diseases.

- Unit-III Besides doing all the activities in the campus, NSS-Unit-III was conducted special camp at Ashram Sravan Old age Home at the adopted village Ramanayyapet, Kakinada rural Mandal. 7 days were stayed there and various activities like clearing of bushes, cleaning of drainage system recording of old people experiences doing some service to the inmates of the Ashram Sravan.
- 23rd August 2011 pruned some samplings with the help of AMMA-Bhagavan –Seva Samithi, Kakinada.
- 13th March-2012- Blood donation camp was organized by NSS Units I & III to the Indian Red Cross.
- Unit-IV& V- Clean and Green Programmes are conducted periodically in the college campus at North Side.
- Plantation and Vana Mahotsav Week Celebrations in the Month of July and August 2011.
- Sramdan Programmes to level the college ground here and there in the North Side College campus.
- Participated in Pulse Polio and Immunization programme salon with local Health authorities.
- Distribution of DEC Tablets to prevent Filarial disease.
- Participated in Leadership training programmes.
- Participated in youth festivals celebrations.
- Organized Blood donation camp on the National Volunteers blood donation day.
- AIDS awareness Rally, literacy camp, School dropout survey and other important days celebrations (Viz.) independence day, Republic day, World AIDS Day etc.,.

19. Teachers and Officers newly recruited:

Teaching Staff (Transfers on promotions)

P. John Kiran, Transferred on Promotion to P.R. Govt. College,
Department of Zoology as a lecturer in Zoology.

- Dr. B. Elia, Transferred on Promotion to P.R. Govt. College,Department of Zoology as a lecturer in Zoology.
- Dr. V. Sandya, Transferred on Promotion to P.R. Govt. College,Department of Zoology as a lecturer in Zoology.
- A. Simhadri, Transferred on Promotion to P.R. Govt. College,Department of Physics as a lecturer in Physics.
- B. Bhadru, Transferred on Promotion to P.R. Govt. College,Department of Chemistry as a lecturer in Chemistry.

<u>Retirements</u>

- 1 Sri. Ch. Sathi Raju, Record Assistant retired from his services on 30-04-2011.
- 2 Sri. P.C.S. Prakasa Rao, Record Assistant retired from his service on 31-10-2011.
- 3 Smt. Y. Bhagyalakshmi, Office Subordinate retired from her service on 30-10-2011.
- 4 Sri. P.V.V. Satyanarayana, Record Assistant retired from his service on 31-12-2011

20. Teaching-Non-teaching staff ratio: 1: 1.77

21. Improvements in the library services:

- The department of Library Sciences has achieved the pinnacle of success during this academic year supported by finances through various agencies particularly UGC under CPE Scheme nearly 1200 books have been purchased. The following have been added for better usage of library facilities both by faculty & students.
- A few new Journals have been added to reading room.
- > The library is connected with INFLIBNET
- > Open access system is started from this academic year
- Library automation ,e-library facility

22. New books / Journals subscribed and their value:

- The department of Library Sciences has achieved the pinnacle of success during this academic year supported by finances through various agencies particularly UGC under CPE Scheme books worth Rs. 10 Lakhs have been purchased in the academic year 2011-2012.
- During the academic year 2010-2011, an amount of Rs. 5.13 Lakhs were spent to purchase 2,006 books. Journals and e-journals worth Rs. 60,210 were purchased.

23. Courses in which student assessment of teachers is introduced and the action taken on student feedback:

In all the courses of study the teachers who teach different subjects for the course are evaluated by students at the end of completion of the syllabus. Analysis is made and the teachers with low assessment / rating are called for by the principal and necessary suggestions are made to improve the teaching for effective outcome.

