

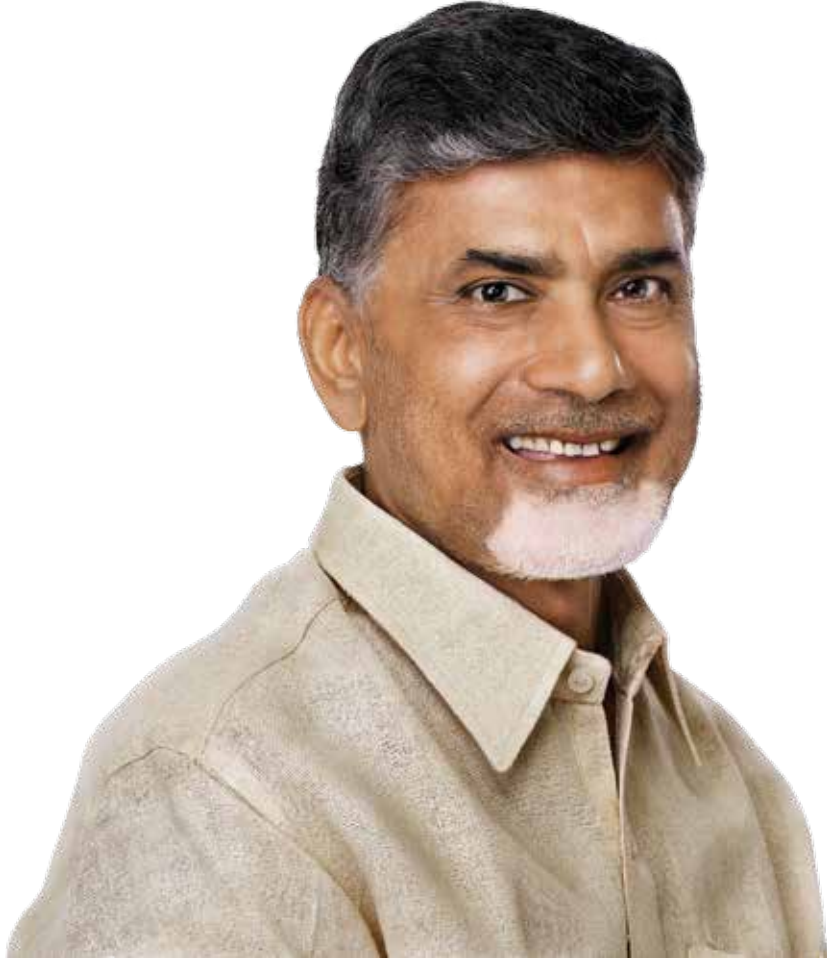


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AMARAVATI PROJECT



Andhra Pradesh
Capital Region
Development Authority



Under the guidance of
Shri Nara Chandrababu Naidu
Hon'ble Chief Minister of Andhra Pradesh

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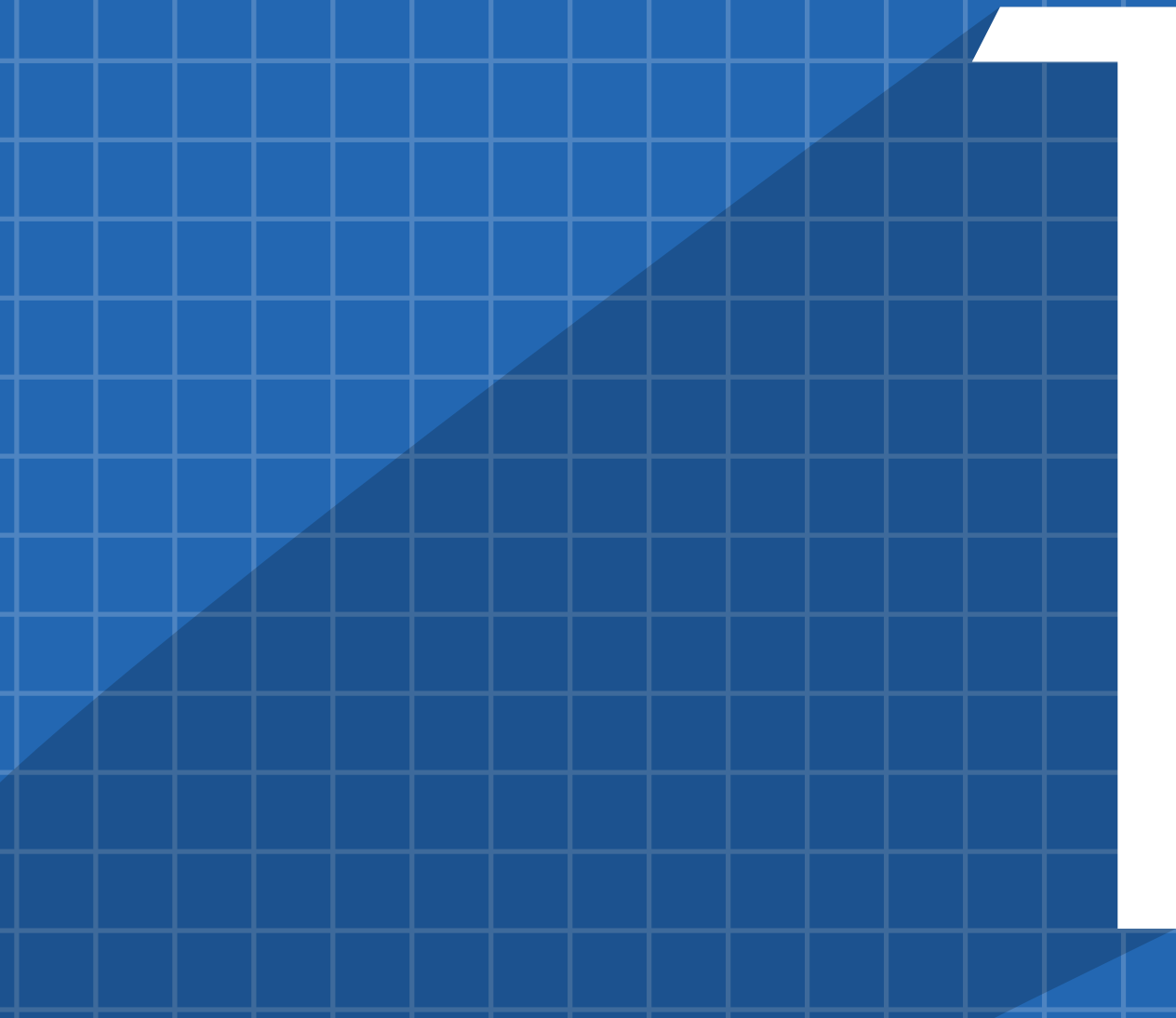
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EXECUTIVE SUMMARY

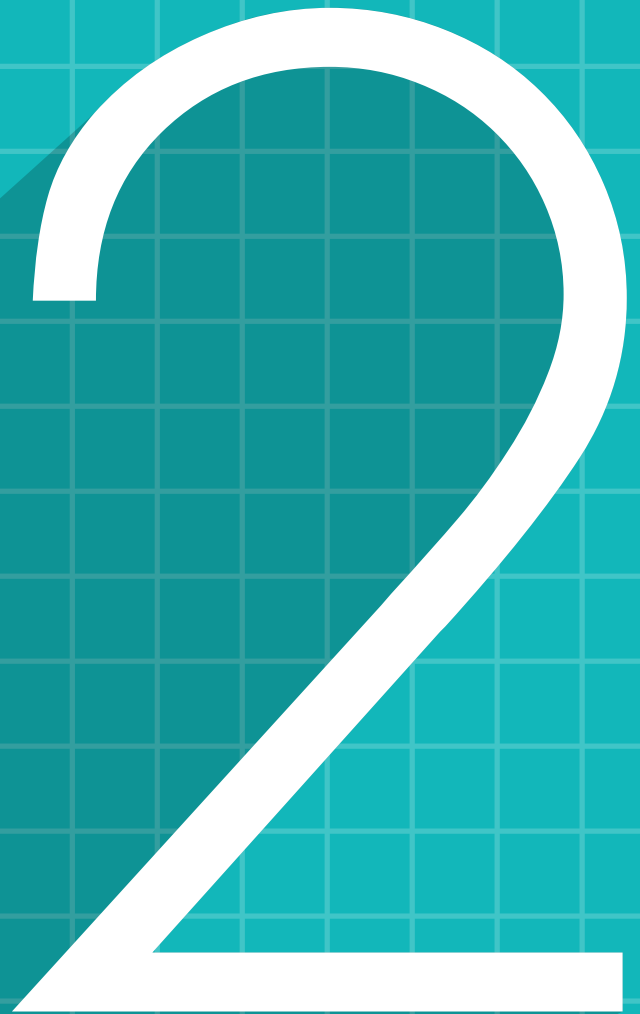


This report presents the status of the Capital City project, the status of planning, development and other related activities towards the development of the People's Capital of Andhra Pradesh, Amaravati. The details contained in the report is purely for information and is subject to various revisions as the project progresses forward and revisions are incorporated.

The report consists of an Overview section consisting of the background and circumstances that lead to the development of APCRDA and the corresponding chronology of events. Subsequently, a department wise summary of various milestones, achievements and issues have been provided one after the other across Land, Social Development, Planning, Projects, Financial Planning, Industry & Economic Development & Execution strategy.



OVERVIEW



8,603 Sq.km Covered under
Amaravati Capital Region

217 Sq.km Covered under
Amaravati Capital City

4,283 Acres Covered under SEED
area of Amaravati

32,325 Consented land owners
under Land Pooling Schemes

2.1

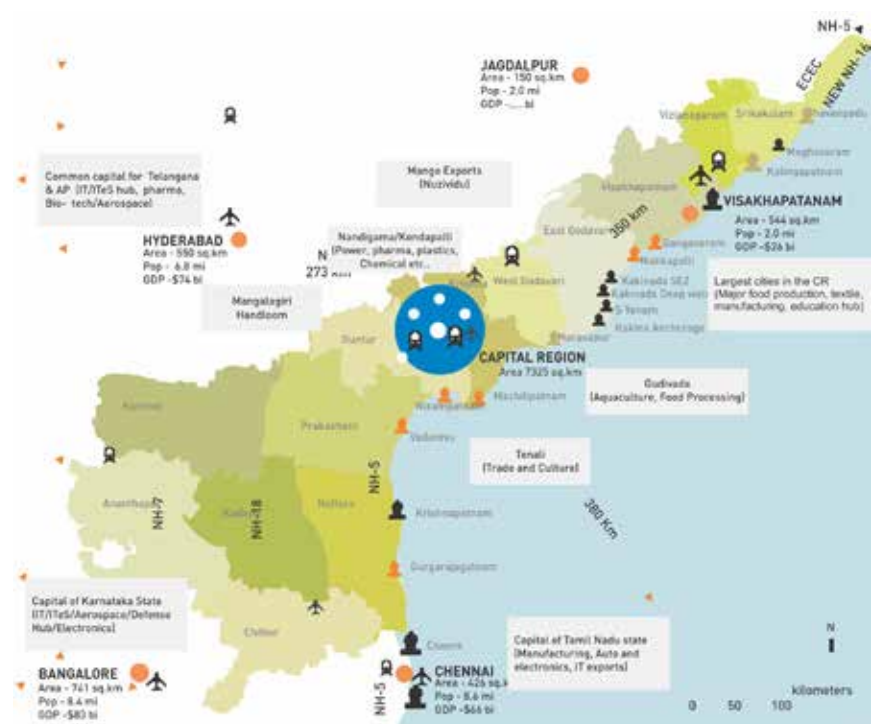
ANDHRA PRADESH REORGANIZATION ACT, 2014

1. The Andhra Pradesh Re-organization Act, 2014 (central Act 6 of 2014) which came into force on 2nd June 2014 provided for the reorganization of existing State of Andhra Pradesh. AP Re-organization Act, 2014 (Central Act 6 of 2014) passed by parliament identified Hyderabad as the Capital of the State of Telangana, but constituted an expert Committee to study various alternatives regarding the New Capital for the successor State of Andhra Pradesh and make specific recommendations. There is a casting responsibility on the Central Government to assist Successor State of Andhra Pradesh in identifying of its New Capital and to assist financially as per clause 3 (d) of the Statement of objects.
2. The Central Government has constituted expert committee on 28-03-2014 under the Chairmanship of Sri K.C. Sivarama Krishnan, I.A.S., to give the report within 6 months from the date of Re-Organization Act, i.e., 31-08-2014 and some of the guidelines issued by Central Government in the terms of reference includes.
 - a. The least possible dislocation of people and their habitations.
 - b. Vulnerability assessment from National Disasters like floods, cyclones and earth quakes.
 - c. Assess the scope of minimizing the cost of construction and acquisition of land.
 - d. The least possible dislocation to the existing agriculture systems.
3. The Committee submitted its report on 28.7.2014 and gave various alternatives without giving any specific recommendations and left the decision to the State Government. The Central Government forwarded the report to the State Government.

2.2

CAPITAL CITY - LOCATION IDENTIFICATION

1. The State Government has taken the recommendations of the expert committee, opinions of experts of urban development, various public organizations and after considering all aspects of public welfare, accessibility to all parts of the state, advantages and disadvantages, identified and finalized the location of the Capital City area taking the following factors into consideration.
 - a. The identified Capital City area is centrally located from both rear ends of the State with good connectivity.
 - b. Guntur and Vijayawada cities are already congested and they have not been included in Capital City area.
 - c. The Capital City is 60.30 km to 78.70 km from the nearest point of Bay of Bengal and far away from cyclone zone.
 - d. The Capital City area is located on the upstream of Prakasam Barrage; as a result avoids Krishna delta lands and is also less prone to flooding from Krishna River.
 - e. River Krishna has well defined regime course and its natural and man-made banks are capable of carrying flood discharge.
 - f. Diviseema area is prone to cyclones and it is located 96 KM away eastern side of Prakasam Barrage and Capital City is located on the western side of Prakasam Barrage spreading over 20 km on southern side of Krishna River.
 - g. The choice of the State Government is to go for de-centralized development with centralized administration.
2. The Andhra Pradesh State Assembly passed resolution on 03-09-2014 to establish green field Capital City as a livable, environmentally sustainable people's capital and identified location of the Capital between Vijayawada and Guntur Cities on the banks of river Krishna.



2.3

APCRDA ACT, 2014

The Government has enacted Andhra Pradesh Capital Region Development Authority Act, 2014 (Act.No.11 of 2014) for the declaration of the New Capital Area for the State of the Andhra Pradesh and establishment of the Andhra Pradesh Capital Region Development Authority and formulated the Andhra Pradesh Capital City LPS (F&I) Rules, 2015.

2.3.1. AUTHORITY FORMATION

The Government constituted AP Capital Region Development Authority for the purpose of Planning, Co-ordination, Execution, Supervision, Financing, Funding and for Promoting and Securing the Planned Development of the Capital Region and Capital City Area for the State of Andhra Pradesh and for managing and supervising urban services in the New Capital Area and for the matters ancillary thereto vide G.O.Ms. No. 255, MA & UD (M2) Dept., dt. 30-12-2014.

2.3.2 NOTIFICATION OF EXTENT - CR AND CA

1. The Government notified an extent of 8352.69 Sq.Kms as Andhra Pradesh Capital Region (CR) vide G.O.Ms.Nos. 253 & 207, dt. 30-12-2014 & 22-09-2015 which is meant for development under the provisions of AP CRDA Act, 2014. The Capital Region includes 953 villages, 12 urban local bodies (2-Corporations, 2-Town areas, 8-Municipalities) of 26 Mandals in Guntur District and 30 Mandals in Krishna District.
2. The Government notified an extent of 217.23 Sq.Kms as Andhra Pradesh Capital City Area (CA) vide G.O.Ms. Nos. 254 & 141, dt. 30-12-2014 & 09-06-2015 which is meant for construction of Capital City Development Project under the provisions of Land Pooling Scheme. The Capital City area falls in Guntur District (on the west of Old National Highway from Prakasam barraiage to Y-Junction at Mangalagiri. It covers 24 Revenue Villages and part of Tadepalli Municipality covering Mandals of Thullur, Mangalagiri and Tadepalli.

2.4

CHRONOLOGY OF EVENTS

Land Pooling Policy

25-10-2014	RDOs Guntur and Gurajala, Tehsildars Tullur and Tenali conduct gram sabha in Tullur, Rayapudi and Nelapadu.
12-11-2014 to 30-11-2014	Series of meetings held by Minister Agriculture Prattipati Pullarao, MLA Tadikonda Sravan Kumar, MLA Guntur West Modugula Venugopal Reddy in 29 villages of Tullur, Mangalagiri and Tadeipalli.
17-11-2014	Farmers meet Hon'ble CM in Lake view guest house in Hyderabad and express their opinions. Hon'ble CM convinces farmers.
08-12-2014	Hon'ble CM announces farmers package for land pooling at Hyderabad.
01-01-2015 to 10-01-2015	Competent Authorities for LPS appointed. LPS Area notified in all 29 Villages. Receipt of objections on LPS area starts.
01-01-2015	Voluntary and Irrevocable Consent Applications receipt starts.
28-02-2015	Irrevocable consents received from 20510 farmers – Acres 32469.
26-02-2015	Farmers meet Hon'ble CM. Enhanced package for Semi-Urban and Jareebu announced.
30-03-2015	House Hold Survey starts and concludes by 06-05-2015.
30-05-2015	Receipt of recommendations of competent Authorities demarcating extended habitation completed. Skill Development Programme starts.
03-06-2015	GoAP authorizes Commissioner CRDA to dispose objections on the recommendation of the Competent Authorities vide its G.O.Ms.No. 139.
14-07-2015	Pension payments start from Capital Region Social Security Fund.
18-08-2015	Commissioner CRDA disposes objections, exempts village sites / habitations to avoid displacement.
20-08-2015	LPS area published. SDCs for Land Acquisition appointed. GoAP permits Commissioner, CRDA to file requisition for LA. District Collector, Guntur issues LA Notifications in 5 Villages.
24-08-2015	Commissioner issues revised guidelines for fixing Village site / extended habitation.
28-08-2015	NREGA works start for wage employment.
05-09-2015	Village Nurseries work at 14 locations starts.
18-01-2016	Orders issued on the recommendations of Competent Authorities in 9.4 (Supplement) on 9.2 objections.
02-02-2016	Notification of Final area (in Form 9.5) for preparation of draft LPS published.

