



***White Paper***  
***On***  
***Human Resources & Social***  
***Development***  
  
***In***  
***Andhra Pradesh***

**AP Secretariat – 522503**

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## OBJECTIVE

In the modern context of development, Human Capital forms the base of economic growth. Therefore, in order to achieve state of Andhra Pradesh's vision to become 'Social & Knowledge Capital' of the country and leapfrog into a knowledge economy to attain exponential growth – the need for an efficient, resilient and healthy social sector in the state is indispensable.

The objective of this white paper is to underscore the industrious efforts undertaken by the present government for systematic transformation of Education, Health and Social Welfare in the state.

## INTRODUCTION

The Human Development approach puts people at the center of development agenda, where economic growth and wealth are considered a means to development, not an end by itself. Essentially, the purpose of development is to improve human lives by not only enhancing income but also expanding the range of things that a person can be and can do i.e. to be healthy & well nourished, to be knowledgeable, to be athletic and to actively participate in community life.

In the state of Andhra Pradesh (according to census 2011) with 50% of its population under 25 years of age, the present population demographics provides a huge opportunity as well as responsibility for human and social development progress in the state.

Therefore, under Social Empowerment and Knowledge Mission, the present government has undertaken the responsibility to invest necessary resources required to improve health & social welfare, to improve sports facilities, to provide quality education and to provide skill enhancement opportunities in the state.

**An efficient and healthy human resources & social development sector in the state encompasses –**

- **An inclusive, quality and affordable Education** – Education (School & Higher) in every sense is one of the fundamental factors of development and to achieve sustainable economic development, substantial investment in Education is a must.
- **Presence of Skilled Human Capital in the State** - Globalization, knowledge, and competition have intensified the need for a highly skilled workforce in the developing nations as it enables them to accelerate their growth rate towards a higher trajectory. Therefore, to achieve sustainable economic and human development in the state, sustained efforts are undertaken to develop skilled human capital in the state.

- **Healthcare, Welfare, and Nutrition for all** – Better health is central to human happiness and well-being. It makes an important contribution to economic progress as a healthy population contributes more productively in the development of the state. Therefore, the present government has put the special impetus on building a sprawling primary healthcare infrastructure in the state through 7548 Sub Centers, 1147 Primary health centers, 28 area hospitals, and 13 district hospitals to ensure quality healthcare to every citizen in the state.
- **Excellence in sports for all citizens** - The State of AP has the vision to develop a sports culture that celebrates and promotes participation and excellence in sports for all citizens of AP. The bifurcation of the State of Andhra Pradesh presented an opportunity to embark on a new journey with new goals and inclusive philosophy under the vision to provide every citizen a Right to play, perform and peak.

#### **Unfortunately, the difficulties which ensued after bifurcation in 2014 -**

- With 67.66 literacy rate, Andhra Pradesh was at 31<sup>st</sup> position out of 35 states and union territories, as per census in 2011
- National Achievement Survey (NAS) 2014 & 2015 put Andhra Pradesh at 13<sup>th</sup>, 14<sup>th</sup> and 23<sup>rd</sup> in 3<sup>rd</sup> class, 5<sup>th</sup> class, and 8<sup>th</sup> class respectively.
- More than 80% of students studying in Govt schools were located in rural areas
- Comparatively higher dropout rates of 6.27%, 5.47% and 3.81% in Primary, Upper Primary & Secondary in 2015-16
- Lack of educational & research institutions of excellence in the state
- Lack of large-scale industrial base and employment avenues to the students
- Absence of reputed central institutions in the state
- Low employability levels of graduates from state institutions
- More than 70% of the total population (4,93,86,799) residing in rural areas
- Delays in Implementation: Due to a multitude of factors including non/partial computerisation, delay in the release of funds, lack of tracking and monitoring mechanism there were delays in scheme implementation & schemes spilled over to the subsequent financial years.
- Fragmented Deployment of I.T.: Deployment of technology, wherever made, was not end to end & thus ineffective, leading to poor outcomes.

- **Lack of Convergence:** The lack of convergence of schemes, for various initiatives in the context of tribal, rural and urban for nutrition specific and nutrition sensitive programs.

Bifurcation had drastically reduced the state's capabilities to provide essential development infrastructure to its citizens, leaving an arduous task for the present government to turn around the condition of Education, Healthcare, Welfare and Sports infrastructure in the state of Andhra Pradesh.

**In 2015, Government of Andhra Pradesh adopted Social Empowerment Mission and Knowledge Mission with the vision to transform the state into 'Social & Knowledge Capital' by systematic transformation of Education, Health & Welfare in the state.**

## **EDUCATION**

Budget Allocation for School Education has increased from Rs.12,595 Cr in 2014-15 to Rs.21,612 Cr. in 2018-19. Budget for Higher Education has Rs.3087 Cr in 2014-15 to Rs.3349Cr in 2018-19. The Overall budget allocated to the Education department has increased from Rs. 15,681 crore in 2014-15 to Rs. 24,961 crore in 2018-19.

## **SCHOOL EDUCATION**

To improve equity and quality of School Education in the state following policies and schemes were undertaken in School Education by the present government

### **1. ENROLMENT & RETENTION PROGRAMS**

Several enrolment drives such as Mana Vooru, Mana Badi, Badi Pilushondi were launched in the state to improve enrolment and retention of students. As a result, Gross Enrolment Ratio (GER) for Primary, Upper Primary and Secondary has improved to 85.61%, 83.96% and 79.15% (an increase of average 3-4%) respectively as per the Unified District Information on School Education (U-DISE) data of Andhra Pradesh for 2017-18.

To improve student retention and reduce dropout rates, Interventions such as Vidyarthi Nestham which included data analysis to identify dropout influence factors, AP-GER mobile application for ground truthing of household and UDISE data and mainstreaming through Residential & Non-Residential Special Training Centres (RSTCs & NRSTCs), Madrasas and Seasonal Hostels were undertaken and as a result, there has been a significant reduction in student dropout rates in 2017-18. Student dropout rates in 2017-18 have come down to 0%, 0.43% and 3.44% at Primary, Upper Primary & Secondary compared to rate of 6.27%, 5.47% and 3.81% in 2015-16.

The Teacher Pupil Ratio (TPR) in Andhra Pradesh is above the National average at 1:22 at

Primary Level and 1:27 at Secondary Level against the norm of 1:30 and 1:35 at Primary and Secondary levels respectively. Efforts have been taken to ensure School and Class level TPR through appropriate rationalization and consolidation of schools and better teacher deployment. Teacher recruitment has been taken up in 2014 whereby 9862 teachers were recruited and is proposed to recruit 7,729 teachers during 2018-19.

## 2.IMPROVING LEARNING OUTCOMES OF STUDENTS

Special efforts have been put on improving Learning Outcomes for Elementary and Secondary education as measured in Andhra Pradesh State performance ranking in the National Achievement Survey (NAS). There has been a significant improvement in AP rank and performance in NAS–2017 as indicated below. In Class 10, NAS, AP State performance is 1st in Mathematics 2nd in overall performance in all subjects. SSC pass % has increased from 91.16%in March – 2014 to 94.48% in March – 2018. There has been a significant improvement in AP rank and performance in NAS – 2017 as indicated below.

Class	Subject	Rank 2014-15		Rank 2017	Overall Rank 2017
<b>3rd Class</b>	Language	17	<b>13</b>	1	<b>1</b>
	(NAS 2014) Mathematics	9		2	
<b>5th Class</b>	Language	14	<b>14</b>	6	<b>5</b>
	(NAS 2015) Mathematics	15		5	
<b>8th Class</b>	Language	20	<b>23</b>	9	<b>8</b>
	(NAS 2014) Mathematics	26		7	
<b>10<sup>th</sup> Class</b>	Language	22	13	2	<b>2</b>
	Mathematics	4		1	

Sources: NAS 2014; NAS 2015; NAS 2017

SSC pass % has increased from 91.16% in March – 2014 to 94.48% in March – 2018. In Annual Status of Education Report (ASER), 2016, performance in Mathematics improved with at least 48.10% students able to do subtraction in 2016, against 39.70% in 2014.

Furthermore, measures such as the Online Student Performance Tracking System is put in place and assessment results are widely disseminated.

Interventions aimed at improvement of Student Learning Outcomes, specific remediation and improved teaching-learning methods are being implemented at scale and impact monitored, as discussed below:

- *Gnana Dhara* is a systematic Summer and Yearlong Remedial Programme designed to support poor performing students identified class wise in secondary schools. Summer Residential Remedial programme for students moving from Grade V to Grade VI and from Grade IX to Grade X was conducted covering over 46,000 students. Its focus is to strengthen basic concepts in the subject and pave way to raise interest among the learners to engage actively during the regular schooling. Low performing students are identified based on their performance in the Continuous Comprehensive Evaluation (CCE) and special remediation program is extended to them.
- The *Ananda Lahari Abhyasana* – a Multi-Grade-Multi Level teaching-learning program is being implemented in partnership with the Rishi Valley Education Resource Centre in 1342 Schools @ 2 Schools per mandal covering over 25,000 primary school students in two teachers primary schools.
- The *Teaching at Right Level* (TaRL) program is being implemented in partnership with *Pratham*, the internationally reported NGO that conducts the ASER Survey for primary school students to improve learning levels in Language and Mathematics. In all, 7746 schools and 2,75,702 students are covered in three (3) low performing districts – Anantapur, Kurnool, & Vizianagaram.
- In partnership with *Isha Vidya Foundation* in 3000 schools in Chittoor district, covering 1,57,763 children and 14,240 teachers, three (3) interventions - Happy Classroom, Magic English and Remediation programmes are being implemented for improving learning outcomes among slow learners.
- *Quality Teacher Training* modules are designed keeping in view the gaps identified in student learning levels as analyse by the various assessments tracked subject wise. Online teacher training programs are being provided.
- *Abhinandana* – Based on SSC examinations performance, 5480 School Head Teachers received Appreciation letters from Hon'ble CM, Hon'ble Minister for HRD, Sp. Chief Secretary & Commissioner, School Education. The *Abidnadana* initiative motivated and

propelled the Head Teachers to make special efforts to improve the SSC examination performance of their respective schools.

In order to encourage student performance, number and scale of Pratibha Awards for meritorious students in SSC Examinations have been enhanced 339 Medals @ of 30/District to 4026 @ of 6 Medals/Mandal. The scholarship amount is increased by 100% from Rs.10,000 given in 4 installments to Rs.20,000 given in one installment along with a Tablet, Merit Certificate, and Gold Medal

### **3. TECHNOLOGY IN SCHOOL EDUCATION**

Harnessing technology to improve the quality of education and classroom pedagogy has been one of the key priorities of the present government. In the last 4 years, 3640 Digital Classrooms have been set up. Also, 1217 Virtual Classrooms have been established with the aim to provide top quality education in schools in distant and remote areas. Digital Content, aligned to School Education Curriculum is being made available free of cost to all Government school students and teachers

Integrated Data Management Systems and other technology initiatives have been implemented in the School Education Department since 2014, such as:

- 100% Aadhar seeding of student enrolment and Teacher data
- Aadhaar enabled biometric attendance of Teachers in 41,601 schools covering over 1,78,000 teachers.
- Real time monitoring of Mid-Day Meal attendance covering about 35,00,000 students in 45,528 schools; enhanced quality of MDM by way of introducing serving of Egg for 5 Days, centralized supply of Dal, Oil etc.
- School Information Management System to support enhanced access information, services and dashboards for monitoring.
- Text Books with QR codes have been distributed.
- Computer Based Online Tests for admission, Teacher Eligibility, Recruitment Tests.
- Online Teacher Transfer System & AP e-Knowledge Exchange Portal is established for teacher professional development with online courses, forums and digital content repository.