24. Unit cost of education:

(a) Total annual expenditure divided by the number	of students			
(Including the salary component)	30,783/-			
(b) Total annual expenditure divided by the number of student				
(Excluding the salary component)	1,720/-			

25. Computerization of administration and the process of admissions and examination results, issue of certificates:

College Management system provides a total solution for computerization of college office Administration, Library computerization and examinations. It has the following main modules

Admission on fees

Basic Modules:

- 1) Application sale
- 2) Merit list preparation

- 3) Student registration
- 4) Admission & Other fees
- 5) Fee refund

Students administration

- 1) Admission registers
- 2) Student lists as per courses
- 3) Certificates-TC, CC, Study

Scholarship & fee concessions

- 1) Disbursement registers
- 2) Scholarship bill
- 3) Sanction report
- 4) Award list

> Attendance

- 1) Report of class
- 2) Report of single student
- 3) Poor attendance

> Pay roll

- 1) Monthly pay bills
- 2) Supplementary bills
- 3) Schedules

Library:

- Acquisitions & Cataloguing
- Circulation
- On-line public Access Catalogue

26. Increase in the infrastructural facilities:

- UGC sanctioned an amount of Rs. 70 Lakhs for the construction of Indoor Stadium and the construction is under progress.
- With the financial assistance of 30 Lakhs from State Government and 38 Lakhs from UGC, 1 Seminar Hall, 3 Labs and 6 classrooms were constructed.

27. Technology up gradation:

- All the science departments are provided with sophisticated equipment, some not worthy research grade equipment includes Atomic Absorption spectroscopy, Thermal Cycler, Image Visualiser, Solar power panels, RO plant for mineral water facility, SPPS software for statistics, Bioinformatics labs etc.
- Each department is provided with computer facility with internet access. The faculty was given training to use internet and other equipment.

28. Computer and internet access and training to teachers and Students

All the students are given training on soft skills and computer fundamentals. All the departments are provided with high speed internet facility to enable them for ICT teaching.LCD is provided for all the departments.

29. Financial aid to students:

 In continuation of the best practices of the old students of this institution and department of Physics, 2008 pass outs and presently the employees of NFCL, KAKINADA and other organizations who formed in to a team and established a service club named "SWAMI VIVEKANANDA SOCIAL SERVICE CLUB" on May 12th 2009 to help financially, to the poor and needy students of this and other institutions. This club was started by D. Satya Kiran as the founder and A. Ramesh as coordinator. This year they distributed an amount of Rs. 23,000/- among the needy students.

Scholarships

Type of	Fresh	Renewals	Total
scholarship			
S.C	113	243	356
ST	48	94	142
BC	257	435	692
EBC	147	206	353
РНС	0	1	1
Total	565	979	1544

Scholarship holder's particulars for the year 2011-2012.

• Student Aid Fund worth of Rs. 75,240/- was distributed @ Rs. 360/student and 209 students have been benefited by this scheme.

30. Activities and support from the Alumni Association

- > 03 New classrooms for PG classes were constructed by the Alumni.
- Financial Aid from olds students of 2008 Batch of this college who are employed in NFCL established Swamy Vivekananda Social Service Club and they have been donating cash prize on Aug-15th and Jan 26thevery year from 2009 onwards so for Rs. 35,000 were distributed to meritorious poor students belonging to MPC stream.

31. Activities and support from the Parent-Teacher Association:

Parent teacher association met twice in the year 2011-2012 and suggested programmes that are useful for the overall development of the student.

32. Health Services:

All the students of 2011-2012 were insured in October, 2011. Medical Inspection for both boys and girls was conducted. The girl students were given vaccine against the Gynaeic problems.

33. Performance in sports activities:

- 2011-2012 is also a significant year in the recent past because a record of students i.e. 21 students represented to Andhra University in the All India Inter university tournaments in various fields i.e., Weight Lifting, Cricket, Foot Ball, Judo, Hockey (Men and Women), Hand Ball, Athletics and Cross Country.
- The college secured second place in All India Inter University & South Zone Inter University competitions in Cross Country, Weight-Lifting and Power Lifting, Foot Ball and Hockey. The boys of the college secured third place in the University Hockey tournament. The college Cricket team won first place in the Kakinada Degree colleges Cricket tournament.

34. Incentives to outstanding sports persons:

The Games and Sports persons are given incentives like financial assistance, Fee remission, attendance etc to encourage outstanding sports persons.

- Number of students represented the college in All India Inter University and South Zone Inter University competitions like Cross Country, Weight-lifting and Power lifting, Foot ball and Hockey
- The girl students of the college got 2 silver medals in A.U cross country tournament held at Palakol W.G. District.
- Nine students of college represented Andhra University women's Hockey team.
- Mr. E. Anil Kumar Polayya won two gold medals in A.U. Weight lifting tournament.
- > The boys won 10 gold medals in A.U. Athletic meet held at Rajahmundry.
- > In A.U. 'C' Zone Cricket Tournaments the college secured First place.