Planning

30-12-2014	AP CRDA Act., 2014 notified, AP CRDA Authority formed. Capital Region (7317 Sq.KM) and Capital City (217.23 Sq.KM) notified. AP CRDA authorized to take up Capital City Development Scheme.
30-03-2015	The Government of Singapore submits Capital Region perspective plan.
25-05-2015	The Government of Singapore submits Master Plan for Capital City.
09-07-15	Bathymetric Survey of River Krishna starts.
10-07-15	Topographical Survey of Catchment area of Kondaveeti Vagu starts.
20-07-2015	The Government of Singapore submits Seed Capital Development plan.
07-08-2015 to 09-08-2015	Workshop held with National level Experts on master plan.
05-09-15	Proposal for de-Notification of Forest Area sent to MOF, New Delhi.
26-12-2015	Notification of draft Perspective Plan for Capital Region done. Notification of draft Master Plan for Capital City done.
22-02-2016	Notification of Capital City Final Master Plan done.

Projects

23-12-2014	AP CRDA Act passed in Assembly.
22-04-2015	Cabinet approves of Selection of Master Developer through Swiss Challenge Method.
25-08-2015	Workshop with Capital Advisory Committee held.
05-09-15	Proposals submitted to SEAC for Environment Clearance.
09-10-15	Environmental clearance for establishment of Greenfield Capital City Amaravati in an area of 217.23 Sq.Km. given.
19-10-2015	Consent order for establishment for Area development Project by AP Pollution Control Board given.
11-01-16	Signing of Competition contract for Master Architects for Government Complex done.
16-02-2016	Tenders finalized for Interim Government Complex.

Events

03-09-14	Assembly resolves on location of Capital City.
01-01-15	Public meeting by Hon'ble CM at Tullur and cake cutting done.
22-10-2015	Foundation Ceremony by Hon'ble Prime Minister of India at Uddandarayunipalem of Thullur Mandal held
17-02-2016	Foundation for Interim Government Complex at Velagapudi laid.

International Collaborations

08-12-14	MOU signed between INCAP, Government of A.P and IE, Government of Singapore for preparation of Master Plan.
13-01-2015	1st High level Committee Meeting between CM AP and 2M Singapore held.
19-01-2015 to 24-01-2015	Visit by Commissioner, CRDA and delegation to Singapore for training in CLC Singapore.
30-03-2015	2nd High Level Committee Meeting between CM AP and 2M Singapore held.
25-05-2015	3rd High Level Committee Meeting between CM AP and 2M Singapore held.
05-07-2015 to 10-07-2015	CM delegation visits Japan for Capital development and meets Japanese PM.
20-07-2015	4th High Level Committee Meeting between CM AP and 2M Singapore held.
20-9-2015 to 23-09-2015	Hon'ble CM's delegation visits Singapore for further discussions.
22-10-2015	MoU signed with METI by Govt. of AP in Vijayawada.
25-10-2015 to 05-10-2015	Best practices study in 11 cities by officials of AP CRDA conducted.
14-12-2016 to 17-12-2016	Hon'ble Minister (MA&UD), Commissioner, CRDA and delegation visit Ghuizhou, China for capital city development.
23-01-2016 to 25-01-2016	Hon'ble CM's delegation visits Singapore on capital city development.
11-03-2016 to 12-03-2016	Hon'ble CM's delegation visits London for Investment road show.

Financing

22-10-2015	MoU signed with JBIC.
10-01-16	MoU with HUDCO signed.

25.04.2016	Inauguration of Interim Govt. Complex by Hon'ble Chief Minister
25-06-2016	Plot allotment for Nelapadu
	Construction for SEED Access road for Amaravati inaugurated
29-06-2016	Hon'ble CM signs Sister-city agreement with Guizhou province, China with Amaravati
04-07-2016	Land allotment of an extent of 455 acres provided for VIT, IUIH, TTD, NID, CITD and APHRDI
29.08.2016 – 6.08.2016	CRDA officials undertake visit to Astana, Tokyo, Putrajaya and Singapore
01.09.2016 – 03.09.2016	JICA initiated technical assistance studies on Region Transportation Masterplan
17.09.2016	Open forum for speedy and transparent approvals of development permits initiated, including online system for processing permits (DPMS)
21-09-2016	Plot allotment for Sakhamuru village performed
27-09-2016	Plot allotment for Donadapadu and Pitchukalapalem performed
01-10-2016	Plot allotment for Abbarajupalem and Ainavolu performed

03-10-2016	British High Commission engages Technical support team for Water supply, sewerage and Transportation plan for Amaravati
03-10-2016	British High Commission engaged Technical support team for Urban financing plan for Amaravati
03-08-2016 to 08-10-2016	Commissioner, CRDA undertakes Immersion visit to UK on Transit-oriented-development (TOD)
19-10-2016	Plot allotment for Borupalem and Kondamarajupalem
21-09-2016	Plot allotment for Shakamuru village
27-09-2016	Plot allotment for Dondapadu and Pitchukalapalem
05-10-2016	Roundtable with International and National schools conducted
12-10-2016	Inauguration of CM's office at IGC, Velgapudi
19-10-2016	Plot allotment for Kondamarajupalem and Borupalem village
21-10-2016	Plot allotment for Nekalu and Malkapuram
25-10-2016	RFP for Master Architect for Government Complex issued
28-10-2016	Foundation stone for the Government Complex of Amaravati laid by Sri. Arun Jaitley, Hon'ble Finance Minister of India
14-11-2016	RFP for Schools – National / International Days scholar / Residential issued
21-11-2016	RFP for Hospitals released
23-11-2016	RFP for Hotels – 5 star, 4 star and 3 star issued
24-11-2016	MoU signed with AIBF – All India Biking Federation and CRDA to promote cycling
25-11-2016	Financing roundtable organized in Mumbai with leading financial institutions
01-12-2016	Large French trade delegation led by French Ambassador to India, visits Vijayawada to learn about opportunities in Amaravati project
01-12-2016	Roundtable with leading hospitals conducted
20-12-2016	Plot allotment for Krishnayapalem performed
23-12-2016	RFPs for Architects for Secretariat, HoDs and VIP Housing issued
24-12-2016	Plot allotment for Lingayapalem
28-12-2016	Senior delegation from METI and JICA, Japan meets with APCRDA and later with Hon'ble CM
31-12-2016	Plot allotment for Venkatapalem village
03-01-2017	Plot allotment for Velagapudi and Thullur

03-01-2017	RfQ for "Development of 6.84 sq. km. SEED start-up area of Amaravati capital city through Swiss challenge approach under APIDE Act, 2001" issued
08-01-2017	Plot allotment for Rayapudi village
09-01-2017	CRDA enters MoU with Singapore for development of Urban city tools
10-01-2017	2nd NTR Canteen launched at Thullur
10-01-2017	Plot allotment for Ananthavaram
11-01-2017	Plot allotment for Kuragallu
12-01-2017	Plot allotment for Nidamurru
19-01-2017	Plot allotment for Mandadam
26-01-2017	Plot allotment for Nowlur and Yerrabalem
27-28 - 01 - 2017	CRDA signs MoUs worth 1.25 lakh crore during Partnership Summit, Vizag
03-02-2017	Capital gains exemption declared for Amaravati LPS farmers
03-02-2017	Contract entered with Foster + Partners and Architect Hafeez Contractor for Government Complex designs
09-02-2017	Second phase allotment for Mandadam and Inavolu
15-16th - 02 - 2017	CRDA organizes Smart City Leadership Programme with support of UK Government
17-02-2017	Japanese representatives from Ministry of Economy, Trade and Industry(METI), Ministry of Land and Infrastructure, Transportation and Tourism(MLIT) and Japan International Co-operation(JICA) met the APCRDA Commissioner Dr Sreedhar Cherukuri
18-02-2017	Japanese companies led by METI present technical proposals for various projects in Amaravati
21-23 - 02 - 2017	Commissioner visits London to take part in Water Summit, have discussions with Transport for London (TfL) and Thames Water
01-03-2017	Foster + Partner presents first cut of designs for the Government Complex

2.5

APCRDA DASHBOARD

AP CRDA initiated dashboard to provide up to date real time information about the CRDA activities like LPS progress, Annuity, Amaravati Land less poor pensions, NTR canteen, One time loan waiver, Amaravati Skill Development, MGNREGS works, Land scape and environment and Biometric attendance.





Honourable Chief Minister during the foundation stone laying ceremony

LAND

3

34,384

Acres of Land consented under
Land Pooling scheme

38,581

Acres of Land targeted under
Land Pooling Scheme

32637

Total land covered by Acres
development agreement

53,748

Total land available under the
Acres Capital City Area

3.1

LAND POOLING SCHEME

The Government notified Capital City area covering 24 Revenue Villages and Part of Tadepalli Municipality of Guntur District. The Government directed AP CRDA to undertake development schemes through Land Pooling Scheme. The Land Pooling Scheme is the assembly of small land parcels under different ownerships voluntarily into a large land parcel, provide it with infrastructure in a planned manner and return the reconstituted land to the owners duly deducting land required for infrastructure and land in lieu of cost of development towards the provision of infrastructure. The declaration of intention to undertake Land Pooling Scheme was notified across 31 habitations covering 25 gram panchayats.

Demarcation of village site / habitation has been taken up and excluded from land pooling in an extent of Ac. 3012.00 cents in order to make the villages / habitations as part of Capital City.

3.1.1. THE AUTHORITY GUARANTEED THE RETURN OF RECONSTITUTED LAND AND PAYMENT OF BENEFITS TO THE LANDOWNERS PER EVERY ACRE SURRENDERED UNDER LAND POOLING SCHEME.

Land (1)		Category (2) (in Sq.Yards)			
		Dry		Jareebu / Semi Urban	
				RES	COMM
A) Patta		1000	250	1000	450
B) Assigned					
i)	Ex-Serviceman / Political Sufferer (Except POT Cases)	1000	250	1000	450
ii)	Assignments before 18-06-1954 (Except POT Cases)	1000	250	1000	450
iii)	Assignments After 18-06-1954 (Except POT Cases)	800	100	800	200
iv)	POT Resumed lands – Eligible Sivoijamadar occupation	500	50	500	100
v)	Un-Objectionable Govt. lands – Eligible Sivoijamadar	500	50	500	100
vi)	Objectionable Govt. lands – Eligible Sivoijamadar	250	0	250	0
C) Yearly payment of annuity for crop loss (Rs.) except for B(iv) and (vi) categories above		30000		50000	
D) Yearly increase (Rs.)		3000		5000	
E) One time additional payment for gardens like lime/sapota/guava/ amla and jasmine (Malle) (Rs)		100000			

Table 1 - Returnable Land under LPF

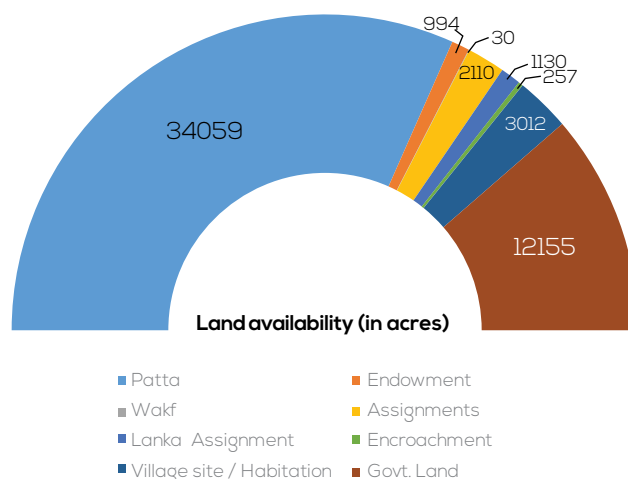
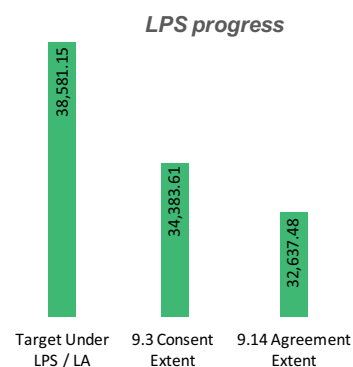
3.1.2. OTHER BENEFITS

- LPOC Certificate with alienable rights exempting registration fee.
- Demarcating village sites / extended habitations
- To provide Rs. 2,500 /- per month for a period of 10 years to all the landless families.
- One time agricultural loan waiver upto Rs. 1, 50, 000 per family to farmers who are surrendering their lands under LPS.
- Providing NREGA upto 365 days a year per family.
- Providing housing to houseless as well as those losing houses in the course of development.
- Skill development trainings with sty-fund to cultivating tenants, agricultural labour and other needy persons to have alternative livelihoods.
- To provide interest free loan up to 25 Lakhs to all the poor families for self employment.
- Free Education Policy announced in G.O.Ms.No. 125, MA & UD (CRDA-2) Department, dt. 16-05-2016.
- Free Health Policy announced in G.O.Ms.No. 52, Health, Medical & Family Welfare (I-1) Department, dt. 12-05-2016.

3.1.3. LPS PROGRESS:

- Notification under Land Pooling Scheme issued for an extent of Ac. 47573.10 cents.
- Demarcation of village site / habitation made for an extent of Ac. 3012.00 cents.
- 32637.48 acres acquired under Land Pooling Scheme against a target of Ac. 38581.15 cents.
- Annuity payment of Rs. 273.08 crores made.
- 22/24 Final Land Pooling Schemes notified
- 32877 residential plots / 23866 commercial plots /417 villas allotted.

Total Geographical Extent	53,748.00
Govt. Lands / Village Sites / Habitations	15,166.85
Target Under LPS / LA	38,581.15
9.3 Consent Extent	34,383.61
9.14 Agreement Extent	32,637.48
Consent Extent (%)	89
Agreement Extent (%)	85
Annuity (Crores)	273.08



3.1.4. RECOGNITION FOR THE LAND POOLING SCHEME

APCRDA received the HUDCO Award for Best Practices to "Improve the Living Environment 2016-17" under the category "Urban Governance" for its entry "Voluntary Land Pooling Scheme" in the recently concluded HUDCO Foundation Day held on 25th April 2017 in New Delhi. The HUDCO also expressed appreciation for the outstanding contribution, the APCRDA, has been making in the Urban Infrastructure, through the various innovative initiatives and felicitated the APCRDA during the ceremony.



APCRDA Commissioner Receiving the HUDCO Award for voluntary Land Pooling Scheme

3.2

LAND ACQUISITION UNDER LA, R&R ACT, 2013.

The lands falling under acquisition within the LA R&R Act, 2013 were also included in the construction of Capital City Development Project as per Rule 9(1) of the AP Capital City LPS (F&I) Rules, 2015 read with Section 126 of AP CRDA Act, 2014 and LA R&R Act, 2013. The estimated area under Land Acquisition required for Capital City Development Project is Ac. 6038.5807 cents.

3.2.1. LA R&R MATRIX

Sl. No	Impact Category	Eligibility	Entitlement	Valuation
a)	Loss of land	Patta / / Temple Land / Assigned Land in Rural and Urban areas	Basic agriculture value or Average Market Value as on cut-off date whichever is high multiplied by factor 1.25 in rural and 1.0 in urban areas + value of structure and trees + 100% solatium on market value of land, structures and trees	The basic value is as per the Indian Stamp Act 1899. Average sale price shall be by taking 50% of highest registration values for similar lands that took place 3 years prior to cut-off date. Cut-off date is the 1st notification under LA i.e. 11(1) duly following the provisions of R&R Act, 2013. The average sale price would be multiplied by factor
b)	Loss of commercial and industrial lands	Affected area	Basic value or Average Market Value as on cut-off date whichever is high multiplied by factor 1.25 for rural or 1.00 for Urban + value of structure and trees + 100% solatium	1.25 in rural area. The valuation of trees and structures would be added and 100% solatium would be made eligible.
d)	Loss of Trees / Topes	Affected area	Estimated value as per Horticulture / Forest Department plus 100% solatium.	GoAP rates will be adopted as on cut-off date. Wood/ right of salvage allowed.
e)	Resident House owner	Displacement in Rural area	Constructed house with not less than IAY specifications or equivalent cost if opted by displaced family.	Unit values as per AP Housing Department prevailing as on cut -off date i.e., 11(1) notification.
		Displacement in Urban area	House with not less than 50 Sq.Mts in plinth area or not less than Rs. 1.50 Lakhs if opted by displaced family.	Transportation cost of Rs.50,000/- for DPs. Subsistence grant 12 months × Rs.3,000/- One time Resettlement grant of Rs. 50,000

Sl. No	Impact Category	Eligibility	Entitlement	Valuation
g)	Cattle shed / Petty shop	Shifting from affected area to rehabilitation center	reconstruction grant	Rs. 25000/-
i)	Artisan / Small trader / Self employed	Non-agri/ commercial / industrial / institutional structure in affected area.	Financial assistance.	Rs. 25,000/-
j)	All Affected families irrespective of legal status	Loss of livelihood.	One time resettlement grant / annuity	Rs. 5,00,000 or Rs. 2,000 X 12 M X 20 Y
k)	Crop	Crop Cut down during survey	Damages	Gross income calculated on average yield multiplied by minimum support price. Net crop loss shall be 50% of the gross income.
		Standing Crop	Standing crop allowed. Damages if required.	
l)	Unidentified impacts			R&R assistance as per the principles of this RPF

Table 2: LAR&R Matrix

3.2.2. LAND ACQUISITION PROGRESS.

Stage	No. of Revenue Villages	Extent	Remarks
SIA Notification	24/24	5533.48	
Final SIA	23/24	4703.38	Except Nidamaru-1, Nidamaru-2
11 (1) Preliminary Notification	20/24	2108.98	Except Nowlur-1, Nidamaru 1&2, Undavalli, Kondamarajupalem, Lingayapalem
19 (1) Declaration	1/24		Only Nelapadu
Award u/s 23	1/24	4.33	Only Nelapadu (Part)

Table 3: LA Progress

3.3

NEGOTIATED SETTLEMENT POLICY

The areas of requirement of land in the village settlement zone are not covered by Land Pooling Scheme. Any land required for formation of Roads, Metro Lines etc., within the Non-LPS area it is contemplated to have a Negotiated Settlement instead of acquiring under LA, R&R, Act, 2013. Section-124 of AP CRDA Act, 2014 enables the authority to acquire any property by way of negotiated settlement.