#### **4.IMPROVING INFRASTRUCTURE**

Several Additional Class Rooms, Thousands of School Toilets were constructed supported by Corporate Social Responsibility initiative. Furniture is provided in 100% High Schools which are identified as SSC Examination Centers. Hybrid Annuity Model is being implemented at an estimated value of Rs.4848 crores for enhancing school infrastructure by way of Additional Class Rooms (33,145), Toilets, Furniture (40,665 schools), major and minor repairs to Government School buildings, etc. Large scale construction of school compound walls (Target - 21,249) and improvement of School Play Grounds is underway in convergence with Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS). Rs.100 crores have been allocated for School Toilet Maintenance.

#### **5.PROMOTING PHYSICAL LITERACY & SPORTS IN SCHOOLS**

Special programs are taken up to increase enrolment, attendance and to improve girls' education and their overall academic performance of. Specific programs include:

- Extending Grade XI and XII in Kasturba Gandhi Balika Vidyalayas (KGBVs)
- Badikosta program for distributing Bicycles to Grade VIII and Grade IX Girl Students. So far bicycles are distributed to 1,87,318 girl students. During 2018-19, it is proposed to distribute 3,81,142 bicycles
- Self-defence training for Girl students of Grade VIII and Grade IX.
- Provision of Sanitary Napkins to Girl Students
- Construction of 143 Girls Hostels to provide safe and secure places to stay and pursue higher secondary by Girl students.

#### **7. IMPROVING TEACHERS SERVICE CONDITIONS & BENEFITS**

Teachers are key to ensuring quality education to all students. In the last 4 years the Government has taken several policy initiatives to enhance and improve teacher service conditions, motivate and build their knowledge and skills and extend benefits to Teachers working in Government Schools, including:

- Upgraded 15,474 posts of Language Pandits and Physical Education Teachers to School Assistant (Language) and Physical Directors.
- Long pending grievance of Special Teachers appointed with Honorarium of Rs.398/- during 1996 are covered under Automatic Advancement Scheme with a additional budget commitment of Rs. 22 crores.
- Long pending grievance of "Haami Pathralu" teachers of DSC 2008 addressed and pay revision approved with financial benefit.



- Best Teachers awards selection systematised. The award amount is increased to Rs.20,000/- from Rs.3,000. A shawl, Tablet and Gol Medal are awarded to the Best Teachers.
- Performance Based Objective, transparent Teacher Transfer System is established.
- Inter-district transfers based on Spouse and Mutual basis approved benefiting a several hundreds of teachers.
- Rationalisation norms for teacher deployment improved giving 5 teachers for 80 and above enrolment in primary schools, minimum 9 teachers for High Schools with 50 to 240 enrolment, etc.
- Andhra Pradesh eKnowledge Exchange Portal (APeKX) is established for teacher professional development with online courses, forums and digital content repository.

## **8. AMMAKU VANDANAM**

“Ammaku Vandanam” Programme is being celebrated in every school, on Vasantha Panchami Day from the Academic year 2017-18 onwards, as declared by the Hon’ble Chief Minister, Govt. of AP at the National Women’s Parliament held at Amaravati with main intention to pay tribute to mothers and respect motherhood.

## **INTERMEDIATE EDUCATION**

- The Department provides free textbooks to students in Government junior colleges so as to make Intermediate Education more accessible. In 2018-19, over 15 lakh books were distributed to nearly 2.9 lakh beneficiaries.
- Govt. has sanctioned 248 works/Projects under RIDF 18,19,20,22 and 23 with an estimated cost of Rs.254.72 crores under RIDF NABARD Assistance to the Intermediate Education.
- Efforts are being made to introduce Digital Class Rooms and English Language Laboratories Govt. Junior Colleges in the State for the benefit of students.
- Steps are taken to distribute sanitary napkins to girls students in all Government/ Aided Junior Colleges in the State

## **HIGHER EDUCATION**

To make higher Education inclusive, quality and affordable following policies and schemes were undertaken in Higher Education by the present government:

## 1.BENCHMARKING INSTITUTIONS IN NATIONAL AND INTERNATIONAL RANKING FRAMEWORKS

Since 2016, Government of Andhra Pradesh has put forward a systematic approach towards assessment and evaluation of the standards and quality of the Educational Institutions. In this regard, massive exercises were undertaken in universities and colleges to prepare, apply and continuously improve their rankings and accreditation year on year.

Table. 1 - Status of rankings of universities & colleges in the state

	<b>Rankings</b>	<b>Current Status</b>
<b>State Universities</b>	NIRF National Rankings	6 state universities/ deemed to be universities have come in top 100 with Andhra University and Sri Venkateshwara University in top 50
	Times Higher Education	3 state universities have figured in top 300 rankings in Asia
<b>Colleges</b>	NIRF National Rankings	4 Degree Colleges have got rankings in top 200

Table. 2 - Status of accreditations of universities & colleges in the state

	<b>Accreditation since bifurcation</b>	<b>Improvements</b>	<b>Current Status</b>
<b>State Universities</b>	NAAC	3 universities namely, Dravidian University, JNTU Kakinada & Rayalaseema University got accredited for the first time in 2017-18	3 Universities namely, Andhra University improved from A to A+, JNTU Kakinada and Sri Padmavati Mahila University improved from B to A & Sri Venkateshwara University got accredited for the first time A+ in 2017-18
	<b>10 state universities out of 16 have received NAAC accreditation with 4 universities achieving A+ &amp; A grades</b>		
<b>Colleges</b>	NAAC	After bifurcation in 2014-15, 79 Degree colleges have been NAAC accredited	180 Degree colleges have been NAAC accredited with 41 colleges achieving A+ & A grades
	Colleges with potential for excellence (CPE)	After bifurcation in 2014-15, number of new CPE colleges added is 9	As on today, 18 colleges have been recognized by UGC as CPE

## **2. PRATIBHA AWARDS**

To encourage performance among students and teachers, Pratibha Awards and Best Teacher Awards are given. 9125 Pratibha Awards have been awarded to Meritorious Students and 295 Best Teacher Awards have been given to teacher for excellence.

## **3. ESTABLISHING NATIONAL, STATE AND REPUTED PRIVATE INSTITUTIONS**

The state government has put the special impetus on the establishment of national institutions and reputed private institutions in the state. The government, on its part, provided 2912 acres of valuable land and released Rs.131.33 crores for land acquisition and construction of 11 national institutions such as IITs, NITs, AIIMS etc. Till Academic Year 2018-19, Ten national institutions have started operations.

To facilitate the establishment of high quality, research oriented and industry relevant private universities, the present government enacted Andhra Pradesh Private Universities Act in 2016. Since then, Department of Higher Education has issued 11 Letter of Intents (expression of interest) to private institutions of good reputation in India and abroad such as VIT, SRM, Centurion, KREA etc to establish greenfield private universities in the state bringing quality education in technology, medicine and liberal arts to the students of Andhra Pradesh. The initiative is expected to bring investments worth Rs.11,360 crores with the student strength of over 1,72,982 in 10 years.

Six Institutes of Eminence (IOE) have been allotted to the state which will be provided with required autonomy and support to evolve into world class institutions in due course of time.

Foundation stone has been laid for the construction of Cluster University at Kurnool and Cluster University Act has to be passed by Government. About 7 new Government Degree College and a Polytechnic College have been sanctioned.

## **4. HARNESSING TECHNOLOGY & STATE-OF-THE-ART INFRASTRUCTURE TO TRANSFORM EDUCATION**

Andhra Pradesh government envisions to utilize technology and state-of-the-art infrastructure to improve access to quality education, evolve classroom pedagogy and

provide teachers and students an easier, faster and more affordable way to access learning resources.

As a result, the present government undertook the initiative to build digital and virtual classrooms in every college and polytechnics in the state. While there was no digital infrastructure in classrooms in 2014-15, Government due to its progressive policies and persistent efforts have equipped 46 Government Degree Colleges and Sixty two (62) Government Polytechnics are provided with Virtual Class rooms.. Industrial Seminars have been initiated through virtual class rooms. Polytechnics located in remote and non-Industrial areas are benefitted from these seminars. In the span of two months 20 Industrial seminars have been hosted by eminent Industrialists benefitting 7432 students from various branches in the Polytechnics. All the Government Polytechnics are equipped with Digital Class rooms.

Availability of quality teachers in remote areas has been the biggest impediment to the accessibility of quality Education in rural areas. Therefore, to combat this problem, Government has built 191 virtual classrooms in Government Degree Colleges which enable teachers to virtually teach students residing in distant or remote geographic locations.

For the first time in 2018-19, online admission have been taken up for Government and Aided Degree Colleges across the state making it easier, cost effective and transparent for student seeking admissions for UG courses.

## **5. CAPACITY BUILDING FOR HIGHER EDUCATION FACULTY**

During the year 2018-19, about 400 faculty members in GDCs have trained at NIT Warangal on Massive Open Online Courses MOOC/MOODLE/Kahoot/Plickers and Open Educational Resources (OER) to equip them to use these advance tools of teaching/learning. During training, content generation and course development is also being taught. This 400 faculty member will act as Master trainers and further teach other faculty and students across the state.

Faculty Recruitment: GOs have been issued -

1. State Universities: Total 1385 teaching posts ( Professor – 100, Associate Prof – 175, Assistant Professors - 1110)
2. Collegiate Education: 361 lecturers have been recruited (during 2018) and an induction training for 2 weeks have been arranged at APHRDI. And about 308 faculty members' notification is going to be issued shortly by APPSC.
3. Technical Education: 406 Lecturer posts.

## **6. RASHTRA UCHHATAR SHIKSHA ABHIYAN (RUSA)**

For strengthening infrastructure in the higher education under RUSA I, Rs. 247 crore were sanctioned as Infrastructure Grants. Under RUSA II Rs.128 crores were sanctioned as Infrastructure Grants to GDCs. There has been an increase in amenities for students with additional seminar halls, waiting room, toilets and sports facilities. As part of developing '**Green Campus**', renewable energy source has been utilized by installing 'Solar Equipment' in 47 colleges out of 56 which adds value to RUSA project in making eco-friendly campus. Other achievements include improvement in attendance by introducing biometric system in all RUSA colleges, setting up of Fibre Grid Network with 10 Mbps leased line & 100 Mbps Wi-fi Campus etc.

RUSA initiatives:

- i. 6 new model degree colleges with an outlay of Rs. 12 Crores.
- ii. One Cluster University at Kurnool with an outlay of Rs. 55 crore has been sanctioned.
- iii. Under RUSA phase II Rs. 128 crore has been sanctioned to various degree colleges
- iv. Andhra University and Sri Venkatswera University have been sanctioned 100 crore each and Rs.50 crore to Acharya Nagarjuna University and 20 crore to SPMV University

## **7. CREATING A WEALTH OF TRAINED HUMAN CAPITAL IN THE STATE**

8.66 Lakh beneficiaries have been covered over the last 4 years and 1,78,649 students and unemployed youth have been placed till now in the following training programmes conducted by APSSDC and Education Department –

- 131 Jawahar Knowledge Centres (JKCs) are established in the degree colleges across the state providing 250 hours of job-oriented training to students. In the various job fairs conducted, 18,727 of trained students have been offered placements.
- 40 Siemens Centres (6 Centers of Excellence + 34 Technology Skill Development Institutes) are established in polytechnics & vocational colleges training 67,246 students till now. Exclusive job fairs for Siemens trained ITI students have been conducted and 458 students have been placed till now.
- Cisco academies are established in 70 polytechnics providing technical training to students and teachers.
- Compulsory apprenticeship programs, internship opportunities, and skill development has resulted in drastic improvement in employability levels and employment opportunities for students.

- For Communication & Employability Skills, Andhra Pradesh Government partnered with the British Council to provide English Communication skills to 86000 students and 2000 teachers across the state. As a result, companies such as Concentrix have preferred trained students offering them better packages

## **8. JNANABHERI**

With a vision to transform Andhra Pradesh into a knowledge hub and to create a wealth of skilled human capital within the State, Hon'ble Chief Minister of Andhra Pradesh, Sri. N Chandrababu Naidu has visited various Higher Education Institutions to address ultimate beneficiaries of our education system i.e. the students and sensitize them towards the evolving role of Higher Education in improving the quality of life for the citizens of Andhra Pradesh.