35. Student achievements and awards:

- Ch. Swathi of III Biotech got state level first prize in elocution organized by State Consumer forum of Food and civil supplies and awarded a cash prize ofRs. 10,000/- Dec-2012
- *Ch.Swathi of III Biotech got 1st Prize in Paper presentation in BIOFEST, a state level competition organized by DNR College, Bhimavaram
- > *N. Srikanth of I Biotech got Ist Prize in Poster presentation in BIOFEST
- Students of Mathematics secured Medals in Sastra conducted by V.S. Lakshmi College, Kakinada.
- Two students were selected for MTTS (Mathematical Training and Talent search) and trained at Shanthiniketan, Kolkata & RCE-Mysore.
- Center for empowerment and development of women (CEDOW), Kakinada established an award Sri. G.V. Ramadas Memorial Award meant for the best out going lady student of BSc with Physics subject.
- This year Chy. G. Srilakshmi of III BSc., MPCs who secured 733 out of 800 in Physics was selected for the said award.

36. Activities of the Guidance and Counseling unit:

- The primary aim of Guidance and Counseling unit through Jawahar Knowledge Centre is to provide intensive training to students in employable skills and enable students avail themselves of the bright opportunities in the global job market.
- Remarkably, the centers are best utilized by the poorest of the poor and marginalized sections of the society. Students from rural areas who have no access to advantages experienced by their urban counterparts are provided the latest technologies and opportunities to upgrade their skills and encouraged to compete for better standards of living. The centre received overwhelming response from day one and the encouraging placements add to its strength and objectives.

37. Placement services provided to student:

JKC / Placements:

- In 2011-2012 Total No. of students trained are 212.
- No. of students placed in different companies is 42.
- Till total number of students trained in 1449
- Total number of placements up to 2011-2012 is 794.
- On 1-10-2011 Dr. Reddy Labs Campus Drive was conducted our college and toatally 10 students were selected in this drive.
- On 14-12-2011 Final year students were sent for the Wipro Wase & Wipro Wista campus drive at V.S Lakshmi College, Kakinada. Six of our JKC students got selected for Wipro, five for Wipro Wase and one for Wipro Wista.
- On 24-12-2011 Infosys campus drive was conducted for JKC student at Government Arts College, Rajahmundry and seven of our college JKC students was selected for Infosys in this drive.
- On 1-2-2011 ILM campus drive was conducted in our college campus and different college students attended for this drive, totally 29 students got selected for ILM and out of 16 students were P.R.G.C. JKC students.

38. Development programmes for non-teaching staff:

Office automation was done and CMS software was installed for preparation of Bills, posting of attendance and other office services. Apart from this Training on computers was given for maintaining the records and ledgers in a much systematic way. Training was also given for College Management System.

39. Healthy practices of the institution

Mid day meals is provided to the poor and needy students which is unique to only this Institution. Free ships, Fee remission to outstanding students, free medical checkups is in vogue. Student centered education and many activities for the overall development of his ability to gain knowledge and job.

40. Linkages developed with National/International, Academic/Research bodies

- Dr. P.V.S. Machi Raju, Lecturer in Chemistry has been identified by BARC as Principal Investigator to study the EIA of Nuclear establishment to be coming up at Kovvada, Srikakulam.
- Linkage with Dept. of Organic Chemistry/Andhra University and College of Chemical engineering, Andhra University.
- Dr. P.V.S. Machiraju, lecturer in chemistry, department of chemistry has carried out a UGC-(SERO) sponsored Minor Research Project (MRP) for which a linkage has been created with National latitude of Hydrology (NIH), Kakinada a National level central government research organization with Dr. Y.R. Satyaji Rao, Head & Scientist as a co investigator for the project and the final technical report was submitted to UGC-SERO and the same has been accepted by UGC-SERO.
- Dr. P.V.S. Machiraju has established another linkage with Dr. Y.R. Satyaji Rao, Head & Scientist, NIH, Kakinada for a Major Research Project proposal for 16.70 lakhs and the same is in active consideration by central ground water board (CGWB), New Delhi.