3.3.1. NEGOTIATED SETTLEMENT POLICY – MATRIX

SL No	Property Type	Description	Proposed Compensation
1	Residential use in R1 Zone	House / Residential Plot Excluding Common area	(1) Double the structure value. (2) Nearest standard plot in RH colony equal to plinth area of structure / house site with annexure-II of Zoning regulations.
2	Non Agriculture /other use in R1 Zone	As is land use i.e., barons, hayricks etc.,	(1) Double the structure value. (2) Land to land for same land use
3	Commercial / Industrial use in R1 Zone or Scattered commercial / Industrial Structures outside R1 Zone	Existing structures like shops or Commercial / Industrial Structures excluding common area	(1) Double the structure value. (2) Nearest standard plot in RH center equal to plinth area of structure, without any amalgamation of plots. The FSI shall be as per Zoning Regulations.
4	Scattered residential Houses in LPS area other than R1 Zone / Lanka Lands	Residential Houses that are constructed and the owner is living in the agricultural fields.	(1) Double the structure value. (2) Allotment of residential entitled standard plot subject to maximum of 500 square yards in RH Colony. The FSI shall be as per Zoning Regulations.

3.3.2 OTHER BENEFITS

a)	Housing Unit for Residential House.	INR 2.75 lakhs as construction grant as per GoAP norms as per G.O.Rt.No.125, Housing (R&UH.A1) Department, Dt. 22-08-2015.
b)	Transportation cost for displaced house	Rs. 50,000 /-
c)	Re-construction of cattle shed / petty shop	Rs. 25,000 /-
d)	One time grant for artisan / small traders / certain others	Rs. 25,000/-
e)	Subsistence allowance to artisan / small traders	Rs. 2,500/- per month for a period of 10 years if not receiving pension under LPS.
f)	Construction Time	6 months from allotment of developed plot and payment of compensation and in cases of emergent situation, payment of transit accommodation , pending R&R scheme without affecting the eligible benefits.
* The unit costs will be updated at the time of RAP preparation and at the time of payment as appropriate.		



Sri. Prathipati Pulla Rao, Minister along with Sri. P. Narayana, Minister (MA & UD) handing over cheques to land owners in the Amaravati capital city area.

3.4

SUSTAINABLE DEVELOPMENT INITIATIVES

Major greening works have been completed, including – greening of road medians from Gannavaram to Ramavarappdu, Gollapudi to Ibrahimpatnam, Krishna varadhi to Saibaba Temple, Mangalagiri landscaping on either side of the roads from Gannavaram to Ramavarappadu, greenery in cement pots, road avenues from Karakatta to Venkatapalem and Mandadam to IGC, shelterbelt plantation around IGC, greening & landscaping of Transit Government Complex, Tank front of Thullur, Capital City foundation stone area near Uddandarayuni palem etc.

In compliance with regulatory requirements, CRDA applied for and obtained the Environmental Clearance, Consent for Establishment and Consent for Operation on Feb 09, 2016, Feb 20, 2016 and 30.10.2016 respectively.

Drafts of Environmental and social safeguards documents , namely, SESA-ESMF and RPF, for the World Bank funded Amaravati Sustainable Capital City Development Project (ASCCDP) have been finalized after extensive consultations with all stakeholders including public.

GREEN INFRASTRUCTURE

STP at IGC

The Sewage treatment plant became operational at Interim Government Complex designed for a population of 6250, with a capacity of 0.5 MLD. The treated sewage on a daily basis is between 260 – 300 cum and is being used for maintenance of Greenery developed in the IGC.



Landfill site at Krishnayapalem:



Mechanical unit at STP

TEMPORARY LANDFILL SITE ESTABLISHED NEAR KRISHNAYAPALEM VILLAGE IN CAPITAL CITY.



Landfill site Krishnayapalem



Excavated trench for systematic filling

AIR MONITORING STATION AT IGC:

For monitoring of Air quality one online Ambient Air Quality Monitoring Station is established at IGC with support from APPCB.

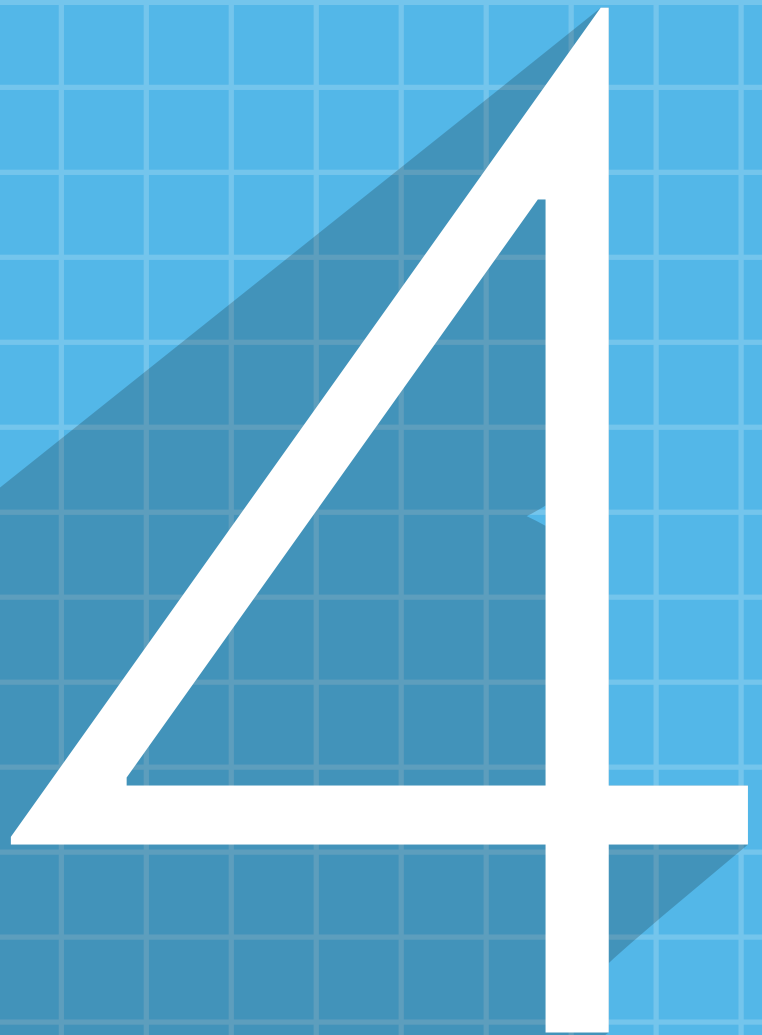


Air monitoring station established at IGC



Honourable Chief Minister Inaugurating NTR Canteen at Velagapuddi on 25th, June 2016

SOCIAL DEVELOPMENT



24,100

Land owners paid annuity

20,605

Families Receiving pension

586

Crores Spent on Social
development (aprox)

4.1

BACKGROUND

In order to develop the Capital city of Andhra Pradesh, AP capital city land pooling scheme (formulation and implementation) rules, 2015" were made by government for land procurement mechanism which is voluntary in nature and based on consensual process of land pooling.

The broad objective of the scheme is to do justice to the families affected by the construction of the livable and sustainable capital city for Amaravati. The following social benefits are mandated as part of the LPS rules.

1. Pensions: provide pension of two thousand five hundred rupees per month per family for a period of ten years to all landless families through a capital region social security fund.
2. Loan Waiver: to provide one-time agricultural loan waiver of up to one lakh fifty thousand rupees per family to farmers as per prescribed procedure of Government.
3. Housing:
 - To issue possession certificates in village sites in order to enable the occupants to regularize house sites.
 - To provide housing to houseless as well as those losing houses in the course of development.
4. Loans: to provide interest free loan of up to 25 lakhs to all the poor families for self-employment.
5. Education and Health: to provide free education and medical facilities to all those residing as on 8th December, 2014.
6. To establish old age homes.
7. To establish NTR canteens.
8. To enhance the limit under NREGA up to 365 days a year per family.
9. To establish skill development institution and provide training with stipend to enhance the skills of cultivating tenants, agricultural laborers and other needy persons.
10. To engage tractors and machinery belonging to residents for construction activity.
11. To issue ownership and transit permission through forest department for cutting and sale of teak trees in private lands duly exempting the relevant fees.

4.2

PROGRESS

As part of the land pooling scheme, Government promised to provide following social benefits to all the residents of the Capital city residing as on 08.12.2014. The abstract of status of the social benefits is given below.

Benefit/Scheme	Indicator	Physical Progress
Annuity Payments	Number of land owners paid annuity (Nos)	25920 consenting land owners
Amaravati Pensions	Number of families receiving pension (Nos)	20,605 identified as on 30.04. 2017
Loan waiver	Number of farmers benefited (Nos)	19518 farmers
NREGA works for 365 days	Number of job cards issued (Nos)	16286 job cards issued
	Number of Man days generated (Nos)	6792 man-days generated in this financial year
Skill development training	Number of candidates trained (Nos)	513 members trained
Rs.25 lakhs interest free loans	Number of loans disbursed (Nos)	To be initiated
Free Health	Number of people screened in health camps (Nos)	6 health camps conducted by NTR Vaidyaseva for 3497 beneficiaries of which 403 were referred.
Free Education	Number of students benefited under fee	To be initiated reimbursement (Nos) G.O M.S No 125 dt 16.05.16 issued
Machinery engaged from locals	Number of machine hours engaged in capital city works	Local Tractors 129 and 9 JCB were engaged to clear 10994.86
House site patta regularization	Number of house site pattas regularized	To be initiated (Nos)
Housing to homeless	Number of houses sanctioned (Nos)	To be initiated
Housing to Project Affected Families (PAP)	Number of houses sanctioned (Nos)	To be initiated
Old age home	Number of inmates (Nos)	To be initiated
NTR Canteen	Number of canteens (Nos)	2 Canteens (Velagapudi and Thulluru)
	Number of beneficiaries (Nos)	1,77,335 people served

Table 4. Physical Progress of Social benefits

Benefit/Scheme	Indicator	Financial Progress (₹)
Annuity Payments	Amount paid	₹ 132.6 Cr released
Amaravati Pensions	Amount paid	₹ 104 Cr released
Loan waiver	Loan waived	₹ 88.67 Cr waived off
NREGA works for 365 days	Wage payment	₹ 5.99 Cr has been spent
Skill development training	Expenditure on training	₹ 3.5 Cr released to APSSDC
	Stipend paid	₹ 0.07 Cr released
Rs.25 lakhs interest free loans	Subsidy paid	To be initiated
	Loan amount disbursed	To be initiated
Free Health	Expenditure under Vaidyaseva	₹ 0.28 Cr released
Free Education	Fee reimbursed	To be initiated
Machinery engaged from locals	Payment received by owners	₹ 0.71 Cr released
Housing to homeless	Subsidy spent	To be initiated
Housing to Project Affected Families (PAP)	Expenditure	To be initiated
Old age home	Expenditure	To be initiated
NTR Canteen	Expenditure	₹ 0.67 Cr
Total		Approx. ₹ 335 Cr

Table 5. Financial Progress of Social benefits

4.2.1. PENSIONS

- Amaravati landless poor families are being paid the pensions (₹ 2500/-) through tabs with biometric system.
- Pension payments are transferred through online transfer to the bank accounts (DBT) of beneficiaries

4.2.2. LOAN WAIVER

- Government has released the required funds directly to Rythu Sadhikara Samstha for onward payment to banks as per Government norms.
- Loan waiver is completed barring certain cases.
- A special grievance redressal cell at Amaravati Capital City office Tullur, is set up exclusively for Amaravati Capital city farmers.

4.2.3. HOUSING

- The new housing policy strategy will be initiated for Amaravati Capital City houseless families once the LPOC are handed over to the farmers.
- Policy for housing to families who lose houses for construction of infrastructure such as roads is under preparation.

- 5% of Land pooling scheme area will be reserved for affordable housing as mandated under the Act.
- The policy for this will be released after completion of land pooling.

4.2.4. SKILL TRAINING AND ENTREPRENEURSHIP DEVELOPMENT (LOANS)

- APCRDA through its Nodal Agency Andhra Pradesh Skill Development Corporation (APSSDC) has been providing skill development training to the youth from the families currently.
- APCRDA will establish skill development institute by partnering with various reputed NGOs / private sector entities etc.
- Second phase training has been initiated in various domains such as mobile technician, AC technicians, beautician, two wheeler motor mechanic etc.,
- Job melas are being conducted regularly.



Skill Development Programs in progress

4.2.5. HEALTH

- Screening camps are conducted in all the villages of capital city area.
- 3 levels of screening camps are conducted in each of the villages.
- First level - Health Camps were conducted in Thullur (25-02-2016), Mandadam (28-02-2016) and in Nidamaru (06.03.2016).
- Second level - Mega health camps was conducted on 4.11.2016 at Thulluru
- Third level - Health camps are conducted at various places such as Thulluru on 21.04.2017 and Mandadam & Penumaka on 29.04.2017
- Government announced upgrading of Tullur PHC to a 30 bedded hospital.



Mega Health Camps being organized in Capital City villages

4.2.6. EDUCATION

- The current policy of fee reimbursement of Government for weaker sections implemented by social welfare/BC welfare departments is proposed to be implemented for Amaravati capital city residents irrespective of income and community.
- It is also proposed to establish model schools and colleges in Amaravati city.

4.2.7. ENGAGING MACHINERY

- An enumeration of all machinery available with residents of 29 villages is done through a household survey;
- 129 tractors and 9 JCBs are identified as part of the survey.
- The machinery like Tractors, JCBs etc., belonging to the residents of Capital city is given preference in the works of capital city.

4.2.8. OLD AGE HOMES

- NTR old age pensions are being paid to the needy old age people, who are the target group of old age homes.
- In the short term it is proposed to hire the services of existing old age homes being run by NGOs in Amaravati capital area.
- Proposal for setting up an old age home under PPP is being prepared and will be sent to government for approval.

4.2.9. NTR CANTEENS



Hon'ble Chief Minister tasting the food at NTR Canteen



- NTR canteens have been established in association with 'Akshya Patra' foundation to provide affordable meals @ rate of Rs 5 /-.
- There are two NTR canteens –
- One at Velagapudi • One at Thulluru
- Common kitchen was established by HKM foundation with an investment of 2.5 crores of which CRDA contributed 35 Lakhs.

4.2.10. TEAK TREE CUTTING

- Collector issued orders to the Forest and Revenue officials to give cutting permissions to the Teak tree owners immediately after receiving any request.
- The details such as 'number of teak trees and their owners were identified in household survey.
- 3137 number of teak trees were permitted for cutting and transportation



An artist's impression of Amaravati

PLANNING

5

217

Sq.km Covered under
Capital City

4246

Acres covered under
Grama Kantams

17515

Acres Coverd under
returnable land
(Residential and
Commercial)

9

Thematic cities planned

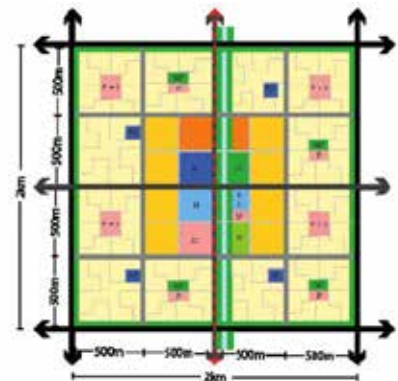
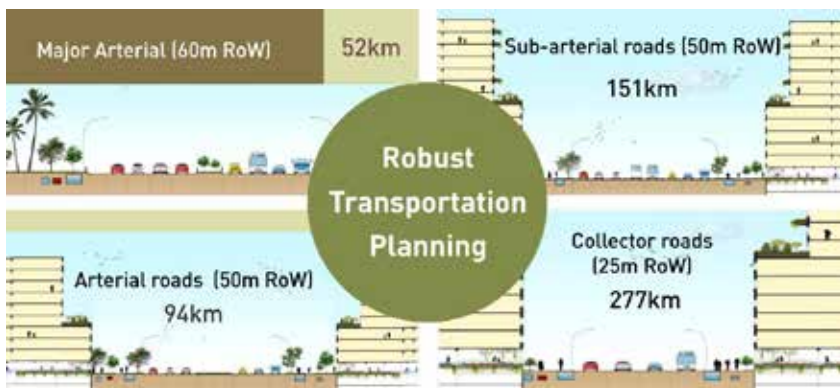
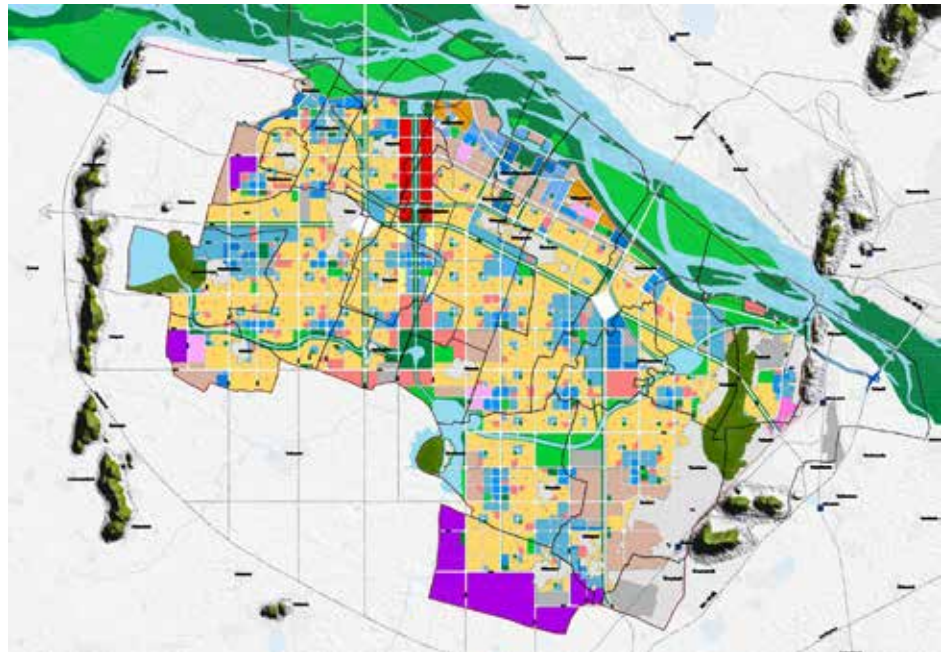
5.1

BACKGROUND

To make the capital city a world-class People's Capital, Government of Andhra Pradesh signed a Memorandum of Understanding (MoU) with the Government of Singapore on 8th December 2014. According to the MoU Singapore Government will prepare master plans at three stages viz., 1) Capital Region Concept Master Plan, 2) Capital City Master Plan, and 3) Seed Capital Area Detailed Master Plan.