The visit amongst other things aims at (i) Spreading awareness among the students regarding the state government's initiatives with respect to higher education, (ii) Gaining feedback from the students on the existing state of higher education and deliberating on a roadmap for the future, (iii) Promote a holistic development of students with emphasis on sports and extra-curricular activities, (iv) Create greater awareness among students about the social and economic return on investment in higher education, (v) Promoting a spirit of entrepreneurship among students.

Five state universities namely, Acharya Nagarjuna University (Guntur), Andhra University (Visakhapatnam), Krishna University (Krishna), Sri Venkateswara University (Chittoor) and Yogi Vemana University (Kadapa) have successfully organised the program with participation from 2,563 faculty members and 57,260 students.

## **9. OTHER INITIATIVES**

To provide an ecosystem to the students and the faculty to develop their scientific temperament and creative thinking "AP POLY TECH FEST " is introduced from 2018-19. At the District level 2771 projects were displayed and from among them 309 best projects were selected and displayed at State Fest held in Vishakapatnam on 23rd and 24th Sept-2018.

Efforts have been made to introduce new systems to improve the learning experience of Students. AP State is the first state to introduce Choice based Credit System in India in 2015-16. This give wide choice and freedom to students to acquire more credit and skills. This will encourage multi-disciplinary learning. Furthermore, the burden of studying has lessened with the introduction of semester system in the academic year.

25 new Market oriented restructured courses were designed and introduced in autonomous college from 2017-18 academic year onwards. Some of the prominent courses are Data Science, Internet of things, Aquaculture Technology, Seed Technology and Functional English. Polytechnic Curriculum has been revised and made Industry relevant from 2017. Six months compulsory Industrial Training has been introduced in the new curriculum.

### **TECH 2018 and Intelligent - HUB**

In 2017 and 2018, 3-day Transforming Education Conference for Humanity (TECH) was held in Visakhapatnam in 2017-18, organised by UNESCO MGIEP, and supported by the State Government of Andhra Pradesh and the MHRD, GOI under the theme - Digital pedagogies for building peaceful and sustainable societies. During the conference, a Partnership Agreement was signed between UNESCO MGIEP and Government of Andhra Pradesh for creation of AP Intelligent Global Hub for Digital Pedagogies (IGHDP) at Kummaripalem, Visakhapatnam. During 2018, the conference saw the participation of 50 countries and over 1000 delegates. The foundation stone of I-Hub has been laid in Visakhapatnam district by Hon'ble Chief Minister on 13th December 2018.

The **outcomes of the TECH 2018** are as follows:

- a. Launch of Samsung Smart Classes for all the B.Ed and D.Ed colleges,
- b. Launch first global universal screening app for Dyslexia: DALI,
- c. Announcement of Design University for Intelligent Global Hub for Digital Pedagogies;
- d. Adoption of Vizag Declaration calling for Guidelines on Digital Learning.

The **I-Hub** will be established with an investment of Rs.374 cr

### **HEALTH & FAMILY WELFARE**

The Government of A.P. is providing health services to the people through its various institutions and implementing various programmes to strengthen the health care delivery systems at all levels.

HMFWD Department has been providing primary health services in 7548 Sub centers and 1147 Primary health centers, Secondary health services through 195 Community Health Centers, 28 Area Hospitals, 13 District Hospitals, and Tertiary health services through 23 Teaching hospitals.



To strengthen the healthcare delivery within the state, the following are the major programmes/schemes that are being implemented by the Government : -

I. Public Private Partnership Programs/Services

**1. Talli Bidda Express:**

Talli Bidda Express, through dedicated vehicles, provides transportation services (from hospital to home) to new mothers who deliver at Government hospitals. This service provides safe and hygienic transportation and contributes in reduction of MMR and IMR. Postnatal women, child and one attendant are transported from Government facility to home.

Progress:

- ✓ 7,19,512 postnatal women have utilized Talli-Bidda Services since the inception of this program. A fleet of 279 vehicles is used across the state.

**2. NTR Baby Kit:**

To reduce Infant Mortality Rate (IMR), all the pregnant women who deliver in public health facilities are provided with NTR baby kit immediately after the delivery. The following items are included in baby kit:

- Baby wrap, Baby Towel, Antiseptic Lotion (for hand wash of the mother), Umbrella net
- A total of 6,91,489 have been provided so far.

**3. Chandranna Sanchara Chikitsa (CSC):**

CSC stands for "Primary Medical Care on wheels". Any village with no existing health facilities within 5 km radius (13,573 identified) is provided medical services on fixed days every month with the help of 292 Mobile Medical Units. Diabetes, hypertension, epilepsy, communicable diseases, ANC/ PNC checkups and other common ailments are investigated and treated.

A doctor, a nurse, a lab technician and a pharmacist are mandatorily available in the mobile medical unit. 50 types of drugs are dispensed and 9 diagnostic tests including ECG are

conducted

at

CSC.

Progress:

- 4,02,912 clinics have been conducted, 13,079,243 patients have availed these services
- 4,676,926 tests have been conducted, 10,489,515 medicines have been issued. CSC ensures availability and accessibility to medical services for the needy in remote villages.

**4. National Free Dialysis Program:**

The Dialysis Programme was rolled out in 2016 as part of the National Health Mission (NHM) to provide free dialysis services to the poor. In addition to the existing centers functioning with state support, dialysis centers are established in all the 13 districts through PPP mode, making quality services accessible to the kidney disease patients which otherwise is an unbearable expenditure to them lifelong.

Progress: -

- ✓ More than 1,09,601 sessions conducted till date with 5946 unique patients have utilized free dialysis
- ✓ In total 48 free dialysis centers are functioning across 13 districts in Govt sector

All Dialysis patients are provided a monthly pension of Rs 2,500/- under NTR Bharosa scheme. The pension facility has also been extended to patients undergoing dialysis in Private Hospitals empanelled under NTR Vaidya Seva.

**5. Mukhya Mantri Arogya Kendralu:**

State-of-the-art health care services including specialty services free of cost to Urban poor and Slum dwellers to reduce out of pocket expenditure and improve accessibility to quality healthcare which is available 365 days.

Teleconsultation is provided to those who need specialist medical consulting services including Cardiology, Orthopedic/ Rheumatology, General Medicine or

Endocrinology. This is followed by lab tests and dispense of drugs at the pharmacy. A total of 32 diagnostics tests including dengue, malaria and TB are carried out here.

Progress:

- 75,76,281 out patients are provided medical services and 7,17,881 tele consultancies are conducted
- 11,51,556 immunizations are completed
- Till date 22,13,658 biochemistry tests, 22,24,003 clinical pathology tests and 4,45,114 haematology tests have been conducted

**6. NTR Vaidya Pariksha (Laboratory services):**

NTR Vaidya Pariksha Laboratory Services aims at providing Free Diagnostic Tests to the patients visiting Government hospitals. This helps in increasing the patient care and reducing the Out of Pocket Expenditure for the beneficiaries. Currently, there are 105 Labs in operation which includes 7 Mother Labs & 98 Processing Labs spread across all the 13 districts. All 105 labs are ISO 9001:2015 certified and all the 7 mother labs have NABL Accreditation.

7 out of 19 diagnostics tests in PHCs, 12 out of 22 diagnostics tests in Tribal PHCs, 21 out of 42 diagnostics tests in CHCs and Area Hospitals and 40 out of 62 diagnostics tests in District Hospitals are done through NTR Vaidya Pariksha Lab services.

Progress:

- A total of 1,58,52,964 patients have availed the service till date
- A total of 5,92,88,725 tests have been carried out till date

**7. NTR Vaidya Pariksha - Tele Radiology X-Ray:**

Tele radiology services are provided through digitalization of X-ray film, transmission of the data through Licensed Software. In the remote hub a qualified radiologist will do the study and detailed report with digital signature will be sent back online to the institution. This facility is available in CHCs, Area and District Hospitals across the State in 113 locations.

Progress:-

- ✓ A total of 13,20,405 patients availed the service
- ✓ A total of 13,82,974 X-Rays were carried out

### **8. NTR Vaidya Pariksha - Tele Radiology CT Scan and MRI:**

CT Scan machines are installed under PPP mode at 15 locations and 5 centres are provided with tele-reporting facility. Further, 13 MRI scanners are being installed in District Hospitals and Teaching Hospitals. AH Paderu and AH Parvathipuram which are mainly serving Tribal population are also among these hospitals.

#### Progress: -

- A total of 1,33,674 patients have availed the service

### **9. Bio-Medical Equipment Maintenance Services:**

Bio-Medical Equipment Maintenance Services aims at providing 24 x 7 service support to medical equipment in all public health facilities. The service aims at ensuring an upkeep time of 95% for District Hospitals and Teaching Hospitals, 90% for CHCs and 80% for PHCs. Every medical asset is tagged to an asset identification number.

#### Progress: -

- ✓ Teaching/ Specialty/ District Hospitals have an uptime of 99% as against the target of 95%
- ✓ Area/ Community Hospitals have an uptime of 99% as against the target of 90%
- ✓ Primary Health Centers have uptime of 99.7% as against the target of 80%

### **10.108 Services:**

108 Emergency Response Service is a 24/7 free service for any emergency involving people. Toll Free number is accessible from landline and Mobile. There are total 468 ambulances for service. Salient features of the service:

- ✓ Hospital front desk was established in 19 hospitals – 8 districts and 11 teaching hospitals to facilitate continuum of care from ambulance to hospital

- ✓ Tab in ambulances to ensure e-patient care record and real time reporting of emergency patient details
- ✓ Provision of health sector skill council training certification for EMTs
- ✓ Uberisation of 108 services introduced with 177 private ambulances joined to the existing 468 fleet as on 27<sup>th</sup> December 2018.

### **11. Mukhyamantri e-Eye Kendram:**

This program aims in providing high quality eye care to affected population. 115 e-Eye centers have been established. This service is delivered in a hub and spoke model and services typically delivered through these centers include checking of Fundus, retinopathy, glaucoma, refraction. The beneficiary visits the nearest e- Eye clinic to get their eyes checked. A report is generated at the hub and treatment is initiated based on the report. Correction glasses/ spectacles are then provided free of cost based on the report recommendations.

Progress:

- 6,67,796 beneficiary visits, 6,25,932 refraction checks, 1,55,013 Fundus checks have been completed, and 4,55,522 spectacles have been issued

### **12. Linen and Laundry Services:**

Clean and hygienic bed sheets and pillow covers with seven different color codes for 7 days are supplied to Government hospitals in the state. This program covers 13,298 beds across the state, with 6,06,829 bedsheets. Bedsheets are replaced after 60 washes with new ones.

### **13. Mukhyamantri Bala Suraksha (RBSK):**

Mukhyamantri Bala Suraksha is an initiative aimed at screening children from 0 to 18 years for the 4 Diseases - Defects at birth, Diseases, Deficiencies and Development Delays including Disabilities. Children diagnosed with illnesses will receive follow up including surgeries at tertiary level, free of cost.

Process:

- 28 categories of equipment are available for head to toe screening

- Two medical officers (MBBS & AYUSH) and two ANMs in each team will conduct screening
- Child health details are captured in real time and electronic health record is maintained on dedicated website.
- Each child is provided with a dedicated health booklet for five years
- All the out of school children are also screened at respective schools and AWCs in the village on priority.

450 mobile health teams should cover 29,87,039 children from birth to 5 years at 55,606 AWCs and 40,10,869 students from 1st to 10th standard at 46,967 in Government and government aided schools and 2,21,122 students at 664 Government junior colleges.

#### **14.TB reduction through improved diagnostics:**

- Real Time Polymerase Chain Reaction (RTPCR) is highly sensitive and diagnose TB in more than 90% of the symptomatics and detects Rifampicin resistance within 1 hour, whereas the conventional methods take two months for detection of Drug resistance TB.
- By using RTPCR technology through TrueNat Machine, TB and drug resistance is diagnosed very early and by initiating early treatment the spread of the disease can be stopped.