41. Any other relevant information the institution wishes to add:

HIGH POINTS OF THIS ACADEMIC YEAR 2011 - 2012

- Illustrious alumni of this college Sri Rallapalli Krishna, Huegerian Research Foundation, USA donated scientific equipment Atomic Absorption Spectrophotometer (AAS). An MOU was signed with Sri Rallapalli Krishna, HRF, USA in this regard.
- National Seminars were conducted by Departments of Botany, Zoology, Mathematics and Telugu during this academic year.
- With the financial assistance of 30 Lakhs from State Government and 38 Lacks from UGC, 1 Seminar Hall, 3 Labs and 6 classrooms were constructed.
- Department of Chemistry organized a number of programmes to celebrate International year of chemistry 2011 with a sanctioned amount of Rs. 1 Lakh from UGC.
- Dr. P.V.S. Machiraju, Lecturer in Chemistry was sanctioned with a Major Research Project worth Rs. 19.2 Lakhs from Ministry of Water Resources, Government of India.
- As a part of UGC merged schemes, Network resource centre, Remedial coaching, Equal opportunity centre & NET Coaching for PG students were started.
- Equal Opportunity Centre to cater the needs of SC, ST, BC and Minority & disabled students, 2 short term courses in Communicative English and Information & Communication Technology were introduced.
- Jaws and Kurzweil software computers are available in the HEPSN and main library.
- Under JKC, 212 students were trained during 2011-2012 and the No. of students placed in different companies is 42.
- Till now total number of students trained in 1449 and the total number of placements up to 2011-2012 is 794.
- During this year, 10 students were selected in Dr. Reddy Labs Campus Drive. Six JKC students got selected for Wipro, five for Wipro Wase and one for

Wipro Wista. Seven JKC students were selected for Infosys. 16 students were selected in ILM campus drive.

- Proposals for Rs. 40 Lakhs were submitted to UGC for the construction of Outdoor stadium and it is under construction.
- The department of Library Sciences has achieved the pinnacle of success during this academic year supported by finances through various agencies particularly UGC under CPE Scheme books worth Rs. 10 Lakhs have been purchased.
- UGC sanctioned an amount of Rs. 70 Lakhs for the construction of Indoor Stadium and the construction is under progress.
- The department of Library Sciences has achieved the pinnacle of success during this academic year supported by finances through various agencies particularly UGC under CPE Scheme books worth Rs. 10 Lakhs have been purchased.
- The initiative of certain faculty members for presenting scientific papers in 6 international conferences & Indian science congress and publishing their research works in reputed journals is a note worthy feature in the academic year.
- Mr. MSVS Prasad (II MCPC) and K. Viswanath (II MCPC) were selected for National level MTTS training to be held from May 21st to June 16th at IIT Kanpur.
- Celebrated National Science day on 28-2-2012. Students showcased their projects and other exhibits. Prof. K.V. Rao of Petroleum Technology, JNTU was the chief guest.

Part C: Detail the plans of the institution for the next year.

Exploring new schemes like "**Star college Scheme**" by DBT Another community linked project with "**DST – TALIM** "(Technology application Livelihood improvement of SC population) With the active cooperation and support of all the stake holders, the

Government, UGC and affiliating University the College wishes to propose

- and pursue some of the following the next few years.
 - A comprehensive master plan envisaging future expansion of the college with separate blocks for each new Department, utilizing every inch of the land available in the college.
 - > Appeal to NRI students for online funding towards activities of their choice.
 - Comprehensive website for Global participation in the infrastructural and academic development of the college.
 - Several short term courses in Life Skills/Job Oriented Programmes in all streams (Science, Humanities and Commerce).
 - Internal Quality Assurance Cell to pursue and promote excellence in all quality aspects.
 - Linkages with Industries and other user agencies.
 - Introduction of a few post-graduate courses relevant to contemporary needs and local domain.
 - Pursuance of special funding for the Central Library Building from the UGC, Govt. of A.P., Public Representatives and Alumni.
 - To improve the institutional ambiance by providing internal roads, an attractive entrance with sign boards development green pastures at some nodal places.

PRINCIPAL