Government of Singapore, during December 2014 had engaged Singapore-based consulting organisations M/s Surbana International Consultants Pte Ltd and M/s Jurong to prepare the master plans.

Government of Singapore submitted all the three plans on 20th July, 2015 in Rajahmundry. Subsequently, APCRDA engaged M/s Surbana International Consultants Pte Ltd, hereinafter referred to as Surbana, on 3rd September 2015, to prepare the detailed master plan also for Amaravati Capital City at a cost of ₹ 14.8 Cr.



5.2

MASTER PLAN

5.2.1 AMARAVATI MASTER PLAN (M/S SURBANA JURONG)

The salient features of the master plan are as follows.

- **Capital city area** : 217 km²
- **Settlement Hierarchy (Neighborhood concept):**
 - Town: City divided into 27 towns, each town being a 2 km x 2 km square i.e. about 1000 acres and about 100,000 population (28,000 households). The minor arterial roads dissect each town into four parts. The arterial roads form the periphery of each town.
 - Neighborhood: Each town is divided into 4 equal parts called neighborhoods of 1 km x 1 km size (about 250 acres) with about 25,000 population (7000 households). Primary school, local shopping etc. will be at walkable distance.
 - Community: Each neighborhood is divided into four equal parts called communities of ½ km x ½ km size (about 62.5 acres) with about 6000 population (1700 households).



Hon'ble CM presenting the Master Plan to Mr. S. Iswaran Hon'ble Minister for Trade and Industry, Republic of Singapore.

- Cluster: Each community is further divided into 2 to 4 clusters with each cluster representing a close knit society having its own park and controlled access for vehicles. The size of the cluster varies from 15 acres to 30 acres and the population between 1500 to 3000 (300 to 800 families).
- **Commercial Centers Hierarchy:**
 - The Central Business District (CBD) at the river front houses all important corporate and financial establishments.
 - Regional Centers: 3 numbers.
 - Town centers: 27 numbers each with a metro station and at the junction of two
 - minor arterial roads.
 - Neighborhood centers: about 100.
 - Community shopping: Within each community for local commercial.
- **Road Hierarchy**
 - Major arterial roads - 52 kms with an Row of 60 m.
 - Arterial roads - 94 kms with Row of 50m.
 - Sub-Arterial roads: 270 km with an Row of 50 m
 - Collector roads: 277 with and Row of 25 m.
 - Streets: As per detailed plans under Land Pooling Scheme for each village which is approximately 11000 kms.
 - Non-motorized traffic, green & blue concepts are given prominence.
- **9 Economic theme based cities are part of the city such as Government, Finance, knowledge, Justice, Health, Sports, Tourism, Media and Electronics.**

5.2.2 SMART INTEGRATED INFRASTRUCTURE MASTER PLAN (M/S. AARVEE ASSOCIATES AND GIIC)

- Consortium of M/s. Aarvee Associates and GIIC, China was appointed for preparation of Smart Integrated Infrastructure Master Plan in March 2016.
- Population projections and standards to be adopted for various utilities were finalised by April 2016.
- Demand Estimations for Water, Waste Water, Power, Solid Waste Management, Information and Communication Technology, Gas were estimated and concept plans were prepared accordingly.

- The same was deliberated with various experts formed by GoAP and accordingly necessary modifications were done.
- Draft Master Plans for Transport, Water, Waste Water, Power, Solid Waste and Gas was prepared.
- The same was deliberated at different forums for making the best infrastructure master plans globally.
- Infrastructure in Government Complex:
 - Land pooling schemes were divided in Thirteen Zones which includes Government Complex and Start up area.
 - Detailed project reports for various LPS works is in progress.
 - Tenders will be invited on EPC basis
 - Concept infra plan for government complex is prepared based on the BUA assumed.
 - Upon finalisation of concept plan by Foster and Partners the infra master plan will be revised and detailed design will be carried out.
- Trunk Infrastructure:
 - Trunk infrastructure Detailed Project Reports for Roads, Water, Waste Water is submitted and the same is under review.
 - Tenders will be invited shortly.

5.2.3 BLUE MASTER PLAN (M/S. TCE AND ARCADIS)

- Feasibility Report for Flood Management, Urban Waterways prepared.
- Concept report received for Option 1 and the same was deliberated with Irrigation Department and World Bank
- Technical note for tender strategy and canal lining is received. Technical note on Canal lining is discussed with Irrigation Dept.
- Technical Discussion were held with World Bank in Feb 2017 and suggestions given by World Bank will be incorporated and submitted for funding processing.
- Earthworks/ Excavation works tender will be processed by March 2017

5.3

LAND POOLING SCHEME:

5.3.1 LAND POOLING SCHEME

- The Land Pooling Scheme a 'people - centric' scheme Initiated in Amaravati Capital City has been a success, to a large extent.
- Land Pooling achieved its desired results through active involvement of stakeholders at every stage of the process.
- The land pooling scheme guidelines are framed based on the needs of the emerging capital city of AP to create a new hub of administration, employment, health, recreation, education with world class amenities, facilities and infrastructure.
- Land pooling starts with the pooling of land from the land owner who is willing to hand over their lands under the scheme voluntarily.
- The capital city area is divided into 26 LPS units comprises of 24 revenue villages.
- Each LPS unit holds one Special Deputy Collector and one Tahasildar with supporting staff works for the land owners in preparation revenue records, maps, agreements with authority, concluding the required plot counts.



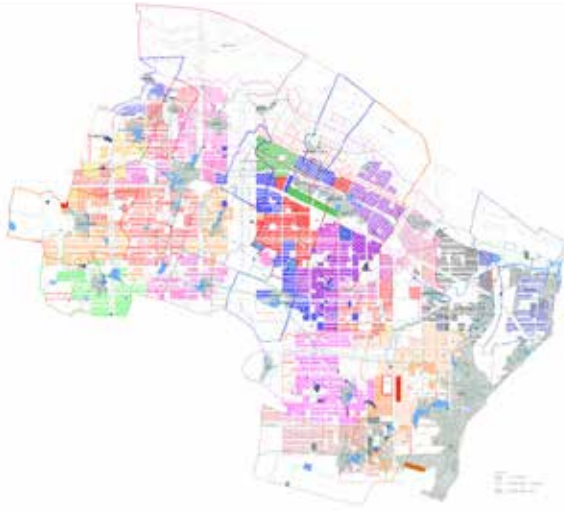
Hon'ble Chief Minister handing over plot allotment certificate to Smt. Adilakshmi of Nelapadu Village

- Land owners give the consent to land pooling under form 9.3 and authority notifies the LPS area under form 9.5.
- Land owner enter into agreement of development with APCRDA in form 9.14 to enable the authority to proceed further for planning, allotment and development of LPS layouts.
- APCRDA has given the options for the allocation of plots to the land owners both for residential and commercial returnable plots.
- Land owners are given 498 varieties of residential categories, 493 varieties of commercial categories totally 991 varieties of category options for selection of the size of the plot required.
- Further the plot codes are opted by the land owners in form 9.18 produced to the Competent Authority.
- The Competent Authority checks the options given by the land owner with the revenue records and forwards the data of the required plots and category to the Director (lands) and Director (estates) and finally sends the data to the planning department.
- This data does not contain any ownership details of the plot and contains the size, category of the plot and number of plots to be planned.



Commissioner explaining to farmers about village layout

5.3.2 MAP



- This is a map showing the tentative location of the allocation of the returnable residential and commercial plots.
- This map is displayed, explained and discussed with the land owners to create more awareness.
- As per the farmers views/demands returnable plots are divided as jareebu and dry and proposed within the same village boundary to the major extent possible.
- Draft LPS layout is prepare taking these inputs from farmers within in the frame work of the planning principles.
- The farmers' demands are as follows.
 - Returnable plots within the same village or nearby villages.
 - Choice to choose different sizes of plots.
 - Jareebu returnable plots within jareebu lands.
 - Different parcel of lands in the same village should be given returnable plots together.
 - Plots should orient to true North.
 - Bigger plots on bigger roads.
 - No road hits to the residential plots (Vasthu Compliant).
 - No chamfers to the plots and the plots should be rectangular.
 - Plot allotment by category wise (size) through lottery.
 - The farmer should get his entire same category (size) of plots side by side.
- Accordingly plot allotment policy is approved by the Govt. vide: G.O. M.S.NO:207 Dt 08-08-2016.
- Farmers can choose the plots on his own or can join with his family members or friends and can choose joint allotment of plots.
- Farmers were also given option to choose some plots on their own and some can join with others.
- Farmers can also choose residential plots on their own and can join with other for the commercial plots.
- Totally around 5000 options with all combinations are received from farmers.
- For the balance area, the farmers can request undivided shares in an earmarked standard plot identified by CRDA or bonds having transferable development rights (TDR Bonds).
- The plot allotment policy broacher in Telugu is made available to the land owners for better information.

- Accordingly Draft Layouts were prepared and notified for each village in form 9.20 uploaded in APCRDA website, notified in the district gazette and given 30 days time for filing objections/suggestions.
- After compiling the received objections/suggestions by the Competent Authority, several consultation meeting were held both at villages and in APCRDA office.
- Accordingly Final LPS Layout was prepared notified for each village in form 9.22, the final layout maps are displayed at the village panchayat office, uploaded in APCRDA website, notified in the district gazette.
- The lottery date was announced after few days and the returnable plots were allotted to the land owners through lottery.

5.3.3 PLANNING PRINCIPLES

- This concept of the city planning is the best international residential neighborhood model which avoids unwanted traffic in the neighborhood.
- Plots facing 25 mts and above roads will have internal roads for car access.
- Communities centered around primary school and primary greens and within 5 minutes of walking distance
- Access to neighborhood facilities and transport in 10 minutes walking distance
- Walk to work communities
- Higher density and big plots like D (1440 sq. yd to 5940sq yd) and E (6000sq yd and above) category plots along the wider and major roads with internal roads at the rear to dissipate traffic easily but will have pedestrian and cycle entry onto the major roads.
- 15.6 mts is the min ROW in residential to accommodate underground utilities and walkways connecting to 17m,25m, 50m(sub-arterial roads & arterial roads) and 60m wide roads(major arterial roads)
- Heterogeneous mix of plots in all the communities.
- Several rounds of meetings are conducted both in all the villages and in APCRDA office with farmers and discussed various issues such as planning, implementation, infrastructure, urban design, development control etc.
- With due considerations of objections/suggestions final layouts are prepared and notified.

5.3.4 LOTTERY PROCESS

- The respective villagers are notified about the lottery date, venue and the time of lottery to all the villagers participated in the LPS thru SMS, Local dandora and other means.
- The public representatives are invited to conduct and witness the lottery like
 - Hon'ble MLA
 - ZPTC
 - MPTC
 - Sarpanch
 - And other important personal of the village
- The following committee has been constituted to conduct the lottery in transparent process
 - Joint Collector – Guntur Chairman
 - Director Lands
 - Director IT
 - Director Planning
 - Competent authority
- Senior officers like District Collector, Commissioner CRDA and HbleMinistrers also attended the lottery process



Farmers participating in the plot allotment programme



Plot allotments under lottery process in progress

- The Final LPS layout of size 12'x12' containing the lottery code and plot locations are displayed at the respective panchayat office and at the lottery venue apart from placing it in the web
- Farmers were also given handouts containing the maps of layouts and plot codes
- The Lottery process and the Planning process is explained to the farmers before the lottery is conducted.
- It is mandatory to conduct at least one trial run both in residential and commercial lotteries in the presence of the public representatives and before the public
- The results are printed and kept for public viewing. The time of trial run and the water mark as "TRIAL" is printed on the sheets
- The public can demand for any number of trial runs till all the public are satisfied about the lottery process and such trial runs are printed and signed by the committee for any reference and for public viewing.
- On complete satisfaction and on public demand FINAL lottery will be done by the public representatives OR the public are called onto the dias to key the final lottery both in respect of Residential and commercial plots allotment
- Immediately after the final plots allotment through randomized plot allotment (Lottery), the results are sent each and every farmer through SMS



Plot allotments under lottery process in progress

- On completion of the lottery the allotment, the lottery results are displayed in the web site of the APCRDA and individual allotment letters are generated and handed over to the farmers then and there itself
- The results are also uploaded to the web for viewing and downloading the allotment letters by the farmers.
- All the results including the trial runs are available with the respective CAs for viewing.

5.3.5 PEG MARKING

- The returnable plots to the landowners are marked on land by using a DGPS machine (Differential Global Positioning System) and pegs are marked on the boundaries.
- The Survey of India has marked six Master Control Points (benchmarks). These benchmarks are taken as reference for the DGPS Survey.
- The combination of DGPS and GPS systems provides greater accuracy than GPS and Conventional survey methods.
- The accuracy of DGPS machine is also very high and is most widely used in many developed and developing countries in the world. In India DGPS is used in Defense, Navy and Air Force.
- DGPS (Differential Global Positioning System) co-ordinates of the plots are fed with Control units.

- The points of the plot are demarcated on the ground with the help of a Rover using the STAKEOUT method.
- Four corner points of a plot are demarcated with the help of a DGPS machine on ground.
- A 7" wide, 1'6" deep pit is dug, and 4"X4", 3'0" deep pre-cast concrete posts are planted in the marked corner points. The concrete posts are planted 1'6" deep in the ground.

5.3.6 PLOT REGISTRATIONS:

- Government of Andhra Pradesh (GOAP) bears all the costs incurred for registration of farmer's land to CRDA as well as registration of returnable plots to farmers by CRDA.
- Government also bears the cost of registration if the allottee one time registers the plot to his own family member (i.e. spouse or children)
- CRDA has opened help desk / facilitation center in the Sub Registrar's office to ease the registration process for the farmer/landowner.
- Registration documents are prepared by competent authorities to reduce the burden on farmers/landowners and fasten the registration process.
- Each registration document is provided with three key maps for clear understanding.



Commissioner handing over plot allotment certificate to the farmers

- Site plan with surrounding features like roads (with dimensions), adjacent plots etc.
- Plot dimensions derived from DGPS measurements.
- Block plan includes plot location, road access and all the plots in the block.
- Colony Map with blocks, plots and public facilities (if any) within the colony

Below are the Number of Options of Plot Sizes given to the Farmers for returnable Plots :

Options	Residential	Commercial
Individual option	494	497
Joint plot option	494	497
Part Individual & part joint plot option	494	497
Individual residential & commercial joint option	494	497
Individual commercial & residential joint option	494	497
TOTAL Options	2,470	2,485
Grand Total	4,955	

Table 6



Artist's Impression of Amaravati City

Details of Returnable Plots, both Residential & Commercial Village wise as on 27-04-2017

Sl. No	Name of the Village	No. of Farmers	Plots Allotted															Grand Total	Date of Lottery Conducted
			Residential			Villas			Total Residential Plots	Commercial			Lanka Lands						
			Dry	Jareebu	Total	Dry	Jareebu	Total		Dry	Jareebu	Total	Residential	Commercial	Total				
1	Nelapadu	768	1092	0	1092	55	0	55	1147	769	0	769				1916	25-Jun-16		
2	Nelapadu (2nd lottery)		75	0	75	2	0	2	77	25	0	25				102	27-Aug-16		
3	Sekhamuru	1163	1724	0	1724	97	0	97	1821	1197	0	1197				3018	21-Sep-16		
4	Sekhamuru (2nd lottery)		7	0	7	1	0	1	8	5	0	5				13	27-Sep-16		
5	Pichukalapalem	368	674	0	674	0	0	0	674	442	0	442				1116	27-Sep-16		
6	Dondapadu	146	203	0	203	0	0	0	203	163	0	163				366	27-Sep-16		
7	Inavolu	810	1283	0	1283	41	0	41	1324	910	0	910				2234	1-Oct-16		
8	Inavolu (2nd lottery)	20	12	0	12	3	0	3	15	11	0	11				26	08-Feb-17		
9	Abbrajupalem	497	476	263	739	0	41	41	780	581	0	581				1361	1-Oct-16		
10	Borupalem	297	352	128	480	0	0	0	480	341	0	341				821	19-Oct-16		
11	Kondamrajupalem	476	452	259	711	0	0	0	711	547	0	547				1258	19-Oct-16		
12	Nekkallu	794	1340	0	1340	76	0	76	1416	900	0	900				2316	21-Oct-16		
13	Malkapuram	233	344	7	351	0	0	0	351	261	0	261				612	21-Oct-16		
14	Krishnayapalem	688	935	351	1286	0	0	0	1286	859	0	859				2145	20-Dec-16		
15	Lingayapalem	450	0	748	748	0	0	0	748	528	0	528				1276	24-Dec-16		
16	Uddandarayunipalem	226	0	349	349	0	0	0	349	254	0	254				603	24-Dec-16		
17	Venkatapalem	842	574	651	1225	0	0	0	1225	439	515	954				2179	31-Dec-16		
28	Venkatapalem (2nd lottery)	125	6	23	29	29	6	18	24	109	80	189				242	24-Apr-17		
18	Velagapudi	1088	1592	242	1834	0	0	0	1834	1079	186	1265				3099	3-Jan-17		
19	Thullur	2031	3253	0	3253	0	0	0	3253	2155	0	2155				5408	3-Jan-17		
20	Rayapudi	1288	919	1002	1921	0	0	0	1921	1457	0	1457				3378	7-Jan-17		
21	Ananthavaram	1208	2121	0	2121	101	0	101	2222	1323	0	1323				3545	10-Jan-17		
22	Kuragallu	1921	2917	0	2917	0	0	0	2917	2201	0	2201				5118	11-Jan-17		
23	Nidamaru	1589	2010	0	2010	0	0	0	2010	1599	0	1599				3609	12-Jan-17		
24	Mandadam	1635	1450	1200	2650	0	0	0	2650	1055	896	1951				4601	19-Jan-17		
25	Mandadam (2nd lottery)	66	7	92	99	0	0	0	99	8	64	72				171	08-Feb-17		
26	Nowlur-1	1487	0	1713	1713	0	0	0	1713	0	1408	1408				3121	26-Jan-17		
27	Nowlur-2	2309	0	1922	1922	0	0	0	1922	0	1584	1584				3506	26-Jan-17		
Grand Total		22525	23818	8950	32768	376	41	417	33185	19115	4671	23786				57160			