#### **15.APeRx App:**

- Anti Microbial Resistance and Multidrug-resistant TB (MDR-TB) are most emerging problems now a days. Multi-drug resistant tuberculosis is created by inadequate or improper administration of TB drugs. Improper and irrational sale and dispensing of TB drugs is also one of the reasons for development of drug resistance. Government of AP has brought out an effective low cost solution for App – based prescription and App- based dispensing of Anti tubercular drugs.
- ApeRx is a Google Play store based application. It is an ePrescription and Dispensation platform for doctors and chemists where doctors prescribe the anti TB drugs and chemists dispense the same drugs as prescribed.

- This app improves Patient Safety, reduces the cases of lost prescriptions, improves medication adherence, enables auto maintenance of medication history – accessible to any doctor.
- So far 8300 chemists and 1850 doctors are dispensing drugs through this app as on 27<sup>th</sup> December 2018.

## **16. Mahaprasthanam:**

Dignified transportation of the dead bodies from the hospitals to the residence of the deceased within the state started since 20.06.2017. Presently 53 vehicles are placed in 11 teaching hospitals and 6 APVVP hospitals. A total No. of 30,671 trips and distance of 28,85,969 Km. have been covered by these vehicles.

## **17. Quality care in Hospitals:**

### **i. Hospital Sanitation & Monitoring System:**

A policy for scientific sanitation, security, pest & rodent control was started in June 2016 across the state covering 11 Teaching Hospitals, 11 Specialty Hospitals, 8 District Hospitals, 33 Area Hospitals, 3 MCH Centers and 2CHCs. A HSMS application is used to collate various checkpoints of measurable items and is then used to generate average sanitation scores.

- Sanitation & Hygiene level in the hospitals have improved more than 70% when compared to previous years
- 100% Negative Swab Cultures in all hospital structures, CFU (Coliform Units) better than Airport & Cinema Halls

### **ii. CHC sanitation:**

- ✓ A total of 115 CHCs have been brought under the sanitation program and remaining 80 CHCs would be covered in January 2019.

**iii. Facility management system (FMS) :**

Facility management system was introduced in all Teaching Hospitals in the State. These services consists of 428 front desk manager and Multipurpose Health workers. Who manage e-registration of OP, IP in the hospitals.

**iv. Auto-Disable Syringes:**

To ensure patient safety, Andhra Pradesh is the first state in the country to use auto-disable syringes for all clinical purposes starting from 16<sup>th</sup> August 2018. Auto disable syringe ensure that a syringe is used only once. This will help in strengthening and lowering burden of infections by breaking cycle of cross infection.

**v. Green Hospitals (Solar Roof Top in Hospitals) :**

- HM&FW Dept have signed a tripartite agreement with NREDCAP and two service providers empanelled by SECI (Solar Energy Corporation of India) on 25-02-2018 during CII Partnership Summit 2018 to take up solar roof top projects under RESCO route, without any investment by the Department.
- 8 MW capacity projects have been proposed in the first phase covering 23 Area Hospitals & 22 Teaching Hospitals covering all 13 Districts.
- With Zero investment from HM&FW Dept, there will be Savings on Electrivity Bill expenditure of Rs 4 Crore per annum. Further, the projects contribute to reduction of 7350 tons of CO2 per annum or 1.84 lakh tons over a period of 25 years.

**vi. NABH Accreditation for 15 hospitals:**

To enhance healthcare delivery system and promote continuous quality and patient safety based on national and international standards through process of self and external evaluation, Govt. Of AP has entered MOU with Quality council of India, for accreditation of 15 Teaching hospitals under DME, AP. 8 hospitals have completed pre-assessment for NABH.7 Hospitals are performing internal self-assessments and preparing for pre-assessment.



**vii. NQAS (National Quality Assurance Standards) for DH/AH/CHC:**

National Quality Assurance Standards are the set of standards envisaged to improve quality healthcare delivery in the public health facilities under NHM as per Operational Guidelines for Quality Assurance 2013. Quality Assurance Programme started in 2015-16, NQAS is an Accreditation on par with NABH, recognized by The International Society for Quality in Healthcare (ISQua).

Till date, 6 out of 7 District hospitals, 13 out of 34 Area hospitals, 2 out of 3 Mother and Child Hospitals) have been assessed by NHSRC and Certified by MoHFW, GoI. For FY 2018-19, 65 more facilities are in pipeline for certification.

**viii. Medical Oxygen for Teaching Hospitals :**

For uniform supply of uninterrupted Medical Oxygen State wide policy was adopted and MOU was signed (for all teaching hospitals in the State of Andhra Pradesh under PPP mode with effect from September 2018). Service provider will ensure uninterruptable supply of Liquid Medical oxygen (LMO) to all teaching hospitals in the State of Andhra Pradesh and also responsible for the operation, management and maintenance of the medical oxygen supply system.

**E-Aushadhi –Online Supply Chain Management of drugs:**

e-Aushadhi is a complete online supply chain management for procurement and distribution of medicines and surgical items. The entire process of raising demand, placing purchase orders, supply, receipt and disbursement is done on-line in a most transparent manner. Buffer stocks of every item is kept in the central drug stores which is approximately three (3) months requirement. This buffer stock is used in emergency situations and in cases where the supply is delayed, or the requirements is enhanced. The software is implemented in about 1855 institutions of the health department, mobile medical units and eUPHC.

Free Drugs Policy in Andhra Pradesh

- Increase of Essential Medicine List has been increased from 564 (2014-15) to 751 (2018-19).

Drug Budget has been increased from 194.8 crores (2014-15) to 402.56 crores (2018-19). Also the number of beneficiaries is increased from 1.1. crores (2014-15) to 2.65 crores (2018-19).

### **SADAREM Programme – Business Process Re-engineering :**

The existing system of issuing disability certificates was entirely revamped by Business Process Re-engineering to enable beneficiaries get certificates without any hassles and intermediaries. 55 hospitals have been identified speciality wise as SADAREM centres and 589 specialist doctors are provided with digital Keys. Certificates are issued every Friday between 12.30PM to 4.30PM.

### **Blood Transfusion Services:**

13 Blood collection and transportation vehicles are functioning across the state. Improved voluntary blood collection is from 73% (2014-15) to 83% (2018-19). The totals blood collection increased from 4,33,112 units (2014-15) to 5,24,523 units (2018-19) . AP Blood Cell App has been introduced and is functioning. So far, 30,426 users are actively using the app. The number of blood banks have increased from 110 (2014-15) to 147 (2018-19) and Blood storage centers from 54 (2014-15) to 104 (2018-19).

### **ANM Digi-Digital Job Aid to ANMs replacing manual registers:**

- ANMs can use this application to screen members of a community for conditions such as Pregnancy, Communicable and Non-Communicable Diseases, Immunizations, Family Planning etc.
- It integrates with PrajaSadhikara Survey of GoAP and RCH portal of Gol.
- Helps the officials in managing day to day work eliminating the need of multiple applications and reducing/ Eliminating paper work. Multilingual App including Telugu language ensuring ease of use
- 12,500 New Tablet PCs is provided to all ANMs along with biometric facility, GPS tracking, mobile device management and ANM Digi across the state in last week of October.

### **Health and Wellness Centers:**

The concept of Health and Wellness centers is to provide comprehensive healthcare, well-being and easy access to the community. A total of 365 Health and Wellness Centers are established in the state of AP for screening -

1. Cervical Cancer
2. Oral Cancer
3. Breast Cancer
4. Diabetes
5. Hypertension
6. Vision
7. Hormonal disorders

### **Andhra Pradesh MedTech Zone:**

AMTZ has been dedicated to the nation by the Hon'ble Chief Minister on 13th December, 2018. The zone has developed as excellent eco system for medical devices manufacturing and has also developed the backward and forward linkages, which includes the process of testing of medical equipments, certification, regulation, marketing as well as research and development backup.

10 National organizations / centers were brought to the zone by pursuing with different ministries in Govt. of India. They are as follows:

(i) 10 National Organizations/Centres:

1. Kalam Institute of Health Technology (Ministry of Science & Technology);
2. Government e-Market place medical equipment cell (Dept. of Commerce, Govt. of India);
3. Bio-Engineering Patent Cell (Controller of Patents, Govt. of India);
4. National Institute of Design Cell (DIPP, Govt. of India);
5. National Medical Device Promotion Council (DIPP, Govt. of India);
6. Medi-Valley Incubator (Niti Ayoge);

7. Bio-Valley Incubator (DBT, Govt. of India);
8. Regional Hub for HTA (Dept. of Health Research, Govt. of India);
9. Directorate of Radiation Safety (AERB);
10. Indian Biomedical Skill Council (Ministry of Skill Development);

In addition to this

(ii) 4 International Centers / Secretariats was also brought to the Zone.

1. International Society of Pharmacovigilance (ISoP) – Sweden / UK;
2. ECRI Institute – USA;
3. Joanna Briggs Institute – Australia;
4. WHO pre – qualification cell – WHO Geneva

In addition to this

Scientific Industrial Laboratories and Centres are also established in the Zone and manufacturing companies have also come to the zone.

- With this, AMTZ is now known as the Medical Technology Capital of India.
- The 4th WHO Global Forum for Medical Devices was hosted successfully from 13-15th December, 2018 at AMTZ. It was attended by over 1049 delegates from over 90 countries.

## II. **Infrastructure**

### i. **Expenditure on Infrastructure**

The APMSIDC is an executing agency which takes-up construction of all medical buildings from Sub Centre to Medical College and along with repairs and renovations to the Hospitals and the details of the sanctions are as detailed below:

**1. NABARD XX, XXI, XXIII:**

- 94 works with an estimated cost of 447.88 crores was sanctioned for strengthening / upgradation / construction of Hospitals and works grounded.

**2. MCHs under NHM:**

- 14 works with an estimated cost of Rs.177.59 crores was sanctioned under NHM and grounded
- 83 works with an estimated cost of Rs.97.94 crores was sanctioned for PHCs under NHM and completed

**3. Face lift works (Dr NTR VaidyaSeva )**

- 221 works with an estimated cost of Rs.142.02 crores was sanctioned for improvements of teaching hospitals, district hospitals, area hospitals and Community Health Centers and completed.

**4. DME Plan works:**

- 38 works with an estimated cost of Rs.670.25 crores was sanctioned for improvements of teaching hospitals, district hospitals and area hospitals including 2 medical colleges at Nellore and Padmavati Medical College, Tirupati and grounded.

**5. NABH**

- Upgradation of Infrastructure in 15 teaching hospitals sanctioned for Rs.167.70 crores and grounded.

**III. Special Focus on Tribal areas (TRY)**

**1. Round the clock primary care services in tribal areas:**

153 PHCs in tribal areas are converted to 24 X 7 and provided 604 additional staff with includes 84 MO, staff nurses, class IV and support staff. The line of drugs available at these PHCs has been increased to 160 from 125 and the number of high end diagnostic tests has also been increased to 11 from 7.

**2. Sick new born care units (SNCU) mini:**

5 bedded SNCUs,with Pediatrician and 5 staff nurses, in 18 CHCs and 3 AHs are established in ITDA areas, to provide care to sick new born and reduce IMR. 28 categories

of equipment are available for neonatal care and all drugs and consumables at free of cost. Maintenance of EHR and real time capturing of services is done. With this all 26 AH & CHCs in Tribal areas are having SNCUs.

### **3. Mukhyamantri Giri Arogya Kendralu (e Sub Center):**

40 sub centers located in interior and 6- 9 KMs away from the road points (20 in ITDA Paderu and 10 each in ITDA Rampachodavaram and ITDA Parvathipuram) are converted into E sub centres with medical officer services on telemedicine mode and drug vending machines for drug dispensing with the help of the ANM are established.

### **4. Feeder Ambulances:**

To shift the patients from remote and inaccessible ITDA areas to nearest 108 ambulances, 122 Feeder Ambulances services are initiated in 7 ITDAs. These feeder ambulances are intended to save the time to reach in shifting the patient to 108 ambulances and save the lives of the critical patients and pregnant women. The Pilot is trained in emergency health management techniques and to use the golden hour to save the patient life. These feeder ambulances were equipped with lifesaving drugs and surgical consumables and the details of services and monitoring of fleet movement is captured on real time.

#### Progress:

- 20,241 cases have been transported using 108 Bike Services with a total of 2,02,143 km has been travelled by the 108 bikes.

## **IV. Improved Maternal Care**

### **1. District Hospital Strengthening & Obstetric ICUs**

Seven District Hospitals are being provided with state of art 20 bedded Hybrid ICU / HDUs along with equipment and manpower. Obstetric ICU/HDU is provided at 6 high load delivery centres. A 50 bedded MCH centre is sanctioned to Adoni. Three more hospitals at Kandukur, Kadiri and Vinukonda are being equipped with high end Obstetric equipment. 145 Labour Rooms in CHCs are being strengthened by equipping them with additional equipment.

## **2. Gynaec units:**

In Teaching Hospital - a milestone in the medical education i.e. 19 units of OBG with 570 beds were sanctioned in 7 colleges with 19 Professors, 19 Associate Professors and 38 Assistant Professors.

## **V. Universal Health Coverage**

### **1. NTR Vaidya Seva:**

With a view to provide enhanced & strengthened services under DR. NTR Vaidya Seva, Government is implementing 1044 (873 Surgical and 171 Medical) procedures to the poor people who are Below Poverty Line in 455 empaneled hospitals. The total number of patients benefited under the Trust is 12,00,706 with expenditure of 5,330 crores as on 2018.

### **2. Arogya Raksha:**

To attain Universal Health Coverage in Andhra Pradesh, Govt. of AP has started a scheme "**Arogya Raksha**" for all APL families with Premium of Rs. 100/- per head per month. All the members of the family have to be enrolled. Rs 2.00 Lakh is the entitlement for an individual per annum through over 900 Government and Corporate Network Hospitals for 1044 procedures. 15197 members have availed this services with Rs.38.49 crores.

### **3. Employees Health Scheme:**

The State Government has introduced employee health schemes to provide health coverage to the state government employees, pensioners and their dependents. The premium contribution is 50:50 between the state government and employees or pensioners. The financial coverage of Rs. 2.00 Lakh is entitled for the employee or pensioner through government and Corporate Network Hospitals for 1885 procedures. The total number of patients benefited under the scheme is 2,80,207 with expenditure of 860 crores as on 2018.

#### **4. Working Journalists Health Scheme:**

The State Government has introduced Working Journalists Health Schemes to provide health coverage to accredited journalists identified by I&PR Department. The premium contribution is 50:50 between the state government and journalists. The financial coverage of Rs. 2.00 Lakh is entitled for the beneficiary through government and Corporate Network Hospitals for 1885 procedures. The total number of patients benefited under the scheme is 7601 with expenditure of 2.70 crores as on 2018.

#### **5. Amaravati Residents Health Scheme:**

The residents within the Amaravati capital city area who are residing as on 08.12.2014 shall be provided free medical facilities subject to certain conditions as stated therein and the scheme shall be implemented by Dr. NTR Vaidya Seva Trust. The Trust is providing services under this scheme to the residents of CRDA region covering 37,569 families on the guidelines of Dr. NTR Vaidya Seva Scheme.

#### **6. NTR Cancer Care Trust:**

NTR Cancer Trust is registered by Govt. of AP to establish cancer care centers in all the districts

of Andhra Pradesh under PPP.

#### **7. Clinical Audit:**

To ensure quality in healthcare services and to bring transparency, the Govt. of AP has initiated clinical audit through third party agency. 2 (two) percent of claim paid cases in both public and private empanelled hospitals will be audited.



**VI. Out of pocket expenditure:**

Out of pocket expenditure on health is defined as the payment made by the user at the point of service for seeking healthcare. It is one of the measure of Universal health coverage which means affordable, accessible and equitable healthcare. The survey is designed with a specific to capture utilization and expenditure details of sickness or disease with special focus on chronic illness; treatment underwent (out-patient, inpatient, and delivery) with type of public or private provider; expenditure incurred against service delivery for the components like: service fee/consultation fee, medicines, diagnostics, transport, other expenditures for lodging, attendant etc.

- ✓ Baseline survey was conducted in 2015. Various interventions in health sector has been launched in January 2016. To capture change the end survey was conducted in August 2017 i.e. after 20 months of interventions
- ✓ This survey was conducted in selected 26 villages and 14 urban areas across all 13 districts

S.no.	Total out of pocket expenditure(OOPE) per capita per annum	2015 (INR)	2017 (INR)	Change (2015 to 2017)	2018 (INR)	Change (2017 to 2018)	Change (2015 to 2018)
1	Per capita OOPE on Healthcare	5770	1205	-79%	587.31	-51%	-90%
2	Per capita OOPE on healthcare- medical	5062	1104	-78%	336.56	-70%	-93%
3	Per capita OOPE on laboratory	860.54	388	-55%	80.12	-79%	-91%
4	Per capita OOPE on medicines and consumables	2531	486	-81%	135.07	-72%	-95%

### **Key findings from Major Indicators:**

- ✓ The per capita OOPe on healthcare reduced by 79%, i.e., from 5,770 (2015) to 1,205 (2017)
- ✓ OOPe on laboratory tests reduced by 81.25% in Government facilities (861 in 2015 to 388 in 2017) and by 53.5% in private facilities (820 in 2015 to 381 in 2015)
- ✓ Average OOPe for C-Section deliveries reduced by 55.4% in Government facilities (1,451 in 2015 to 646 in 2017) and by 32.3% in Private facilities (37,494 in 2015 to 25,386 in 2017).

### **VII. Budget Allocation For Health:**

1. The budget for the health department was **Rs. 4,387.94 Crores** for the financial year 2014-2015. This has nearly doubled (increased by 93%) for 2018-2019 with **Rs. 8,463.51 Crores**.

### **VIII. Special Focus on Communicable Diseases and Non-Communicable Diseases**

#### **1. Non-Communicable Disease Management**

#### **Master Health Check-up: -**

MHC program is for screening of men and woman above 30 years for early detection on 7 major non-communicable diseases namely oral cancer, cervical cancer, breast cancer, prostate cancer, diabetes, hypertension, vision, hormonal disorders. 12,000 ANMs are trained for screening for the above mentioned NCDs. Any suspected case is referred to 57 identified referral hospitals for diagnosis and treatment.

#### **Progress: -**

- ✓ 19,93,727 screened till date, all screened men and women are provided Health card
- ✓ 59,019 were referred to 57 identified referral hospitals for diagnosis and treatment

- Districts, mandals and villages with highest prevalence of the mentioned diseases are identified for policy and administrative interventions, i.e., brown rice was introduced in the top 57 mandals with high diabetes prevalence.

## **2. Communicable Disease Management:**

### 1. For Malaria:

- a. During the period from January to December (Till 17<sup>th</sup>December), in 2017, a total of 16,147 malaria cases have been registered in the state, whereas in 2018, a total of 5,629 malaria cases have been registered during the same period. 2018 has registered 65% lower than cases registered in 2017 in the same period.

### 2. For Dengue:

- a. During the period from January to December (Till 17<sup>th</sup>December), in 2017, a total of 4,665 dengue cases have been registered in the state, whereas in 2018, a total of 3,895 dengue cases have been registered during the same period. 2018 has registered 16.5% lesser than cases registered in 2017 in the same period.

25.02 lakhs long lasting impregnated nets were distributed in all the ITDA areas and high risk plain areas of all the districts. Screening tests for malaria are available up to the level of ASHA. Screening for dengue is done at all PHCs. All the positive cases are referred for confirmation by MAC ELLISA test in all the district hospitals and teaching hospitals. H1N1 testing facility is now available across 18 centers in all the districts.

## **IX. Health Education:**

### **1. Health Bulletin:**

State, district and village level health bulletins were launched on March 4, 2018. The main objective of this bulletin is to educate the people of Andhra Pradesh about the major health problems that are prevalent in the region and to help them to take necessary precautions to stay healthy. The bulletins also aim at creating awareness amongst the people about health programs and services that they can avail at various public facilities free of cost. It is also used to communicate health tips that ensure prevention of seasonal diseases. The subsequent editions of these health bulletins are being launched on the 7th of every month.

## **2. Swasthya Vidya Vahini:**

Swasthya Vidya Vahini is a health education program launched on 24.12.2016 by the government where a team of two medical students are allocated to each village. The team works in collaboration with various departments including Panchayat Raj, Anganwadi Center and school to develop a village health status report.

### **Progress**

Since inception of this program

- 119 colleges are participating in this program
- A total of 11,721 students have registered for this program
- A total of 13,903 villages were covered as a part of this program

Survey results from West Godavari show that about 80% of population has good knowledge levels on WASH, whereas 70% of population is practicing and have awareness on the same.

### **X. Medical Education:**

The number of under graduate seats in 11 government Medical Colleges is 1750 and 2050 in 18 private medical colleges. 140 BDS seats in government dental colleges and 1300 in private dental colleges. Last year there is an increase in PG intake by 138 and now the number of post Graduate seats is 831 in government side and in private side 894 seats. In addition to the above, 62 Super Specialty seats are also available.

For early operationalization of AIIMS a temporary campus is being established in Siddhartha Medical college to start with 50 MBBS Seats. The government of AP sanctioned 6 Crores to enable establishment for Infrastructure. The classes started from 30-08-2018.

#### **A. Training / Observership Programme for MD / MS Postgraduates**

The HM&FW department has entered into MOU with Sri Satyasai Institute of Higher Medical Sciences of Puttaparthi to send MD/MS post graduates from the Government Medical Colleges for short term training (Observership) programme in Super speciality branches on rotation in nine (9) departments like Cardiology, CTVS, Plastic surgery, Urology, Ophthalmology, orthopaedics, anaesthesia, Radiology and Pathology. About 350 postgraduates will be benefitted from this programme.

## **B. DNB:**

The HM&FW department have started DNB programs which is presently conducted in 3 District Hospitals viz DH Vizianagaram, DH Eluru and DH Nandyala under which 50 Post Graduates students are getting trained in different specialities.

## **C. Visakha Institute of Medical Sciences (VIMS):**

G.O.Ms.No.224, HM & FW (C2) Dept., Dt: 30.11.2018 has been issued for the establishment of Visakha Institute of Medical Science (VIMS) as a 400-bedded premier institute of Medical services and Medical Education with 874 posts sanctioned.

## **AYUSH**

The AYUSH Department provide its services through 729 Dispensaries and 4 Teaching Hospitals. A mini pharmacy at Dr. NRS Govt. Ayurvedic College, Vijayawada is established with 14 specialist doctors, 13 Yoga instructors for School Health Program, 1 Supervisor and 6 workers. The Department also publishes "AYUSH Vignana".

## **Knowledge Command Center (KCC):**

KCC is the data analytics wing for the Health, Medical and Family Welfare department, Government of Andhra Pradesh. It is dedicated towards

- Disease surveillance of CD & seasonal diseases
- Identify incidence of major NCD till village level
- Predictive analysis of CDs & NCDs
- Evaluation of PPP programs to identify gaps in healthcare delivery
- Identify KPIs that need intervention at district administration level
- Track the performance of private health providers in a given period
- Evaluate the state health indicators based on 100 KPIs
- Provide the bottom performing KPIs for districts to improve upon
- Analytical analysis of hotspots for mitigating MMR and IMR

## **XI. Memorandum of Understanding to provide better quality healthcare**

- 1) Uddanam Kidney Research Center with George Institute for Global Health, New Delhi established at VIMS, Visakhapatnam to study, test, operationalize preventive approach for CKD of undermined Etiology (CKDu) in AP.

- 2) Health Sector Skill Council to train and provide certification by conducting the online examination for all the technicians and paramedics working with Service Providers of various PPPs implemented in AP.
- 3) CSIO partnership for Bio-medical equipment for finalization of BER equipment for condemnation.