Table 7

5.4

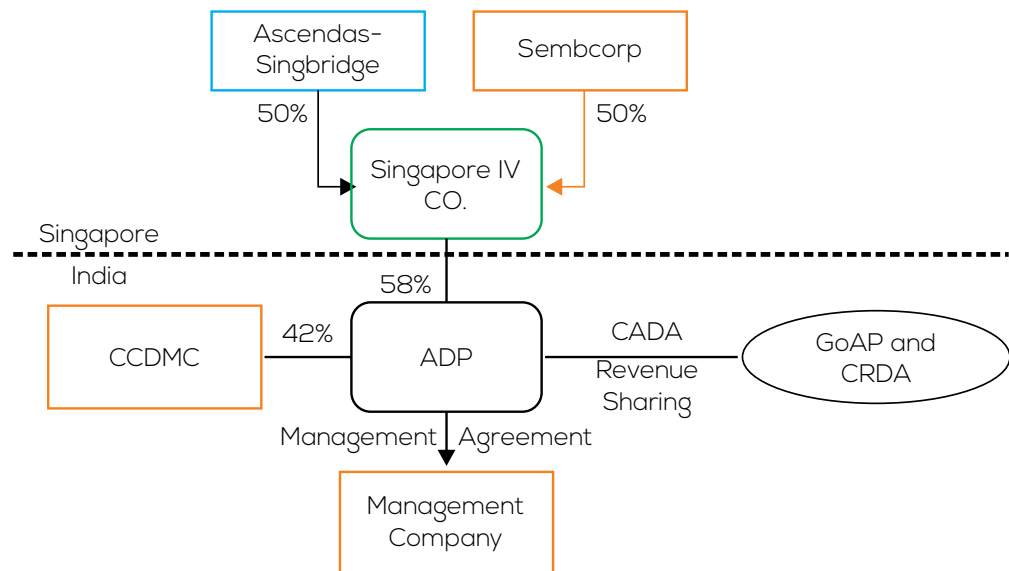
START-UP SWISS CHALLENGE PROCESS

1. On 21st March 2016, the Singapore consortium comprising of Ascendas-Singbridge Pte. Ltd. and Sembcorp Development Ltd. submitted a revised Swiss Challenge Proposal for the development of 6.84 sq. km. of Seed area in the Capital city.

2. The key features of the proposal are as follows,

a. following institutional structure was proposed in the proposal

Indicative Structure - Start-Up Area (Tier1/ Infrastructure Development)



- Develop the Start-Up Area (SUA) of 6.84 sq km and deliver Public Utility Infrastructure over 15 years in 3 phases in JV with CCDMC;
- Develop and sell plots inside SUA to 3rd parties for development as per Master Plan;
- Undertake Catalytic Development of 0.8 mn sft either directly or through a SPV with same shareholding
- The project is proposed to be developed as per following phasing,

Phase	1	2	3	Total
Land in Hectares	265	208	211	684

f. The total project cost as proposed

Estimated cost associated with the proposed Project

S. No	Particulars	Amount
1	Land cost and stamp duty	176
2	Infrastructure cost outflow	19,816
3	Consultant and professional fees	991
4	Contingencies	624
5	Development Management fees	1,356
6	Salaries, fringe benefits etc.	1,792
7	General Management fees	597
8	Operating expenses	519
9	Investment promotion, Advertising & Travelling	1,182
10	Pre-operating expenses – Travel & Set-up costs	45
11	Pre-operating expenses – Consultants charges	80
12	Interest Cost	725
13	Cost of catalytic development	3,469
	Total Project Cost	31,373

Table 8

g. Significance of the project



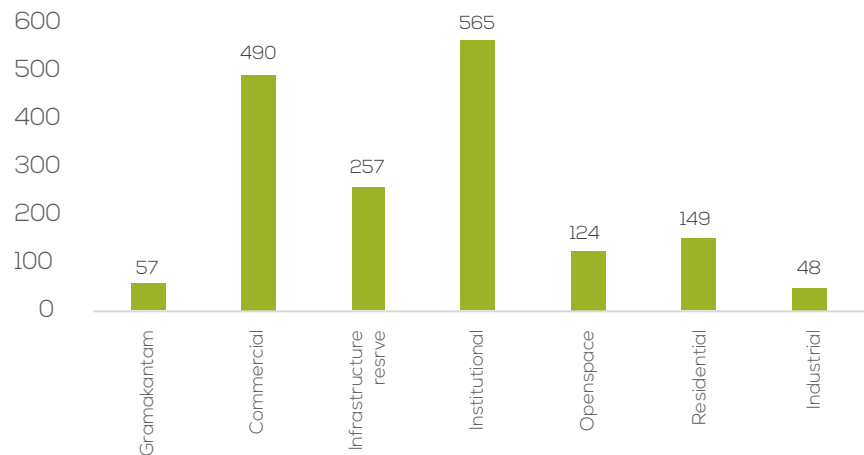
3. On 4th Jul 2016, the Govt. vide GO MS No. 170 approved the Swiss Challenge proposal and authorized the Commissioner, APCRDA to invite counter challenge proposals to the Swiss challenge proposal in compliance with APIDE Act, 2001, through International Competitive Bidding.
4. Accordingly, on 18th Jul 2016, the APCRDA floated RFP calling for competing proposals under Swiss Challenge approach through International Competitive Bidding (ICB). A single staged procedure was adopted.
5. Subsequently the process was stuck due to certain petitions filed in the Courts. Meanwhile the governing APIDE Act 2001 was amended vide an Ordinance post which the ongoing tendering process was terminated
6. On 2nd Jan 2017, vide GO MS No. 1, the Govt. amended the GO MS No. 170 in view of the amendments made to the APIDE Act, 2001. Vide this GO, the Commissioner was authorized to call for the bids and submit the outcome to the Govt.
7. The Commissioner, APCRDA invited competing counter proposals through International Competitive Bidding for selection of master developer for development of 6.84 Sq. Km seed start up area of Amaravati Capital City through Swiss Challenge Approach under APIDE Act, 2001 on 3rd Jan 2017 and the last date for RFQ submission was on 21st February, 2017 at 15:00 Hrs. The Tender on e-procurement portal, was opened on 21st February, 2017 at 16:00 Hours as scheduled. No RFQ submissions were found in the www.apcprocurement.gov.in portal against the Tender.
8. The Commissioner, APCRDA opened the revenue share cover submitted by the OPP and found that 5% (five percent) on the Gross Sales Revenue may be given to APCRDA by Amaravati Development Partner (ADP), as per the terms of CADA and its amendments.
9. As per direction of the GoAP, the High Powered Committee (HPC) conducted negotiations with Singapore Consortium (OPP) for higher revenue share and accordingly Government, vide G.O. Ms. No. 179 MA&UD (CRDA.2) Department, Dated: 08.05.2017, approved the recommendations of the HPC for acceptance of the revenue share offered by the Original Project Proponent (OPP) (5% in Phase-I, 7.5% in Phase-II, and 12% in Phase-III) of the gross sales revenue as per Concession and Development Agreement (CADA) and its amendments in the overall interest of development of Amaravati and finally selected the Singapore Consortium (OPP) comprising of Ascendas-Singbridge Pte. Ltd. and Sembcorp Development Ltd as Master Developer for the development of startup area of 6.84 Sq. Km Seed Capital Area of Amaravati.

5.4.1 LAND AVAILABILITY

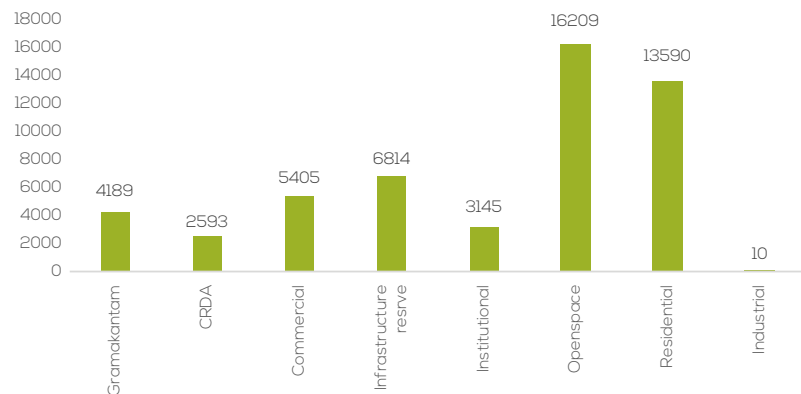
Land	ADP	Outside ADP
Gramakanta	57	4189
CRDA		2593
Commercial	490	5405
Infrastructure reserve	257	6814
Institutional	565	3145
Openspace	124	16209
Residential	149	13590
Industrial	48	10
ADP	1691	51955

Table 9: Land availability in capital city

ADP (ACRES)



OUTSIDE ADP



Note

- Residential represents R1, R2, R3, R4 Zoning districts.
- Commercial represents C1, C2, C3, C4, C5, C6, S3 and I1 Zoning districts.
- Institutional represents S1 and S2 Zoning districts.
- Infrastructure reserve represents U1 and U2 Zoning districts.
- Industrial represents I2 and I3 Zoning districts.
- Open Space and Recreation represents P1, P2 and P3 Zoning Districts.

5.5

AMARAVATI GOVERNMENT COMPLEX

Amaravati Government Complex is envisioned to become the Nucleus of Cultural & Aspirational Symbolism and Identity for Amaravati Capital City and people of Andhra Pradesh at large.

Spread over about 1350 Acres, the Government Complex would essentially be the hub of State Administration and Governance. The area would house Iconic Civic Institutions of Legislature, High Court, Secretariat, Raj Bhavan and their related eco system. Housing for various Government functionaries – Chief Minister, Ministers, Members of Legislature, Judges, AIS Officers and other Govt employees – would also be provided in the Government Complex.

Amaravati - The People's Capital

Building a Sustainable Vision

Conceptual Master Plan of Government Complex



Apart from State Govt establishments, the Government Complex would also have space for Central Government Institutions and an International Diplomatic Enclave with various International Organizations, Consulates, Missions and Cultural Centers.

A key aspect of the formulation of the Government Complex is to make it 'inviting and accessible' to people. Amaravati being the 'People's Capital', a significant part of Government Complex would have a contiguous network of public spaces and private Mixed uses for people. The idea is to have a symbiotic co-existence of 'People' and 'Government'. The major public spaces include the Riverfront, the Central Vista and the Capital Square, which would become places for people to come and interact with their Capital. Also, Mixed uses in the area – Residential, Offices, Recreational, Commercial, Cultural – would keep it vibrant and active at all times.

The Government Complex would have a generous allocation of Green (Vegetation) and Blue (Water) spaces to create a pleasant ambience for 'People' and 'Government' to live, work and play.



Hon'ble Union Minister Sri. Arun Jaitley and Hon'ble Union Minister Sri. Venkaiah Naidu along with the Hon'ble CM during the Foundation Laying Ceremony for the Government Complex

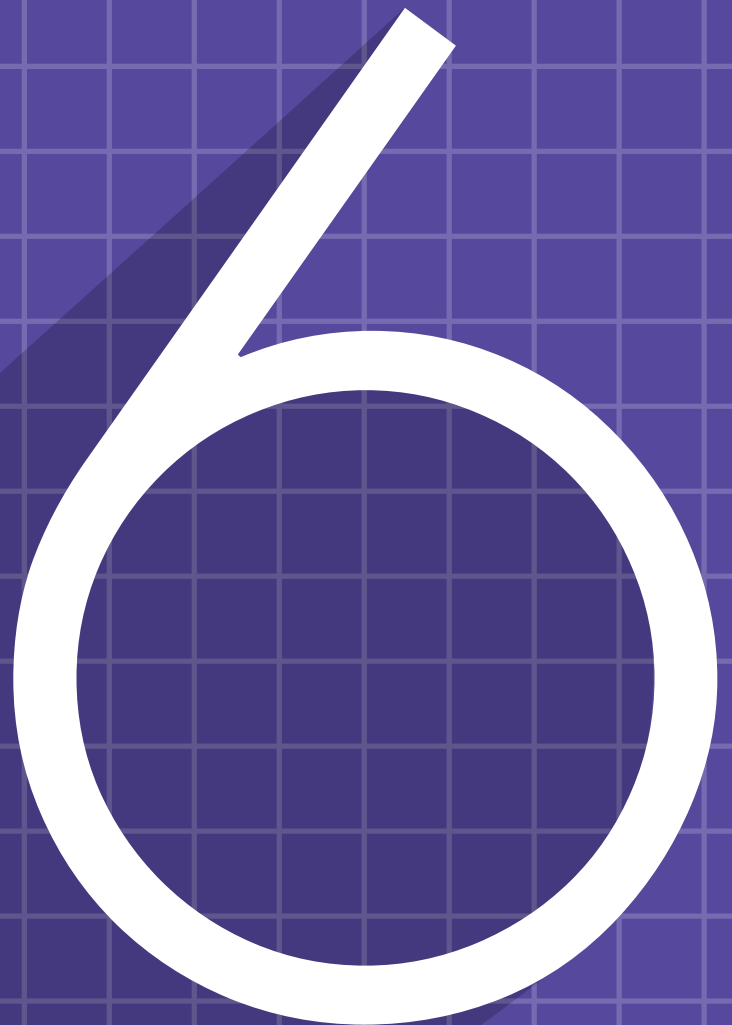
5.5.1 PROJECT TIMELINE:

- Appointment of Foster + Partners & Consortium as Master Architect (Masterplan of Government Complex of 1350 Acres, Architectural Design of Legislature, High Court buildings): 30th December 2016
- Contract Signing with Foster + Partners & Consortium: 4th February 2017
- Concept Masterplan and Conceptual Design of Legislature & High Court buildings: May 2017
- Detailed Masterplan of Government Complex: August 2017
- Schematic Design / Lead details for Legislature & High Court buildings: September 2017
- Commencement of Pile foundation work for Legislature High Court buildings: October 2017
- Completion of Detailed Design of Legislature & High Court buildings: November 2017
- Commencement of Shell & Core Construction work for Legislature & High Court buildings: December 2017
- Completion of Construction of Legislature & High Court buildings: March 2019
- Appointment of Architects for Secretariat + Govt HoDs Complex: June 2017
- Detailed Design for Secretariat + Govt HoDs Complex: December 2017
- Construction of Secretariat + Govt HoDs Complex: January 2018 to March 2019
- Appointment of Architects for VIP Housing: June 2017
- Detailed Design for VIP Housing: December 2017
- Construction of VIP Housing: January 2018 to March 2019



Minister (Municipal affairs and Urban Development) Sri. P. Narayana alongside representatives from the Ministry of Trade and Industry, Government of Singapore.

PROJECTS



45

Acres Approx. size of the
site Interim. Govt. Complex is
being built

1368

Acres Size of the
Government Complex being
designed by world-class
architect

6.1

INTERIM GOVERNMENT COMPLEX AT VELAGAPUDI

6.1.1 SALIENT FEATURES OF THE PROJECT (EPC-CIVIL BUILDINGS):

- The Government of Andhra Pradesh sanctioned for awarding the works of Construction of Interim Government Complex comprising 6 Buildings of G+1 (Designed for G+7) vide G.O.Ms. No.47, MA&UD dated 19.02.2016.
- Components of the Project:
 - The total construction area of 6 buildings : 6, 00,000 Sft.
 - Area covered by the buildings : 27.082 Acres.
 - Area covered by external parking: 18 Acres.
 - Total area of Interim Government Complex: 45.129 Acres
 - Office for the Hon'ble Chief Minister: Building -1
 - Assembly and Council: Building -6
 - Secretariat: Building -2,3,4 & 5

6.1.2. CONTRACT DETAILS OF ALL PACKAGES OF WORKS AT IGC:

S. No.	Name of the Agency	Package No.	Amount Rs. Cr	Date of issue of LOA
EPC Works (Civil Building Work)				
1	SPCL	Package I - Building 1&2	67.02	20.02.2016
2	Larsen & Toubro	Package II - Building 3&4	66.98	20.02.2016
3	Larsen & Toubro	Package III - Building 5&6	66.98	20.02.2016
	Total (EPC Works)		200.98 Cr.	(A)
Internal Finishes, MEP and External Infra Works				
4	SPCL	Package 1 - External Infra	23.30	06.06.2016
5	Larsen & Toubro	Package 2 - External Infra	59.72	06.06.2016
6	SPCL	Package 3 - Building 1 & 2 Interiors and Internal Finishes and MEP	66.15	06.06.2016

S. No.	Name of the Agency	Package No.	Amount Rs. Cr	Date of issue of LOA
7	Larsen & Toubro	Package 4 - Building - 3 & 4 Internal finishes and MEP works	72.51	06.06.2016
8	Larsen & Toubro	Package 5 - Building - 5 & 6 Internal finishes and MEP works	62.17	06.06.2016
	Total (Interiors, Internal Finishes and MEP Works)		283.85	(B)
	Total		484.83 Cr.	(A+B)
	Access Road to IGC		30.36	
	Grand Total		Rs515.19Cr	

Table 10: All packages contract details



Panoramic view of the Interim Government Complex

6.1.3 PROJECT TIMELINE:

AP Secretariat Buildings started on 17th February 2016 and B2 to B5 occupied by Secretariat employees from 3rd Oct' 16. Building No.1 First floor C M office occupied from 30th Nov' 2016

6.1.4 TECHNICAL DETAILS OF THE PROJECT:

A. Structure:

- Constructed Built Up area (G+1 floor) =9397 sq.m
- The structure is designed for G+7 floors.
- The foundation of the structure is end bearing pile driven up to hard strata at 25 to 30m deep.
- Massive pile of 900 & 1200 dia considered for stability.
- Suspended slab proposed at ground floor level to avoid settlement.
- 1000X1000 size columns are provided at spans of 12 mts for achieving column freespace.
- The main beams are precast pre tensioned with Structural steel secondary

B. Fire Fighting

- Fire sprinklers system provided aids in restricting the fire from spreading above and below false ceiling.
- Fire hydrants provided in the shafts and vicinity of the buildings helps in supplying water to fire tenders.
- In addition to the above ABC type and CO2 type fire extinguishers are also provided for reducing the fire hazards.

C. HVAC

- Most advanced VRV (variable refrigerant volume) type air conditioning system has been provided.
- Multiple indoor units connected through copper pipe and Y joints to single outdoor units fixed on the terrace.
- Fresh air ducts have been provided for effective functioning of the air conditioners.
- Treated Fresh Air (TFA) has been introduced to the buildings to replace the stale air in toilets, pantry and kitchen.
- Ductable package air conditioning systems have also been used for locations where cassette type indoor units cannot be provided.



Greenery in and around IGC

D. Electrical Power

- 33KV EB supply has been provided dedicatedly to the IGC premises from two different grids, to endure the availability of Power from APSPDCL at all times.
- 2500KVA and 2000KVA transformers with OLTC has been provided to stepdown the 33KV supply.
- 750KVA-4nos. And 500KVA-8nos. DGs have been provided to cater the power requirements for the IGC premises in case of EB power failure.
- Auto matic change over witch for continous power supply has been provided.
- 3X200Kva UPS has been provided to each building to cater the lighting loads in case of power failure. UPS power has also been provided to various ELV systems in the buildings.

E. Lighting:

- Sensor based energy efficient lighting system has been provided in the rooms running on the raw power and UPS power, during raw power failure.
- Glare free reflective lighting is provided in the Conference halls and VIP Chambers.
- Bollards and 4-Meter high light poles have been provided for illuminating the Landscaped area and Foot paths.
- Double armed 9-Meter High poles with LED lights have been provided for illuminating the wide roads.
- 30Mts. High mast lights have been provided at various places to illuminate the vast stretches of parking.

F. AV Systems:

- Audio visual system consisting of Mikes, Speakers, Camera, and display screen have been provided in the conference halls of all the Buildings.
- Video Conferencing calls within the premises and entire state enabled through data net working is provided for easy Administrative operations of the state.

G. CCTV System:

- Bullet Cameras and PTS cameras have been provided within the buildings, external periphery and other critical places to monitor the safe and soundness of the IGC premises.

H. Data Net Working:

- Advanced fiber net working has been done connecting the IG complex to the rest of the world at 10G speed with various security measures through fire wall.

I. Fire Alarm System:

- Advanced Fire alarm system integrated with smoke detectors, heat detectors and response indicators, both above & below false ceiling are provided.

J. Water Treatment & Plumbing System:

- Water treatment plant based on rapid sand filter with Pressurised distribution system is provided for water supply to the buildings.
- Water efficient toilet fixtures have been provided in the buildings.

6.1.5 PROJECT IMPORTANCE:

- The occupation of Secretariat employees has done within 7 months of starting of the Buildings i.e Building no.1 to Building No.5
- Per each Floor 500 number of staff are accommodated.
- In addition to Building services like electrification, HVAC ,Fire Fighting all Furniture for topmost officer to Section officer with storage facilities are provided
- All advanced facilities like Video conferencing halls, command control centers, canteen, Banking facilities, Post Office, Health Centre, Gym, Crutch, storage Optimizer units , WI-FI, sensor based energy efficient lighting, Access control based entry system, IT, solar fencing with latest security arrangements etc. provided under one complex.
- All Buildings are accommodated with safe evacuation staircase in case of Emergency.

6.1.6 AP LEGISLATURE BUILDING



The Andhra Pradesh Legislature building is isolated from the other secretariat buildings as per its significance of functionality and Security.

Salient Features of AP Legislature Building are enlisted below.

A. Structure:

- Constructed Built Up area (G+1 floor) = 8369 sq.m
- The structure is designed for G+7 floors.
- The foundation of the structure is end bearing pile driven up to hard strata at 25 to 30m deep with 160 Piles supporting 108 Columns
- Massive pile of 900 & 1200 dia considered for stability.
- Suspended slab proposed at ground floor level to avoid settlement.
- Double height column free, curvilinear space planned for Assembly & council hall with large span ie. 22 meters long roof beams.
- The area of Assembly Hall is 7532 Sq. Ft seating capacity for 231 members.
- The area of Council Hall is 4626 Sq.Ft with seating capacity for 90 members.

B. Interiors and Architecture:

- Assembly hall seating arrangement planned for 231 members, to accommodate both the houses during joint sessions and council hall planned for 90 seats.
- Unique curvilinear & radial false ceiling provided in assembly & council halls.

- Interior wall of the halls have been aesthetically treated with fabric & wooden wall panels.
- Both wall & ceiling surface were treated acoustically for uniform sound absorption to aid SRS system
- Combination of both direct and indirect lighting have been provided for glare free illumination of the halls.
- Traditional colour code for both carpet and upholstery have been provided differentiating upper & lower houses.
- Racked seating arrangement has been done for achieving eye contact between speaker/ chairman & the members.
- Advanced fire protection systems have been installed for the security of safety of the occupants.
- Designated galleries for visitors, VIP's and press are provided for observing the proceedings.
- Latest variety of hands free mikes of Beyer Dynamics make, which are flat having in built microphone, interpreter system, works on corridor pattern and which also can be used for voting are provided in both the houses.

C. Project Timeline:

AP Legislature Buildings started on 18th August 2016 and completed in 192 days for occupation.

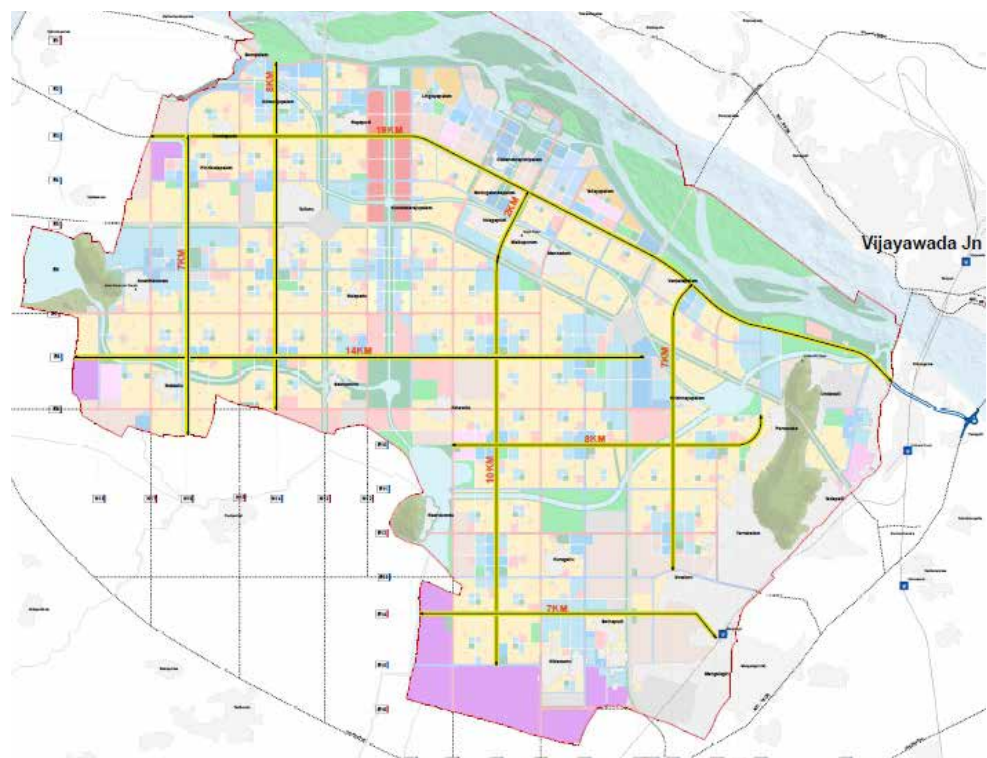
D. Project importance:

- The occupation of legislature employees has done Within 5 months of starting of the Buildings.
- In addition to Building services like electrification, HVAC ,Fire Fighting all Furniture for topmost officer to Section officer with storage facilities are provided
- All advanced facilities like Video conferencing halls, WI-FI, sensor based energy efficient lighting, Access control based entry system, IT, solar fencing with latest security arrangements etc. provided.
- In Technical rooms of Both Houses having 11 language translators are provided in built in Mikes.
- Audio and Video conferencing system facility is available in both the Houses.
- Both House proceedings can be heard by all the employees of the Legislature in addition to Public addressing system.
- In the first floor, a total of 52 rooms including galleries for both the houses, two committee meeting halls, Cabins for Ministers, rooms for floor leaders, Joint & Deputy Secretaries rooms, 150 work stations for Secretariat staff of both Assembly and Council, Library, press and other services are provided.
- Parking for cabinet Ministers and above cadre is provided with in the premises and rest MLAs, MLCs, other staff & Visitors parking is provided out side the premises.
- The building has entrances on four directions and staircases on four corners for free movement and quick evacuation during emergency

6.2

CONSTRUCTION WORKS IN AMARAVATI CAPITAL CITY:

- Seed Access Road (Down Town Road – 4 lanes, approximately 18.30 km) construction work is in progress and expected to be completed shortly.
- Phase I Roads (7 Roads, 4 packages, 64 km) works are awarded and expected to commence shortly and anticipated to complete by Feb 2018.
- Dozing of Phase II Roads is in progress



Map showing seed access and 7 priority roads



6.3

INNER RING ROAD AND OUTER RING ROAD FOR ANDHRA PRADESH CAPITAL REGION

APCRDA initiated the Pre-feasibility and feasibility study and Detailed Project Report (DPR) of Inner Ring Road (IRR) for Andhra Pradesh Capital Region (IRR). APCRDA engaged M/s STUP Consultants through open bidding process. The consultant submitted the alternative alignment options report along with Traffic Assessment report to APCRDA.

As per the assurance of MoST, GoI given to GoAP, NHAI initiated the preparation of Feasibility Study Report for each Sub-Project for constructions of Outer Ring Road (ORR) around Vijayawada-Guntur-Tenali Urban Agglomeration in the State of A.P. on Green Field Alignment under NHDP Phase-VII. NHAI engaged M/s Aarvee Associates as the consultants through open bidding process. The consultants came up with alignment options for finalising the final alignment and same was presented to Special Chief Secretary, T, R&B Dept. GoAP wherein APCRDA was also invited to give suggestions and inputs to finalise the alignment.

In this regard the various alignment options of IRR and ORR for APCRDA were presented, discussed in detail with the Hon'ble Minister, MA & UD Dept. and Hon'ble Chief Minister in APCRDA review meetings during last week of November held on 23.11.2016, 30.11.2016, 07.12.2016 and 14.12.2016 covering various concepts of Ring Roads, Case studies of Ring Roads, Learning from national and international case studies, Reviewing the proposed Projects and various master plans of APCRDA, Alternative alignment options of IRR and ORR, Recommended Alignment of IRR and ORR for APCR. Subsequently, based on the discussions and inputs three (3) alignment options for IRR and ORR were developed and as per the directions of the Hon'ble Chief Minister the same were presented in Head of Departments (HoD) meeting followed by State Ministers Cabinet Committee meeting on 15.12.2016. The recommended alignments by the committee were 97.5 km length alignment option as Inner Ring Road (IRR) and alignment option with 186 km as Outer Ring Road (ORR) along with potential development nodes, growth centres, satellite towns for Andhra Pradesh Capital Region (APCR). Also suggested that the Ring Road alignments shouldn't be limited as major road but utilizing the alignments as growth corridor considering the future potentials of Transit Oriented Developments (TOD), nodal development, satellite towns, growth centres in the region as economy driving engines.



IRR - Inner Ring Road for APCR

Technical Specifications:

- Total Length: 97.5 km
- Proposed Right of way (RoW): 75 mt (GF): 60 (BF)
Green field Alignment (67.5 km), Proposed NH bypass (15km) + Improvement of NH 65 (15km)
- Krishna River Bridges
Eastern Bridge: 2km, Western Bridge: 2.5km
- Cost of project: 6878 Crores (land cost + Road Development)

Salient Features:

- Decongest Vijayawada city major roads
- Create direct access to:
Amaravati activity centers, Gannavaram Airport, About 45000 acres of land open up development



ORR - Outer Ring Road for APCR

Salient features

- Bypasses through traffic between Hyderabad and Visakhapatnam and decongest city major roads
- Acts as Growth corridor by promoting industrial activities on both sides of the corridor for Vijayawada, Amaravati, Guntur and Tenali and immediately boosts economy of Region
- Create direct access to:
- Major activity centers immediate to Amaravati, Vijayawada Guntur and Tenali
- Gannavaram Airport for the people of Guntur, Tenali, and to all the major towns in south of APCR
- APIIC Industries Cluster at Veerapanenigudem
- Dedicated Freight Corridor (DFC) Interchange of both N-S and E-C corridors proposed below Gannavaram Airport
- Industrial activities on both sides of the corridor around Vijayawada, Guntur, Tenali

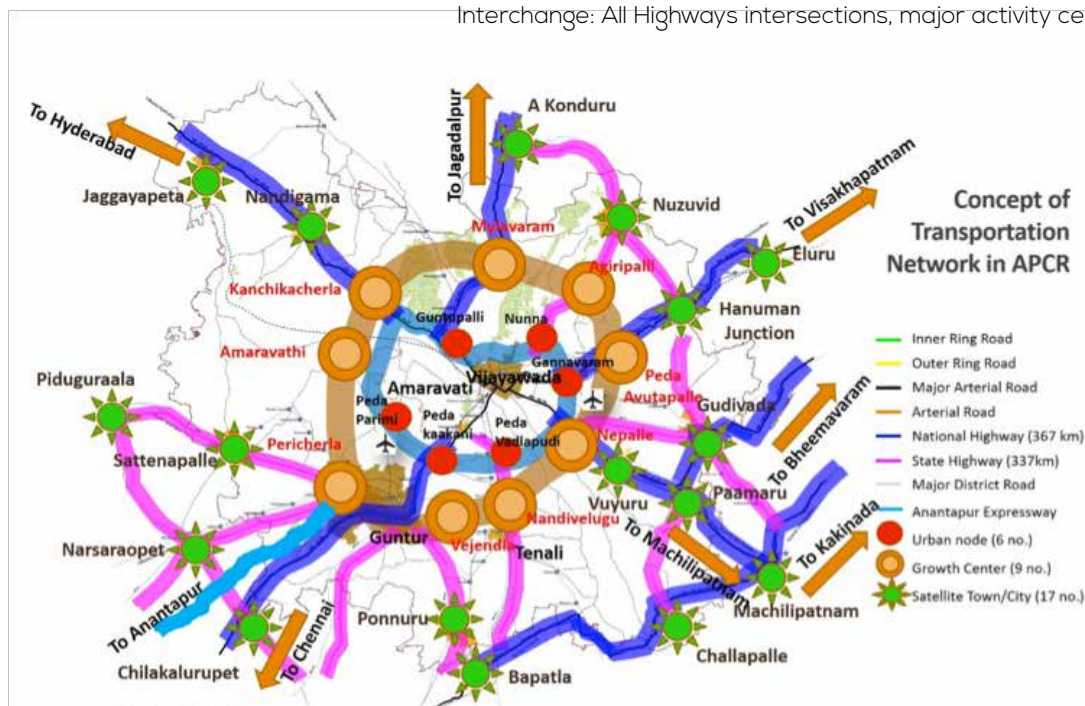
Proposed Technical Specifications

Length: 186 km

Right of way (RoW): 150 mt

Typical Cross-section: 8-lane divided with two way service road

Interchange: All Highways intersections, major activity centers



6.4

IMPLEMENTATION OF INFRASTRUCTURE IN LPS LAYOUTS.

Government of AP desires to develop Amaravati as a world class capital city by providing smart infrastructure like roads comprising medians covered with green street scaping , storm water drains 24X7 Drinking water supply including fire hydrants ,UGD, Power , Gas and ICT network to be placed in a duct run on either side of the well-built roads.

In this process APCRDA has engaged M/s Aarvee & GILC as infrastructure consultants for planning designing and preparation of DPR for the entire smart infra requirement of capital city APCRDA as part of fulfilment of land pooling scheme to be returned developed lands of area equal to 25% of the land pooled to each of the beneficiary of LPS.

Development of these LPS layouts is one of the key mile stone for Amaravati capital city. Planning design and preparation of DPR of tier II infrastructure for all the LPS returnable lands which are covering 17000 acres is within the scope of SIIMP infrastructure consultant.

Among the 24 LPS layouts for the capital city area, 22 LPS have been notified. The entire city (24 layouts) have been divided into 12 sewer zones to enable the decentralized treatment system. For the effective maintenance and management of the infrastructure each sewerage zone is considered as a package for tendering.

In the authority meeting held on 8.02.2017, administrative sanction towards the Development of infrastructure like roads water supply, Sewerage, Storm water drains and the Ducts for Power & ICT , Reuse water line including maintenance for 10 years in Zone 1,2,3 covering Nekkallu, Shakamur, Ananthavaram, Nalapadu villages and Tullur (partly) received for Rs.2982.42 crs .

The Detailed Estimates for Zone 1,2 and 3 are nearing finalization. The designs for Zone 4,5,6 are nearing completion. The designs for the zones 7,9,10 are in progress. The tenders for the infrastructure development in Zone 1 covering Nekkallu and Shakamur (part) will be called shortly.

6.5

SMART CITY PROPOSAL

Amaravati was included in the list of cities eligible for participation in the National Smart City Mission scheme, through an Office Memorandum released just before Round 2 submission in the challenge, by the Ministry of Urban Development, Government of India. Amaravati missed the by a close margin in Round 2, due to the greenfield nature of the project. However, Amaravati has further revised and submitted its proposal for Round 3 of the Smart City Challenge, as on 31st March 2017.