## XII. **Centers of Excellence under Implementation**

1. State Cancer Center at Kurnool is sanctioned with 120 crores.
2. Visakhapatnam Center of Excellence for mental health care is sanctioned.
3. NACO GoI, MoHFW has given approval to Govt. Of AP to establish center of excellence at Siddartha Medical College, Vijayawada. It is made functional from 1<sup>st</sup> December 2018 and 20 PLHIV were initiated on 3<sup>rd</sup> line ART. CoE is expected to provide 3<sup>rd</sup> line ART services to 2000 PLHIVs in over an year.

## XIII. **Knowledge Partnership with Institutions of Excellence**

The HM&FW Department in order to boost the performance of various PPP programs have entered into MoUs with various knowledge partners aiming to ensure quality implementation of the programmes. These Institutions conduct independent evaluation of the programme and give inputs to improve quality and efficiency of programmes.

S.No.	Programme	Knowledge Partner
1	Biomedical Equipment Maintenance	CSIR –CSIO, Govt.of India
2	Hospital Sanitation, Rodent & Pest Control, Security Services	Sulabh Academy (IAESPH)
3	electronic Urban Primary Health Centres	PGIMER, Chandigarh
4	NTR Vaidya Seva, EHS & Arogya Raksha	ACE Health
5	NTR Vaidya Pariksha	WHO

6	Chandranna Sanchara Chikitsa	Centre for Public Health,Tata Trust
7	Maternal, Child Health & Comprehensive Health Index	TERI
8	Free Dialysis	George Institute of Global Health, New Delhi
9	108 services	PGIMER, Chandigarh
10	Thalli Bidda Express	PGIMER, Chandigarh
11	Tele Radiology	PGIMER, Chandigarh

#### XIV. **Human Resource:**

A total of 5523 medical, paramedical and class IV are recruited in last three years on regular/contract/outsourced basis.

Further the government has permitted recruitment of 205 CAS specialists through APPSC, 155 CAS specialists and 35 DAS under APVVP and 1171 CAS for regular recruitment under Director of Public Health and DME through department.

Government has also enhanced the Salaries of contractual and out Sourcing Employees of Medical, Para Medical and Non-Medical. Government has enhanced Honorarium of ASHA workers from performance based to fixed honorarium of Rs. 3000/- per Month and performance based to a limit of Rs 5600/- per month and a total of upto Rs.8600/- Per Month.

#### XV. **World Bank assisted projects:**

##### **A. e Sub Center:**

To provide assured qualitative health care services by a Medical Officer through Telemedicine at the door steps of Sub-Centers by leveraging Technology.

The main components for the e-Subcenter includes – 1) Multi-para monitor machine (7 tests), 2) Drug Vending Machine (40 drugs dispensing capability), 3) Desktop with Tele Conference equipment, 4) Internet Connectivity, 5) Hub with doctors (zone-wise) and 6) Refurbishment (minor civil repairs, painting, toilet provision with water supply etc.) of Sub-centers whenever necessary.

**XVI. Awards (Recognition of Quality Services):**

The department has received awards both at national and international level for its excellent performance in different categories.

**Table of Awards:**

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
1	Innovative Medtech Zone award- 2017 (International Listing)	Andhra Pradesh MedTech Zone Ltd.	World Health & Wellness Congress & Awards	14th February 2017	Innovative Medtech Zone award was given to AMTZ for most innovative medical technology ecosystem to cater to the needs of industry specially in India where import dependency



<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
					is 90% for medical equipment
2	Skoch Platinum Award	Health Medical & Family Welfare Department, Govt of AP	Skoch Swasth Bharat Award	March 2017	1st Best Performing State in Health
3	Skoch Platinum Awards	Swasth Vidhya Vahini	Skoch Swasth Bharat Award	March 2017	Providing Health Education by Medical Students in rural Areas
4	Skoch Platinum Awards	Inventory Management	Skoch Swasth Bharat Award	March 2017	Best tracking of medicine disbursement through online
5	Skoch Platinum Awards	Bio-medical Equipment Maintenance	Skoch Swasth Bharat Award	March 2017	Best maintenance of equipments in Public Health Facilities

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
6	Skoch Platinum Awards	Mukhya Manthri Aarogya Kendralu	Skoch Swasth Bharat Award	March 2017	Innovative outreach of Health Facilities in Urban Areas
7	Skoch Platinum Awards	Free diagnosis policy NTR Vaidhya Pariksha	Skoch Swasth Bharat Award	March 2017	Providing free laboratory services to the population of Andhra Pradesh
8	Leader Ship award – Health Care Summit	Health Medical & Family Welfare Department, Govt of AP	Health Care Summit	June 2017	Overall Performance, initiatives & Innovatives in Health
9	FICCI Award for 2017 under FICCI	Patient Centricity (Public Hospitals)	FICCI	June 2017	Best State for providing cleanliness in Hospitals
10	1 <sup>st</sup> Prize for IPD services among Big States, National Summit Best	IPD Services	National Summit Best Practice Good and Republic	June 2017	1 <sup>st</sup> Prize for IPD services among Big States

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
	Practice Good and Republic Practices and Innovation, Gol		Practices and Innovation, Gol		
11	Best award for Good Practice titled "TB Reach-Wave 4 project" National Summit Best Practice Good and Republic Practices and Innovation, Gol	TB Reach Wave 4 Project	National Summit Best Practice Good and Republic Practices and Innovation, Gol	June 2017	Eradication of TB in Andhra Pradesh
12	Awarded for "Innovation in Increasing Affordable access by a state Government" Express Public Health Awards	Innovation in Increasing Affordable access by a state Government	MoHFW, GOI	June 2017	Innovation in Increasing Affordable access by a state Government

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
13	Excellence Award for Extending Public Healthcare Services to the Remotest and Last Mile of the State	Extending Public Healthcare Services to the Remotest and Last Mile of the State	MoHFW, GOI	June 2017	Extending Public Healthcare Services to the Remotest and Last Mile of the State
14	Awarded for Most Effective – “PPP Diagnostics” Express Public Health Awards	Diagnostic Services	MoHFW, GOI	July 2017	Providing free laboratory services to the population of Andhra Pradesh
15	Award for Maternal Health Survival 2 <sup>nd</sup> Prize, National Summit Best Practice Good and Republic Practices and Innovation, Gol	Maternal Health	National Summit Best Practice Good and Republic Practices and Innovation, Gol	July 2017	Providing Maternal Health Care services for the population of Andhra Pradesh

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
16	Best award on Implementation of Diagnostics Services in the State, National Summit Best Practice Good and Republic Practices and Innovation, Gol	Diagnostic Services	National Summit Best Practice Good and Republic Practices and Innovation, Gol	July 2017	Providing free laboratory services to the population of Andhra Pradesh
17	Skoch Gold Award	Chandranna Sanchara Chikitsa	Skoch Swasth Bharat Award	March 2018	Providing Health services in rural Areas
18	Skoch Gold Award	Health Medical & Family Welfare Department, Govt of AP	Skoch Swasth Bharat Award	March 2018	1 <sup>st</sup> Best Performing State in Health
19	Kayakalp Awards – 2017-18 – State Level, 3 District Hospitals & 4	DHs - Eluru, Vizianagaram, Machilipatnam	MoHFW, GOI	April 2018	Best Secondary Hospitals which follows

<b>SI No</b>	<b>Name of the Award</b>	<b>Awarded To Individual/ institution Name</b>	<b>Awarded by Agency</b>	<b>Date of award</b>	<b>Award given for excellency in</b>
	State Hospitals	AHs - Hindupur, Atmakur, Tanuku, Nuzividu			Kayakalp Procedure
20	NQAS (National Quality Assurance Standards) Award for 3 District Hospitals & 3 Area Hospitals	DHs - Machilipatnam, Nandyal & Eluru AHs- Tanuku, Kavali, Kadiri for National Quality Assurance Standards	MoHFW, GOI	April 2018	Best Secondary Hospitals which follows National Quality Standards
21	Best Usage of ICT in rural services	Chandranna Sanchara Chikitsa	Businessworld Digital India Award	June 2018	Providing Health services in rural Areas
22	Best Mobile App for citizen services	ANM Digi	Businessworld Digital India Award	June 2018	Best Mobile Application to provide various Health

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
					services to citizens
23	PMSMA 'I Pledge for 9' Achievers Award	Health Medical & Family Welfare Department, Govt of AP	MoHFW, GOI	June 2018	States with maximum proportion of Pregnant women reached under PMSMA among NON EAG states.
24	American College of Clinical Engineering (ACCE)-2018 international award	Andhra Pradesh MedTech Zone Ltd.	American College of Clinical Engineering (ACCE)	2nd June 2018	ACCE-HTF International Organization Award is given to an organization outside the United States and Canada that has demonstrated significant improvements in Clinical

SI No	Name of the Award	Awarded To Individual/ institution Name	Awarded by Agency	Date of award	Award given for excellency in
					Engineering and Medical Technology globally

## **WOMEN, CHILDREN, DIFFERENTLY ABLED AND SENIOR CITIZEN WELFARE**

The strategy adopted to overcome the challenges posed by the bifurcation & to achieve the outcomes mentioned in the Vision 2029 document is detailed, as hereunder:

### **1.NUTRITION SERVICES**

- The government has introduced 'Balamrutham' for the <3 years age group children
- Scaled up spot feeding of pregnant and lactating women from 153 ICDS projects to 257 projects across the state
- The government has launched State Nutrition Mission (2016-2026) with a focus on reduction of Infant Mortality Rate and Maternal Mortality Rate in the state
- The state has developed a dedicated document for the approach in 'multi-sectoral nutrition action plan' towards malnutrition free villages
- All the commodities under Supplementary Nutrition Program are linked to Electronic Point of Sale (ePOs) and supply chain management has been stabilized to control pilferages

### **2.CONVERGENCE**

- 1650 Nutri-Gardens have been developed in convergence with Panchayath Raj & Rural Development under MGNREGS
- All the Gram Panchayaths are being involved for nutrition and health care support to the pregnant women and malnourished children
- 'Bala Sanjeevani' additional supplementation has been introduced and all the pregnant, lactating women having hb (gr/dl) <11 are being provided with millet based,



protein, energy nutrition supplementation across scheduled caste, scheduled tribe and general communities in the state

- Every malnourished child in SC, ST and general categories is being provided every day Egg and milk (100 ml) with the convergence efforts by Scheduled Caste and Scheduled Tribe Sub Plan and from General funds
- The state government has adopted tribal areas specific strategy to reduce malnutrition among children and women, extension activities for providing nutrition are being taken up for the hilltop and hard to reach areas
- Urban pre-schools have been focused with merging of nearby Anganwadi centers, the curriculum design and classroom transaction is redesigned, significant improvement in terms of children enrolment and learning focus has been achieved with the support from municipal administration and urban development department

### **3.INFRASTRUCTURE DEVELOPMENT IN ANGANWADI CENTERS**

- Anganwadi building construction has been taken up with top most priority under the MGNREGS funds, so far the state has completed construction of 18,301 (during 2014 to till date) Anganwadi buildings
- The basis facilities for drinking water, electricity and functional toilets at Anganwadi centers are focused and above 90% of the Anganwadi centres are now having these 3 basic facilities

### **4.INFORMATION TECHNOLOGY & IEC INITIATIVES**

- To address the malnutrition challenges among children <5 years, the state government has adopted child-centric approach with tracking of every child's nutrition status on regular basis through Nutri-TASC ([www.nhts.ap.gov.in](http://www.nhts.ap.gov.in))
- The government has introduced tracking of every child and women undernutrition tracking system (nutri-TASC) aligned to the Chief Minister's Online Real time Executive dashboard, e-pragathi analytics and linked with Real Time Governance System (RTGS)
- All the 55,607 Anganwadi workers are provided with smartphones for data updation on a real time basis; 2227 Supervisors are provided smartphones for dashboard monitoring and handholding support during monitoring
- Developed Information Education and Communication materials and building awareness among communities and service delivery beneficiaries

- The governance systems are improved by the implementation of Biometric Attendance, e-Office, Video & Audio Conference. CFMS has brought last-mile visibility in financial accounting.