The Smart City Proposal incorporated extensive feedback from public and various stakeholders on various forums to arrive at the top themes that were of interest. The criteria is development in a swift manner, sustainability and maximum impact to the development efforts of Amaravati.

Area based development component of the proposal is key to evaluation and selection and therefore, a 650 acre extent, adjacent to the Government Complex area of Amaravati, titled the "People's precinct" – is proposed to be developed into a vibrant mixed use development. The plans for the same are in-line with the world's best practices being detailed by London based architect Foster + Partners. Within the complex, multiple smart components were identified for development under the smart city proposal with emphasis on –

- 1) Micro-climate management – several measures are planned to be undertaken to ensure the micro-climate conditions within the precinct remain multiple degrees cooler. This will include interventions in the urban form and streets, sprinkler systems and a state-of-the-art weather radar system to monitor on a continual basis.
- 2) Urban mobility – given the comfortable weather, aesthetics and other conditions that would prevail in the precinct, public transportation and Non-motorized transport infrastructure has been prioritized. 120 cycles under a public bike sharing system, 50 electric buses, pedestrian walkways, smart multi-level car parking and Smart street facilities have been identified for development.
- 3) Blue-Green – in line with the Blue-green vision of the Capital city, the people's precinct would encompass a 250 acre park, bio-retention ponds, 5km of canal front and 1km of river front.
- 4) Activity centers – various activity centers have been identified for development within the People's precinct, in line with making it an inclusive space for citizens and tourists to visit. This includes a crafts bazaar, two city square with abundant retail spaces to attract and provide Retail and entertainment facilities to the public.

- 5) Smart utilities – smart street lighting, CCTVs, Smart drinking water facilities, underground dustbins, Model public health centers, bio-toilets and digital hoarding boards have been proposed to improve the quality of living in the precinct.
- 6) Improved governance – an app that will help people with way finding, provide updates on events will be set up to ensure vibrant events are promoted in the area, turning into a tourist hub. An intelligent command and control center is also proposed.

The above developments will ensure that the people's precinct - area adjacent to the Government Complex - is developed as vibrant spaces that the public can spend on retail, entertainment, dining among other activities. As per the directions of the Hon'ble Chief Minister, the Amaravati Government Complex would not be one that is active only during the day, but one that is active 24 /7. The Smart City Proposal strongly augments measures in this direction.

Supported by meticulous planning, the components of the area based proposal of the Smart city proposal are such that they can be replicated across the city. There are ample public spaces available in Amaravati, and once the proof of physical and financial sustainability is demonstrated through the People's precinct, the same can be replicated across all similar developments in Amaravati.

The Area Based Proposal, is expected to cost about 1420 Cr. in Capital expenditure.

The second section of the proposal, called the Pan City Proposal is estimated to cost over 400 Cr, and includes -

- 1) Complete digitization of the water supply network decreasing the non-revenue water to negligible amounts
- 2) Smart street lights powered by Solar panels and connected to CCTVs
- 3) Electric buses to ply within the city

Together, the overall development cost of the proposal amounts to 1874 crores, of which 1000 Cr. will be provided as a combined grant from Centre and state in equal proportions. The remaining amounts will be utilized from various Central Government schemes and tapping into other sources as per the overall city's funding plan.

A strong implementation plan has also been proposed, considering that a lot of the planning work has already been completed through consultants that have been engaged for the overall city and the Government Complex. This includes Aarvee- GILC for design of Infrastructure, as well as London-based Foster + Partners. Additionally, several other G2G partnerships will also ensure that the best technical expertise is taken into planning of the Smart components – including Japan, UK, Singapore, France among others. APCRDA is in advanced stages of discussions for development of Amaravati with these partnerships, and will prioritize the Smart city implementation plans going forward.

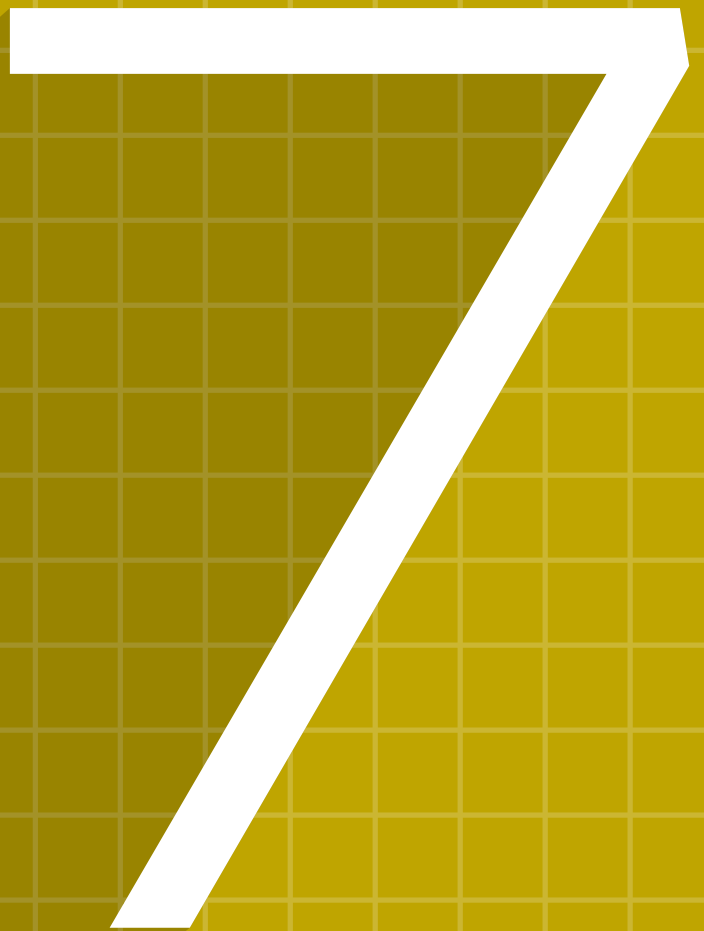
Amaravati being a greenfield smart city has a lot of advantages in its favour – specifically that the development can be planned much more meticulously than other brownfield cities. The institutional and policy framework that Amaravati has in place, will ensure that not just the development by public but also those by private follow various guidelines that adhere to the overall vision of the city. These guidelines will ensure sustainability such as enforcing solar power usage, dual-piping systems, green-rated buildings, rainwater harvesting and so on, to name a few. Such enforcements are impossible in an otherwise brownfield development.

Selection of Amaravati as a Smart City will be a fillip to the smart city initiatives of Amaravati and will be an excellent opportunity to showcase unique benefits of introducing smart city concepts in greenfield city development. It will also serve as an excellent platform to exchange learnings for initiating many greenfield city development projects in the years to come.



World bank team's visit to APCRDA

FINANCIAL PLANNING



58000

Crores required to develop
Amaravati as a world class
Blue - Green City

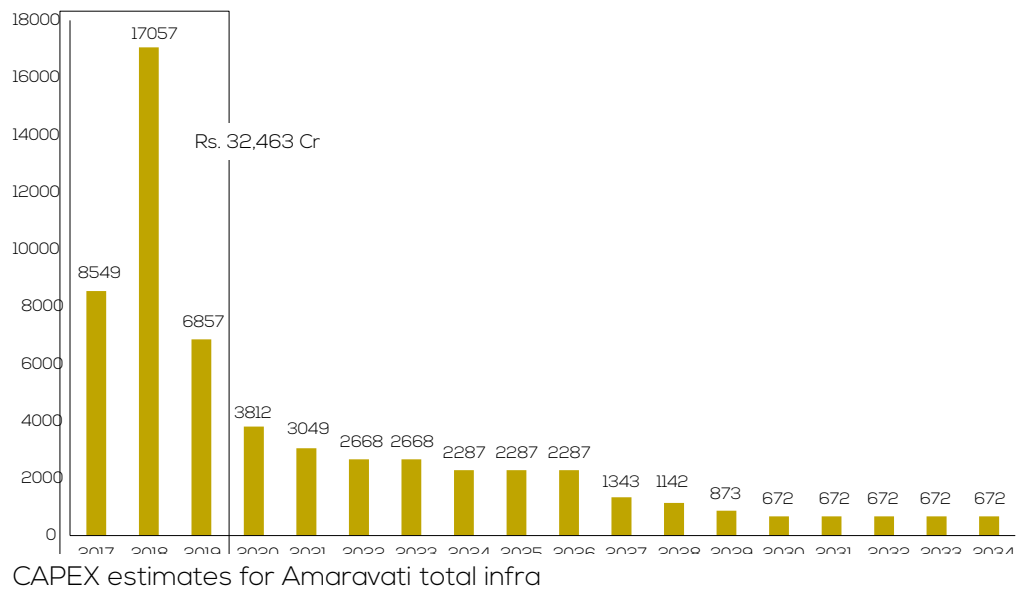
14200

Crores sanctioned by
HUDCO and World Bank

7.1

LIST OF PROJECTS & PHASING

A total of Rs 58,000 Cr is the estimated cost of Amaravati's total infrastructure investment over a 20 year horizon, of which Rs. 32,000 Cr is the Capex estimate for the first 3 years primarily consisting of Trunk infrastructure for the entire Capital City, Government Complex and fulfilment of LPS Infrastructure obligations.



World bank team's visit to Villages

A PROJECT LEVEL BREAK-UP OF THE CAPEX REQUIREMENTS FOR THE FIRST 3 YEARS IS DETAILED BELOW

Infrastructure category	Total (Rs. in Cr.)	2016	2017	2018	2019	PPP
Road Infrastructure	4,967	151	1128	1773	83	1,833
Water	574	-	172	287	115	-
Sewerage	176	-	53	88	35	-
EHV line rerouting	2,000	-	1,000	1,000	-	-
Power	3,287	-	-	-	-	3,287
Telecommunications	302	-	123	171	8	-
SWM – Conventional	15	-	15	-	-	-
Gas	151	-	-	-	-	151
Utility Duct	950	-	-	713	238	-
Green Works	250	-	-	250	-	-
Flood Management	1,000	-	200	600	200	-
Village Infrastructure	519	-	104	311	104	-
LPS Infrastructure for Returnable Plots	10,816	-	2,164	4,326	4,326	-
Government Complex	5,600	-	1,400	3,360	840	-
Start- up Area	614	-	153	368	92	-
Industrial Area	500	-	125	300	75	-
Social Infrastructure	88	-	22	53	13	-
LPS Payments	655	-	218	218	218	-
TOTAL	32,463	151	6,878	13,817	6,346	5,271

Table 11: Financial outflow

The above table is tentative and subject to revision.



World bank team's visit to APCRDA

7.2

SOURCES OF FUNDING

As described above, the Capital City will require substantial amount of money during the first 3 years period which will be met through different sources including HUDCO, World Bank, Government Grants as well as innovative sources of funding. Details of the funding sources tied up are given below



The above list is tentative and is subject to revision. Estimates are being worked on with help of Experts to finalize the same.

7.2.1. GRANTS

- The 3 years of the project are crucial to send positive signals in the market and to prepare the ground for funding of the subsequent stages. APCRDA is seeking Government Grant for Government Complex works including the Secretariat, Legislative Assembly and High Court building and related infrastructure.

7.2.2. MULTILATERAL SOURCES

- The application for World Bank loan to the tune of ~6000 Cr has been approved by the Gol. Of this, the first tranche worth 3,500 is being co-funded by the World Bank and AIIB under the Amaravati Sustainable Capital City Development Project (ASCCDP) and will be used for funding roads, flood mitigation and village infrastructure upgradation along with technical assistance to CRDA. The Bank has successfully completed four missions to APCRDA along with visit to villages of the capital city area where the projects will be

implemented. The appraisal for this loan is scheduled for end of May and Board approval is expected by June. The application for the 2nd tranche of the World Bank loan will be sent by June 2017.

7.2.3. DOMESTIC DEBT- HUDCO



Commissioner and World Bank team meeting with Ajay Jain, Principal Secretary

- APCRDA had entered into a MoU with HUDCO for a loan of 7,500 Cr which will help fund the projects within Phase 1 and part of Phase 2. The first tranche of Rs.1275 crores from HUDCO was sanctioned on 6th December to fund the Priority roads projects and disbursed from March 2017 onwards.

7.2.4. INTERNAL GENERATION

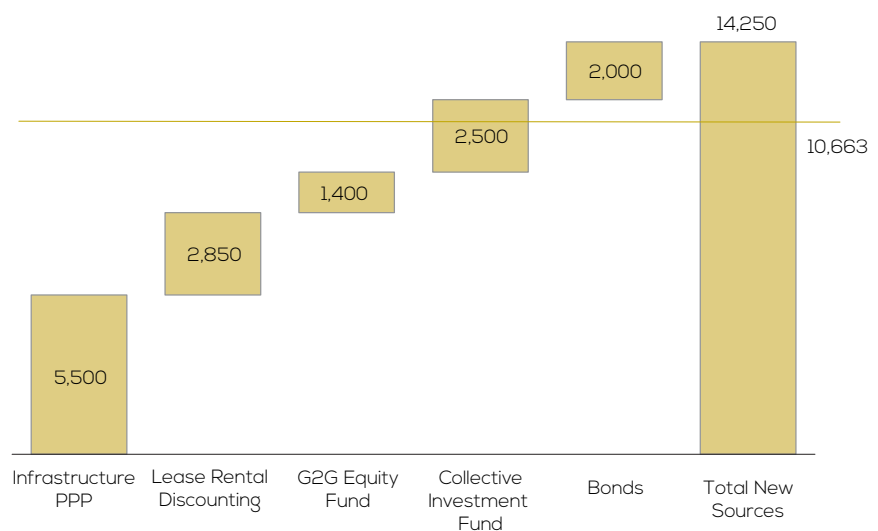


World Bank team with APCRDA officials

- With trunk infrastructure put in place, land prices are expected to appreciate significantly and hence land monetization will emerge as a strong source of raising funds from Year 5 onwards.
- Land monetization will continue to be a key source of funding after Year 5, as the land prices are expected to further increase with a hockey-stick growth pattern, as the critical mass is achieved.

7.2.5 NEW SOURCES OF FUNDS

Given the gap in funding through the available sources of funds, five new sources of funding are also being explored



7.2.6. PPP

- The possibility of executing through PPP models for utilities (e.g., Power, Water) are being explored for Phase-1 projects. PPP workshops for Roads, Power and Water & Wastewater were conducted by APCRDA on 21st and 22nd September with key players to understand the interest and requirements of the market.

7.2.6.1. Lease Rental Discounting

- This mode of funding is being explored for the Head of Department buildings and Employee Housing within the Government Complex as well as the Seed Capital Area.

7.2.6.2. G2G Equity Funding

- G2G (Government to Government) fund can a cost effective means of raising equity capital which can have a long term investment horizon and focus on cash- flow generating Social infrastructure and mixed use assets.

7.2.6.3. Collective Investment Fund

- This fund is aimed at retail investors with land as collateral and floors and caps on returns and management fees paid to CRDA. Development can include residential, commercial, retail as well as social infrastructure
- This would be aimed at longer term land monetization (post year 5) though funds shall be collected immediately

7.2.6.4. Bonds

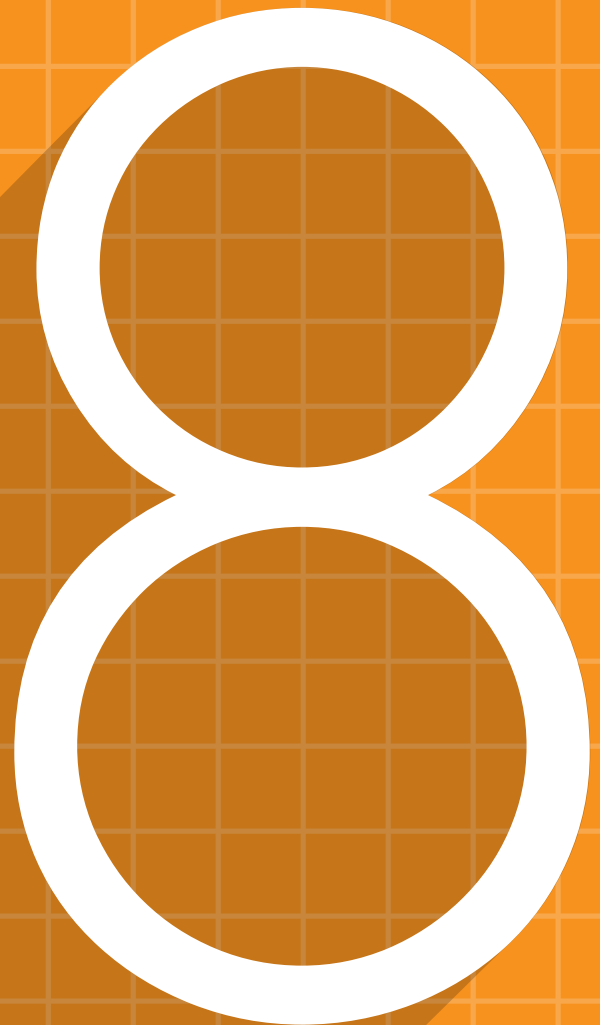
- APCRDA has also obtained Authority approval to raise bonds worth 2,000 Cr and has commenced the process by engaging Merchant Banker as advisor for the issue of Bonds.