## **5.STATUS OF SUSTAINABLE DEVELOPMENT GOALS**

- The state is focusing on achieving 'zero hunger'; good health and well-being of all; gender equality; clean water and sanitation to make malnutrition free villages
- The state is set to reduce 2% of reduction every year for Low-Birth weight, stunting, and underweight among children
- The state government has adopted 'convergence approach' to achieve the desired results under SDGs for reduction of malnutrition among children and women

## **6.STATUS OF WELFARE OF DIFFERENTLY ABLES PERSONS**

Under NTR Vidyonnathi Program, free IAS coaching is provided at any of the top IAS institutes. 72 people availed this scheme from 2014-15 to 2018-19. Another important mechanism of intervention was Scholarships. Between 2014-15 to 2018-19, 22,234 pre-metric scholarships were given and 5123 post metric scholarship was given. The government also enhanced the Scholarship (MTF) rates to differently abled students under post-matric scholarships schemes. The diet charges and cosmetic charges such as haircut charge and stitching charge also have been substantially increased for boarders of hostels and residential schools.

5379 people were also provided assistance for their wedding under Chandranna Pelli Kanuka. In addition to this new initiative have been taken such as the establishment of two home for the blind person in Ananthpuramu and Kakinada. A new Braille Press has been established in Guntur so as to manufacture and supply braille notebooks and textbooks.

## **SPORTS**

The Sports Authority of Andhra Pradesh is determinedly working towards improving the sports infrastructure and capabilities in the state. To provide elite training to selected athletes and coaches by engaging international level foreign coaches for athletics discipline Project Gaandiva was launched. Under this, a Centre of Excellence in athletics is established with a projected cost of Rs.100.00 Crores for 5 years and incurring cost of Rs. 27.60 crores in the first year of its operation.

To encourage sportsmanship among children in the age group of 12 -18, 6 Sports Academies were established under Project Panchajanya. 600 promising sportspersons (both boys and girls) in the said age group are currently trained in 19 sports disciplines. As a leading initiative, efforts are being made to develop water sports capabilities such as rowing, canoeing, and

kayaking in the state with help of AP Police Department. In addition to these initiative, financial assistance is also being provided to sportsman under various schemes of the department.

Improving infrastructure has also been the focus of sports initiative in the state. For this N.T.R. Kreedha Vikas Kendrams (KVK) are being established to provide sports facilities to the children, youth, men and women in all the 175 Assembly constituencies of Andhra Pradesh sanctioned with an estimated cost of Rs345.10 crores. Already 3 KVK are functioning.

## CULTURE

The following initiatives have been taken by the Department of Culture:

S. No	Description of the Service/Programme	2013 – 2014	2018-2019
1	Old age Artist Pension (6746)	Rs.500/-	Rs.1500/- From January 2015
2	Fairs & Festivals	Not Systemized	Prepared a calendar of Festivals with stipulated dates.
3	Celebration of Jayanthi's	Very few Jayanthi's were celebrated	Declared as State functions Jayanthi's of 1.Sri Alluri Seeta Ramaraju, 2. Dr.Mangalampalli Balamurali Krishna 3. Sri Gidugu Rammurthy Pantulu 4. Sri Tanguturi Prakasam Pantulu 5. Sri Gurajada Apparao 6. Sri Babu 7. Sri Ghantasala Venkateswara Rao 8. Sri Gurram Jashua
4	Financial help to Literary and Cultural organization	22 Literary and Cultural organization were given	641 Literary and Cultural organization were given Rs.4,46,72,000/- (Rupees Four Crore Forty Six Lakhs Seventy Two Thousand only/- )
5	Cultural Festival	Only Ugadi festival celebrated	Celebrating Ugadhi, Sankranthi and Dasara festivals. In addition to State capital Ugadi and Sankranthi are being celebrated in all Districts. Rupees

			Twenty Five Lakhs for each district to celebrate Ugadi and Rupees 1 Crore for Sankranthi is being released. Dasara is being celebrated in all Shilparamamas of the state.
6	Awards to eminent writers and artists	Hamsa awards and Ugadi Puraskaram only	<ol style="list-style-type: none"> <li>1. On 2018 Ugadi festival 39 eminent artists were honored with Kalarathna Awards which carry Rs.50,000/- Cash Award and 99 Ugadi Puraskarams with Rs.10,000/- Cash Award presented by the Hon'ble Chief Minister.</li> <li>2. Sri Jashuva awards initiated with Rs.50,000/-</li> <li>3. Dr.Mangalampalli National award was initiated with Rs.10 Lakhs cash.</li> <li>4. Telugu Bhaha Visista Puraskaram with Rs.25,000/- Cash.</li> </ol>
7	Publication of Books		60 books which are of permanent value
8	Painting Workshops /Exhibitions		Around 10 workshops and exhibitions were conducted

### **Establishment of APSC&CC:**

Andhra Pradesh State Creativity and Culture Commission has been established in the G.O.M.S No.27, Dated to provide flexibility in taking decisions and conducting cultural activities.

### **New Initiatives:**

Department is deputing Kalajatha teams to Mandals during Janmabhoomi, Gramadarshini, Navanirman Deeksha. During the recent Gramadarshini the Department has deputed 667 Mandal/Rural teams and 110 Urban teams. An amount of Rs.7,43,04,000/- was sanctioned towards remuneration to the artists.

#### **1. Aanada Lahari:**

Department is conducting Aananda Lahari Programme in all Urban areas in the state on every Sunday due to which the happiness index has grown from 17% to 33%.

## **2. Yuva Samskruthi:**

The target group of this programme is youth. There will be three components

1. C to C (Culture to College)
2. C& C (College & Culture)
3. C is C (College is Culture)

## **4. Amaravathi Chandrudu**

This programme is being conducted on Pournami (Full Moon) day. Thousands of college students are participating.

## **5. Gruhinikala:**

This is intended for house wives who want to learn any art form and perform

## **6. Bala Prathiba:**

Every Saturday auditorium in GVR Music college is earmarked for child artists.

**7. Appointment of Kuchipudi Teachers:** - 181 Kuchipudi teachers were appointed to teach the students in Government schools the great style of dance Kuchipudi for which Andhra Pradesh is birth place. Each teacher is paid Rs.12,000/- per month.

## **ACHIEVEMENTS IN SCHOOL EDUCATION**

1. Significant achievements in NAS (National Achievement Survey) rankings 2017. In class X, Andhra Pradesh is 1<sup>st</sup> in Mathematics and 2<sup>nd</sup> in overall performance. Furthermore, from ranks of 13<sup>th</sup>, 14<sup>th</sup> and 23<sup>rd</sup> in NAS (National Achievement Survey) 2014 & 2015, Andhra Pradesh rose to the ranks 1<sup>st</sup>, 5<sup>th</sup> and 8<sup>th</sup> in 3<sup>rd</sup> class, 5<sup>th</sup> class and 8<sup>th</sup> class respectively

2. Gross Enrolment Ratio (GER) for Primary, Upper Primary and Secondary has improved to 85.61%, 83.96%, and 79.15% respectively as per the Unified District Information on School Education (U-DISE) data of Andhra Pradesh for 2017-18.
3. SSC pass % has increased from 91.16% in 2014 to 94.48% in 2018.
4. Dropout rates in 2017-18 have come down to 0%, 0.43% and 3.44% at Primary, Upper Primary & Secondary compared to rate of 6.27%, 5.47% and 3.81% in 2015-16.
5. To improve the quality of School Education, 3640 digital classrooms have been set up in schools providing computer and high-speed connectivity to the classrooms. Also, 1217 virtual classrooms have been established in the state to bring quality teaching in schools in distant and remote areas
6. Aadhar enabled biometric attendance of Teachers in 41,601 schools covering over 1,78,000 teachers.
7. Significant emphasis on improving standards of Physical Literacy in schools by introducing 2 hours of a scheduled physical literacy program in the academic calendar, intensive training for Physical Education teachers and sporting awards such as Pratibha Kreedha Awards.
8. The impetus on improving girl education through Badikosta program under which several initiatives such as the construction of girls hostels, bicycle distribution (3,81,142 bicycles were distributed) & self-defense were undertaken
9. Real time Mid-Day-Meal monitoring through NIC mobile application covering 35,00,000 students in 45,228 schools and introducing 5-day egg servings for the students.
10. Built data infrastructure in the form of School Information Management System, which serves as the technology backbone supporting all the programs undertaken by School Education.

## **ACHIEVEMENTS IN INTERMEDIATE EDUCATION**

1. Improved the admissions by 10.5% in Government Junior Colleges by the supply of text books to the students
2. In the year 2018-19, 16 Govt. Jr. Colleges one from each district and additional in Krishna & Nellore are selected as Centers for excellence to provide EAMCET/IIT/NEET coaching to the students on par with corporate colleges and also providing study material to them

3. In the year 2017-18, 5 Govt. Junior Colleges are selected by NITI Aayog for Atal Tinkering Labs granting 20 lakhs to each college
4. Mid Day Meal facility is launched from this academic year in A.P. from 01.08.2018 to avoid malnutrition among the poor students studying in Govt. Jr. Colleges. An amount of Rs. 23 Crores have been sanctioned for this scheme The number of students benefiting is 153000. This shall be the first of its kind scheme in the entire country at +2 stage
5. Training programmes we have conducted:
  - a. 1012 Junior Lecturers trained in 'INSPIRE Training Programme for Teachers' at Kolakaluru on academic activities in June 2017
  - b. 364 Principals trained by Lead India Foundation, Hyd. to strengthen the academic and institutional activities in August 2017 at Vijayawada.
6. The curriculum is revised in General & Vocational streams in 2017-18 on par with NEET/JEE/CA syllabus and with Industrial & entrepreneurship requirement
7. Bio Metric attendance system is introduced in all Junior Colleges including departmental offices in the state starting from 2015-16 to 2017-18
8. 402 Govt. Junior Colleges out of 450 were provided with own buildings during 2014 and 2018
9. 185 Govt. Junior Colleges were provided with English Medium Sections from 2011-16 to 2018-19
10. 100% of Government Junior Colleges were provided with internet / Wi-Fi connectivity during the last 4 ½ years
11. Free EAMCET coaching classes to meritorious students conducted in May 2016
12. Yoga & Meditation Classes were conducted weekly once in all Junior Colleges since 2015-16 academic year

## **ACHIEVEMENTS IN HIGHER EDUCATION**

1. Established 11 reputed national institutions such as IIT, NIT, AIIMS, IISER etc in the state by providing 2912 acres of valuable land and releasing Rs.131.33 crores for land acquisition and construction of compound walls.
2. Issued 11 Letter of Intents (Expression of Interest) for the establishment of reputed greenfield private universities such as VIT, SRM, KREA etc in the state. The

initiative is expected to bring investments worth Rs.11,360 crores with the student strength of over 1,72,982 in 10 years.

3. 6 Institutes of Eminence (IOE) have been selected by MHRD, GoI to the state which will be provided with required autonomy and support to evolve into world class institutions in due course of time.
4. According to latest AISHE (All India Survey on Higher Education) Report for the year 2017-18, Gross Enrolment Ratio of Andhra Pradesh is 30.9, above the national average of 25.2, and has improved from 28.4 in 2010-11
5. By 2017-18, Six (6) universities have come in top 100 in NIRF national rankings compared to none participating in rankings till the year 2015. Also, Andhra University & Sri Venkateshwara University have broken into top 50 in NIRF national rankings.
6. 10 state universities out of 16 have received NAAC accreditation with 4 universities achieving A+ & A grades
7. 46 Government Degree Colleges and 84 Government Polytechnics (100%) have been provided with Digital Classrooms providing access to digital infrastructure and high speed internet connectivity.
8. The government has built 191 virtual classrooms in Government Degree Colleges (100%) and in 62 Government Polytechnics which enable the teachers to virtually teach students studying in educational institutions in distant or inaccessible geographic locations.
9. Skill upgradation through industry relevant courses and training to more than 8 lakhs beneficiaries in the state providing employment to 1,78,649 students till now. Industry tie-ups with renowned knowledge partners such as Siemens, Dassault Systems, Cisco, British Council etc to provide training in technology and communication skills
10. Through various capacity building programs for teacher and principal, training have been initiated in collaboration with institutions such as TISS, BC-ELF, ISB , ASCI, CIPS., NUEPA, APHRDI and NIT Warangal Under this 1860 faculty members have been trained since 2014 onwards
11. Foreign collaborations with Wright State University, Ohio USA to provide a 75% fee reduction for students of Andhra Pradesh. Collaborations with University of California, Berkeley and Curtin University to increase foreign student's participation in the state.



## **ACHIEVEMENTS IN HEALTH AND FAMILY WELFARE**

1. Decrease in MMR from 83 (2014-15) to 65.81 (2018-19).
2. Decrease in IMR from 37 (2014) to 10.51 (2018-19).
3. Talli Bidda Express, a new initiative with 279 vehicles has dropped back 719,512 post-natal women.
4. Free Dialysis centers increased from 14 to 48 centers which has treated 5946 number of patients.
5. Mukhyamantri e-Eye Kendram, another new initiative for quality eye-care established in 115 centers and have covered 6,67,796 beneficiaries.
6. Linen and laundry services introduced for first time in all Teaching Hospitals and 4 APVVP Hospital.
7. Increase in four Antinatal check-ups to Pregnant women from 74% (2014-15) to 81% (2018-19).
8. Increase in surgeries in Government hospitals by 173% in 2018-19 (11.99 lakhs) compared to 2014-15. (4.39 lakhs).
9. Increase in Lab diagnostic tests in public health facilities by 120% in 2018-19 (3.25 crores) compared to 2014-15 (1.48 crores).
10. Increase in percentage of Institutional deliveries from 97% (2014-15) to 99.2% (2018-19).
11. Increase in fully immunization (1-5 years) from 79.78% (2014-15) to 112.95 % (2018-19).
12. Increase in fully immunization (0-1 years) from 95.07% (2014-15) to 101.22 % (2018-19).
13. Increase in the Out Patients percentage by 51.05% in public health facilities in 2018-19 (65,875,752) compared to 2014-15 (43,611,539).
14. Increase in the In Patients percentage in public health facilities by 36.67% in 2018-19 (3,452,592) compared to 2014-15 (2,526,211).
15. Decrease in the Malaria cases to 73.25% in 2018-19 (5,638 cases) compared to 2014-15 (21,077 cases).
16. Increase in NQAS certification from 0 to 25 hospitals (District Hospitals and Area Hospitals).NABH accreditation pre-assessment of 8 Teaching Hospitals has been completed.
17. Decrease in per capita Out Of Pocket Expenditure on healthcare from INR 5770 (2015) to INR 587.31 (2018) which is 90%.
18. Mahaprasthanam – dignified transportation of 30,671 deceased from the government hospitals with a fleet of 53 vehicles.
19. Solar roof top in 45 government hospitals.

20. All 153 PHCs in tribal areas are converted into 24 X 7 PHCs.
21. 122 feeder ambulances services are introduced in remote and inaccessible ITDA areas.
22. Release of State, District and Village Health Bulletins on 7<sup>th</sup> of every month to increase public awareness on health education & prevention.
23. Establishment of Andhra Pradesh MedTech Zone Limited (AMTZ), a first-of-its-kind enterprise in India under the Government of Andhra Pradesh dedicated to Medical Device Manufacturing.

## **ACHIEVEMENTS IN WOMEN & CHILD WELFARE**

1. Improved supply chain management under ICDS
2. >90% Anganwadi centers having basic 3 facilities (54,906 AWCs having drinking water facility, 54,697 AWCs having Electricity facility and 54, 906 AWCs having toilet facility)
3. Increased numbers in Anganwadi centers having own buildings
4. Construction of building for CDPO offices
5. Developed 1500 Nutri-Gardens in Panchayaths
6. Special nutrition program for pregnant, lactating women and malnourished children
7. Coverage of beneficiaries under Supplementary Nutrition and Pre-schools with ongoing feedback from beneficiaries through Real Time Governance
8. Improved convergence with SERP, MEPMA, Municipal Administration, tribal welfare and social welfare, health, school education departments
9. The department has achieved 2 positions in the public satisfaction for service delivery in the survey taken up by the government through RTGS

## **AWARDS & RECOGNITIONS FOR SCHOOL EDUCATION, HIGHER EDUCATION**

1. South Asia Manthan Award for e-Governance, 2016, among 296 entries in 9 categories from 07 SAARC countries.
2. 2 SKOCH Smart e-Governance awards in 2017

3. Computer Society of India-Nihilent Award for effective implementation of eGovernance, 2018.
4. India skills report 2019, which is a joint initiative by CII (Confederation of Indian Industry), Wheelbox & PeopleStrong, Andhra Pradesh emerged as the no. 1 state in the country in terms of employability. Employability of engineering graduates rose to 63.11% in 2018 from 42.08% in 2017.
5. Degree Colleges in the state received Unnat Bharat Abhiyan award by UGC and 5 Degree Colleges received Swatch Bharat awards.
6. Under the University Innovation Fellow Programmes offered by Stanford University, 258 students from Andhra Pradesh have been selected out of 679 participants from 30 countries across the world
7. 25,000 students have been covered in Entrepreneurship and Venture Development Programs offered by Northeastern University, Boston, USA. 32 Ideas were converted into start-up companies.
8. 500 students trained in Gaming & Animation course offered by Kajaani University Finland and 13 games developed by trainees have been published in Google Play Store.

## **AWARDS & RECOGNITIONS FOR WOMEN, CHILDREN, DIFFERENTLY ABLED AND SENIOR CITIZEN WELFARE**

1. The Women Development and Child Welfare department has got the targets achieved under Nutrition Mission supported by the World Bank and got funds under Disbursement Linked Indicators (DLIs) 3 times
2. The department has got best performing state award under Poshan Abhiyaan from the Ministry of Women and Child Development Government of India
3. The department has achieved second highest position under public satisfaction for service delivery, received recognition from Hon'ble Chief Minister during Janma Bhoomi Maa Vooru program

## **CONCLUSION & WAY FORWARD**

The whitepaper makes an effort to underscore the diligent work done by the present government in human and social development sector with an overarching vision to promote sustainable and inclusive growth resulting in a Healthy & Happy society.

The Department of **School Education** has identified the following key areas for interventions to accelerate and improve learning outcomes of students and significantly improve school education:

- Design and implement pre-school curriculum and Teacher Training program
- Undertake Curriculum revision for all Grades integrating Happiness Curriculum, ICT approaches, application of science and technology, developing 21<sup>st</sup> Century Skills (Communication, Critical thinking, collaboration, etc.) Gender sensitivity, Physical literacy, Disaster Management, Safety and Security for School Children, etc.
- Conduct of high-quality assessments, ensure granular analysis for tracking student performance in various assessments; Dissemination of student performance insights subject wise, school wise, Mandal and District wise and usage by all stakeholders
- Extend the Special Projects to other districts, implement systematic Remedial Program for low performing students.
- Enhance quality of Teacher education, provide high quality teaching resources and focused online and offline trainings to Teachers on key academic gap areas.
- Establish Digital Education Corporation and strengthen technology integration in classroom teaching and learning through expansion of Digital Class Rooms (DCR), Virtual Class Rooms (VCR), implement Personalised Adaptive Learning (PAL) Models at scale, extend QR codes in Text Books for all Grades, digital content, enhanced services through AP eKnowledge Exchange Portal for subject teachers, etc.

*Badi Parivartana's* vision is to move towards 'child-centric' school education with a goal to create an all-enabling ecosystem that can ensure 'happy, fulfilled, resilient and responsible students, who are future ready'.

The key characteristics of *Badi Parivartana* are:

- A major shift from a system focus to a child-centric approach, where a child's development, protection, and participation in society is at the core of all work
- Activities carried out are outcome-focused, and
- Interventions adopt a lifecycle approach rather than project orientation

**Higher Education** in Andhra Pradesh has seen tremendous growth in the last 5 years as evidenced in the annual reports of AISHE (All India Survey on Higher Education) which has shown continuous improvement in indicators such as Student Teacher Ratio (from 17 to 19), the number of universities (from 28 to 34) and GER (SCs & STs) increasing by on an average 1% point.

In the next 5 years, present government envisions to continuously improve the quality of Higher Education in the state by strengthening state institutions and empowering private ones, improving Gross Enrollment Ratio and reducing gender inequality in Higher Education. The government will strive to improve the employability of students through industry-oriented curriculums, compulsory internships, and improved pedagogy through technological interventions.

**Health and Family Welfare** Department with the support of more than 1400 public health facilities 7500 Sub Centers and 22 new initiatives, HM&FW is continuously striving to provide quality & affordable healthcare to the citizens and make the state - "Arogya Andhra Pradesh – Ananda Andhra Pradesh".

The **Culture** Department has taken more initiative to further growth in culture space. In this regard 43.91 acres of land to be acquired with an estimation cost of Rs.23 Crores to **Kuchipudi Natyaramam. GO's were issued to establish 7 academies namely,**

1. Sahitya academy
2. Sangeeta Nrutya Academy
3. Nataka Academy
4. Folk and Creativity Academy
5. Drusya Kalala Academy
6. History Academy
7. Science and Technology Academy

out of which Nataka Academy was formed and started functioning. Remaining six will be kept in shortly.

**Telugu Language Development Authority(TLDA):** A search committee has been appointed to suggest the names of suitable persons to be nominated in the authority. The Authority will come in to existence shortly.

**The present government, taking clues from Sustainable Development Goals (SDGs) adopted by UN, has ensured that strategies to build economic growth go hand-in-hand with strategies developed to address social needs such as -**

• **Universal Primary Education**

Enrolment drives such as Mana Vooru, Mana Badi, Badi Pilustondi were launched in the state to improve enrolment and retention of students. As a result, Gross Enrolment

Ratio (GER) for Primary, Upper Primary and Secondary has improved to 85.61%, 83.96% and 79.15% (an increase of average 3-4%) respectively as per the Unified District Information on School Education (U-DISE) data of Andhra Pradesh for 2017-18. The government envisages to reach 100% enrolment in the coming years.

- **Reduction in child mortality, improvement in maternal healthcare & combating diseases such as HIV, Malaria etc**

With the effective schemes and policies undertaken by the present government, MMR and IMR have decreased from 83(2014-15) to 65.81(2018-19) and from 37(2014-15) to 10.51(2018-19). Moreover, the government has built an efficient health infrastructure comprising of 1400 public health facilities, 7500 Sub Centres and 22 new initiatives to provide quality and affordable healthcare with the vision to develop Andhra Pradesh as 'Arogya Andhra Pradesh.

- **Physical well-being of the citizens**

According to Sports policy 2017-22, Government will be investing in developing world class coaches and centres to nurture excellence in sports. Investments will go into the creation of physical infrastructure and installation of play equipment following which the state will endeavor to bring in investments to cater to human resources development, setting-up of Sports Science centres, setting up of high- performance centres with advanced sports all contributing to 'SwarnaAndhra Vision 2029' in which the state envisions to have 60% of population participate in physical training and sports.

- **Training and job opportunities to the students**

Several apprenticeships, training, and placements were undertaken to provide employment skills to the students and unemployed youth in collaboration with renowned organisations such as Siemens, Dassault Systems etc. Recently, the state was awarded No. 1 in students employability in India Skills report 2019. While employability levels of students have drastically improved from 42.08% in 2017 to 63.11% in 2018, present government envisions to improve employability levels to 100% and to provide internships, jobs and other employment opportunities to every students and youth.

While there has been steady growth in human and social development for the last 5 years, the challenges ahead are immense as the role of Human Resources Development (HRD) to achieve sustainable economic and social development is constantly evolving and will continue to evolve over the next decade. The present government is committed to realize the full potential of human capital in the state and take giant strides towards its vision of making Andhra Pradesh a social, knowledge capital and thus, the best state in the country.