Commissioner receiving ₹ 1275 Crore Cheque from HUDCO



INDUSTRY & ECONOMIC DEVELOPMENT



1,24,532

CRORES - worth
MOU signed by
APCRDA during
Partnership
summit, Vizag,
2017

8.1

PARTNERSHIP SUMMIT 2016

The Government has organized 22rd Partnership Summit and 1st AP Investment meet 2017 at Visakhapatnam from 10th to 12th January 2016, in coordination with Confederation of Indian Industry (CII) and Department of Industrial Policy and Promotion (DIPP), GoI. GoAP had requested APCRDA to mobilize investments into Amaravati City and the Capital Region from various investors and sign MoUs during the Partnership Summit 2017. APCRDA had also signed four MoUs during Partnership Summit 2016 held in January 2016 for total investments of Rs.13,300 Crores and the status of the MoUs is as follows:

S. No	MoU details	MoU Status
1	MoU with HUDCO for financial investment of ₹ 7,500 Crore	Operationalized
2	MoU with GLIC for partnering in development of Amaravati	Operationalized
3	MoU with Andhra Bank for financial investment of ₹ 5000 Crore	Under execution

Table 10: MOU Details



MoC between Government of Andhra Pradesh and the Ministry of Economy, Trade and Industry (METI), Japan



MoC between Government of Andhra Pradesh and the Ministry of Economy, Trade and Industry (METI), Japan

8.2

PARTNERSHIP SUMMIT 2017

During 23rd Partnership Summit and 2nd AP Investment meet 2017 held at Visakhapatnam on 27th and 28th January 2017, APCRDA has signed a total of 62 MoUs with a total investment of Rs. 1.24 Lakh Crore and a potential job creation of about 2.00 Lakh. The summary of the MoUs signed are as below:

S. No	Sector	No. of MoUs Signed	Total Investment (INR) in Crores	Total Employment
1	Infrastructure	21	84082	53685
2	Education	8	12744	24765
3	Mixed-Use Real Estate	6	11750	57050
4	Healthcare	10	8326	39200
5	Finance	2	2300	0
6	Residential Real Estate	4	2000	2800
7	Trade & Commerce	2	1250	6000
8	Tourism & Hospitality	3	850	5900
9	IT & ITeS	3	605	5600
10	Commercial Real Estate	1	300	5000
11	Housing & Infrastructure	1	300	1200
12	Spiritual	1	25	100
	Grand Total	62	124532	201300

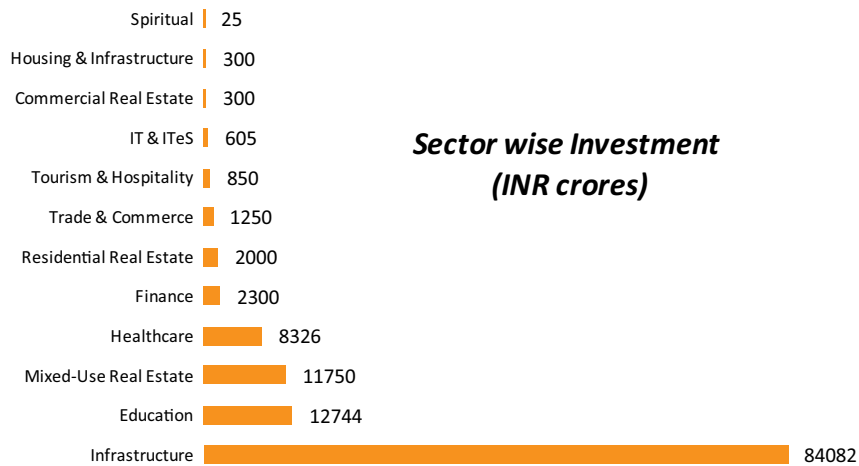
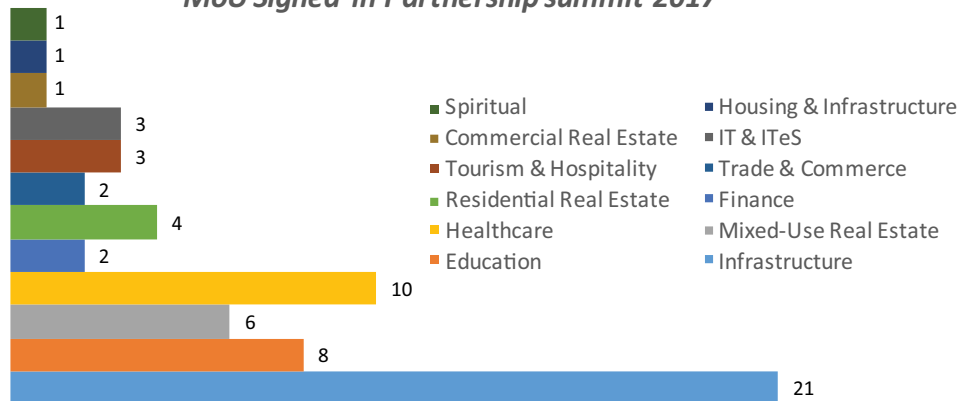
Table 12: MOUs Signed



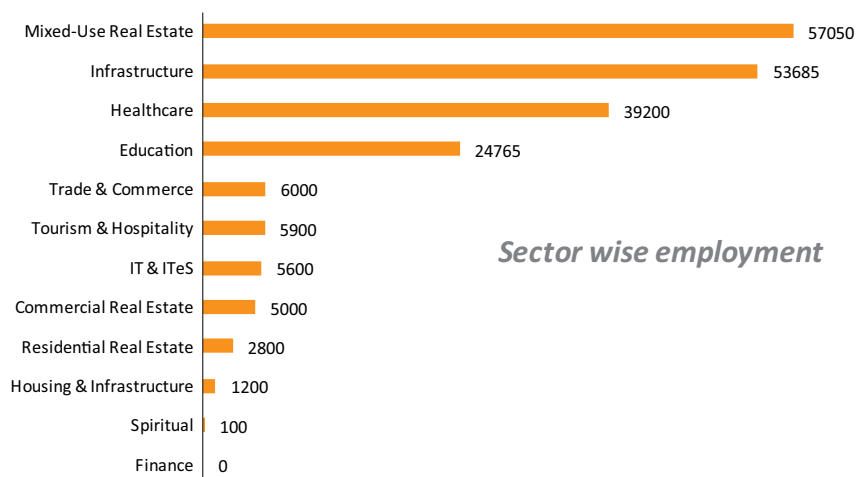
Exchanging of MoU's during CII Partnership Summit 2017.



MoU Signed in Partnership summit 2017



Sector wise Investment (INR crores)



Sector wise employment

8.3

PLAN OF ACTION

It is proposed that APCRDA shall undertake grounding of projects signed MoUs through Competitive bidding for Infrastructure projects, applicable allotment methods under Amaravati Land Allotment Policy 2016 for Real-estate and economic development projects and through nomination route for Anchor economic project investments in Amaravati.

List of Organizations signed MOU with APCRDA during Partnership Summit 2017

Sl. No.	Company Name	Investment (INR) in Crores	Employment in Nos.	Sector
1	Amity University	570	500	Education
2	Amrita University	2200	7000	Education
3	Andhra Pradesh Federation of Chamber of Commerce and Industry (APFCCI)	1000	3000	Trade & Commerce
4	AP Gas distribution company Ltd	500	150	Infrastructure
	APNRT Society	300	5000	Commercial Real Estate
6	Art of Living	25	100	Spiritual
7	Basavatarakam Indo American Cancer Hospital and Research Institute	420	500	Healthcare
8	BPCL	100	650	Infrastructure
9	BRS Medicity	4640	8000	Healthcare
10	Calcutta Electric Supply Co. Ltd.	6000	250	Infrastructure
11	Concrete & Lime Light Infra Projects India LLP	1000	500	Infrastructure
12	Confederation of Indian Industry	Nil		Education
13	Corporation Bank	2000	0	Finance
14	Design Tribe (India) Pvt. Ltd.	80	500	IT & ITeS
15	EMI Infrastructure Pvt Ltd	4000	20000	Infrastructure
16	Ernst & Young LLP	Nil		Infrastructure
17	Eshaan Energy Pvt Ltd	250	400	Infrastructure
18	Euro Destinations India Pvt Ltd	250	5000	Tourism & Hospitality
19	Extreme Projects Pvt Ltd	212	1275	Infrastructure
20	GITAM University	1275	2000	Education
21	Grand Projects Capitol	250	300	Residential Real Estate
22	Green Chimes Technologies Pvt. Ltd.,	1500	1300	Mixed-Use Real Estate
23	Hydrop Mineral water private ltd	40	150	Infrastructure
24	IL&FS Transportation networks ltd	5000	2000	Infrastructure
25	Indo UK Institute of Health	1000	10000	Healthcare
26	IndRoyal Hotels Pvt. Ltd.	350	500	Tourism & Hospitality

27	IOCL	1850	1360	Infrastructure
28	ISBR Business School	240	600	Education
29	Kakani Hospitals	200	500	Healthcare
30	KIMS Group of Hospitals	700	10000	Healthcare
31	Lahari Infrastructure Ltd	500	5000	IT & ITeS
32	Majeera Hotels and Resorts Pvt. Ltd	250	400	Tourism & Hospitality
33	Malaxmi Property Ventures Pvt Ltd	2000	30000	Mixed-Use Real Estate
34	MBMR Real Estate Pvt. Ltd.	150	300	Residential Real Estate
35	Muppala Medical Foundation	66	200	Healthcare
36	National Highways Authority of India	23430		Infrastructure
37	Neurogen Brain and Spine Institute	100	500	Healthcare
38	Panchwati Clean Water (PCW) and China Nuclear Industry 22nd Construction Company (CNI22)	5150	7050	Infrastructure
39	PES University	1381	5000	Education
40	Powergrid Corporation of India Ltd.	7500	400	Infrastructure
41	Prabhala Sesha Krishna (PSK) Research Foundation	200	2500	Healthcare
42	Prabhala Tech Park Pvt. Ltd.	500	5000	Healthcare
43	PriceWater House Coopers	Nil		Infrastructure
44	Rachana Sai Infra Tech Pvt Ltd	2500	15000	Mixed-Use Real Estate
45	Ramakrishna Housing Pvt. Ltd.	5000	2000	Mixed-Use Real Estate
46	Shaaporji Pallonji	6000	10000	Infrastructure
47	Shreeyansh DB Software Pvt Ltd	25	100	IT & ITeS
48	SimplyJith Investment Corp.Pvt. Ltd	300	1200	Housing & Infrastructure
49	SMEC India Pvt. Ltd (A Member of Surbana Jurong Group), India	Nil		Infrastructure
50	SRM University	3378	6365	Education
51	StadiArena Ltd	400	3500	Infrastructure
52	Tata power company Ltd	12500	3000	Infrastructure
53	Torrent Power Limited	7700	2000	Infrastructure
54	Torrent Power Limited	2450	1000	Infrastructure
55	Uma Estates Pvt. Ltd.	100	200	Residential Real Estate
56	Usha Cardiac Centre	500	2000	Healthcare
57	Vertex Homes Private Limited	1500	2000	Residential Real Estate
58	Vijaya Bank	300		Finance
59	VIT-AP	3700	3300	Education
60	Vybrant investo and projects pvt ltd	250	3000	Trade & Commerce
61	Vyjayanthi Entertainments & Properties Pvt. Ltd. In Association with Embassy Group	450	750	Mixed-Use Real Estate
62	Westcourt Real Estate Pvt. Ltd.	300	8000	Mixed-Use Real Estate
	Total	124532	201300	

Table 13

8.4

LIST OF INSTITUTIONS
ALLOTTED LAND IN
AMARAVATI

Sl. No.	Organisation	Sector	Activity	Project cost (in crores)	Em- ploy- ment	Land allotted Phase- wise in Acres	Land Holding Type	G.O.No.
1	VIT-AP Charitable Trust	Private	Education	3700	8000	200.00	Freehold	G.O.Ms.No.171, Dt. 04.07.2016
2	Indo-UK Institute of Health	Private	Hospital/ College	1000	5000	150.00	Freehold	G.O.Ms.No.171, Dt. 04.07.2016
3	National Institute of Design (NID)	Government	Education	108	90	50.00	Leasehold	G.O.Ms.No.171, Dt. 04.07.2016
4	Andhra Pradesh Human resources Development Institute (APHRDI)	Government	Education	50	80	25.00	Leasehold	G.O.Ms.No.171, Dt. 04.07.2016
5	Tirumala Tirupati Devasthanam	Government	Religious	80	120	25.00	Freehold	G.O.Ms.No.171, Dt. 04.07.2016
6	Central Institute of Tool Design (CITD)	Government	Education	20	30	5.00	Leasehold	G.O.Ms.No.171, Dt. 04.07.2016
7	SRM University	Private	Education	3400	6300	200.00	Free hold	G.O.Ms.No.296, Dt. 16.11.2016
8	Amrita University	Private	Education	2200	7500	200.00	Free hold	G.O.Ms.No.312, Dt. 01.12.2016
9	Central Public Works Department (CPWD)	Government	Office/ Reisdential	1600	5551	28.00	Leasehold	G.O.Ms.No.310, Dt. 01.12.2016
10	Reserve Bank of India (RBI)	Government	Office/ Reisdential	160	426	11.00	Leasehold	G.O.Ms.No.311, Dt. 01.12.2016
11	BRS Medcity Healthcare & Research Pvt. Ltd.	Private	Education/ Healthcare	5450	6700	100.00	Freehold	G.O.Ms.No.330, Dt. 13.12.2016
12	Sub-Divisional Police Office, Thullur & Traffic Police Station	Government	Social Infrastruc- ture	40	429	1.50	Leasehold	G.O.Ms.No.331, Dt. 13.12.2016
	TOTAL			17808	32726	995.50		

Table 14

8.5

FOREIGN COLLABORATION

8.5.1 CHINA

1. APCRDA entered into an MoU with Guizhou Silkroad Maritime International Investment Corp. (GIIIC) in the AP Partnership Summit organized on January 13th, 2016. In the MoU entered, APCRDA and GIIC agreed to work closely in opportunities towards development of Capital city.
2. Subsequently, during a visit by Hon'ble CM to Guizhou province in June 29, 2016, a sister-city agreement was signed between Amaravati and Guizhou towards development of infrastructure and economy in Amaravati.
3. An "RFP for engagement of Consultant for preparation of Smart Integrated Infrastructure Masterplan and Detailed Project Reports for Phase-I Infrastructure works for/ at Amaravati Capital city" was issued on 03.12.2016 for preparation of the Infrastructure designs for Amaravati capital city, covering an area of 217 sq.km.
4. In the tender evaluation that followed, the consortium consisting of GIIC and Aarvee Consultants, Hyderabad won the tender. The consortium has been working on the project from February, and have been providing inputs to their local partner towards the preparation of Masterplan and Detailed Project Reports (DPRs) for the Infrastructure in Amaravati.
5. Additionally, in furtherance to the sister-city agreement signed, multiple discussions have happened between APCRDA and GIIC, to explore opportunities in the following fronts:
 - a. Transportation infrastructure (primarily roads)
 - b. Water and Sewerage treatment plans
 - c. Housing
 - d. Power
 - e. Industrial Park project

Various discussions have been had with APCRDA on their potential participation through PPP based development, and are awaiting key decisions on financing and engineering details.

8.5.2 FRANCE

The French Smart Cities Mission, consisting of 45 business delegates and 13 Government delegates led by the Ambassador of France to India, H.E. Mr. Alexandre Ziegler visited Vijayawada on 30th November 2016. The delegation consisted of leading companies from France, focussed on Urban Infrastructure development such as Suez Development, Veolia, Saint Gobain, Alstom to name a few. Advanced discussions are ongoing, on furthering ties with the France in the development of Amaravati, and in particular their contribution towards Smart city expertise.

EXECUTION STRATEGY AND INSTITUTIONAL FRAMEWORK



9.1

AMARAVATI DEVELOPMENT CORPORATION

Amaravati Development Corporation (ADC) plays a key role in project implementation of the Amaravati City. This Special Purpose Vehicle (SPV) came into existence as per G.O.Ms. No.110 dated 2-5-2015 with a paid up capital of Rs.100 Cr under Companies Act, 2013 and comes under the purview of Department of MA&UD. Its main role is to prepare designs, approve designs prepared by consultants, calling for bids, contract awarding, sub-project monitoring, etc.

9.2

FRAMEWORK

9.2.1. INSTITUTIONAL FRAMEWORK

In the overall development of the Region in general and Amaravati in particular, the agencies involved apart from APCRDA are as enlisted below:

1. ULBs
2. RLBs
3. Corporate bodies
4. GoAP & its departments
5. GOI & its departments.

As there are multi agencies involved lot of coordination is required and a professional & robust institutional framework is essential. The framework shall be such that it facilitates coordinated decision making, execution and governance. Accordingly, over a period of time, the following institutional framework will be established.

9.2.2. CORPORATE STRUCTURE

In corporate structure, for execution of various projects in a professional manner, there is a need for creation of project/sector specific SPVs. GoAP has already created a SPV (ADC) under Companies Act 2013. U/S 13. (1) of APCRDA ACT, the Authority may, form or participate in the formation of a company or create Special Purpose Vehicles (SPVs) with powers to raise money through equity, for various purposes, including but not limited to, design and construction of buildings related to capital city area, large

infrastructure projects, provision of utility services, provision of urban services, design and execution of social infrastructure projects, and land acquisition and augmentation of financial resources. . It is anticipated that the functions of water supply, sewerage services, and solid waste management will be carried out through two ring-fenced utility companies, one for water supply/sewerage services and one for the solid waste management. Most functions noted in the 12th schedule of the CAA are conferred to APCRDA at present, and the utility companies to be established are expected to initially be reporting to APCRDA. These functions and companies will be transferred to the ACC once established and operational.

9.2.3 GOVERNANCE STRUCTURE

Currently, APCRDA (an authority) is responsible for the development of the Amaravati Capital City. Until the Amaravati local government and the local utility companies (SPVs) exist, APCRDA will be responsible for the corresponding functions. Longer term it is envisaged that a Amaravati City Council will be created. A Unified Transport Authority for the capital region is also anticipated.

9.3

ADVISORS

Various institutions and academicians across India have been involved from time to time since the inception of the Amaravati Capital City Development Project. These institutions include Indian Institute of Science, Schools of Planning and Architecture, Administrative Staff College of India, etc. The institutions were involved in design evaluation, plan evaluation, studies evaluation done by the consultants and/or were involved in carrying out studies.

9.4

CONSULTANTS

Below is a list of consultants engaged with APCRDA and ADC during 2016-17.

SL. NO.	CATEGORY	ASSIGNMENT TYPE	FIRM
1.	Strategy	Program Management Consultants	Ch2m Hill
2.		Strategic Management Consultant	McKinsey & Co.
3.		Consultants to Commissioner's Office	Auctus Advisors
4.		Communication Strategy Consultant	Dentsu
5.	Plan & Design	Master Architect for Amaravati Government Complex	Fosters+Partners Consortium
6.		Master Planning for Capital Region	Aarvee Associates
7.		Blue Consultant	TCE-Arcadis
8.		Infrastructure Master Planner & DPR Consultant	Aarvee - GILC
9.		Inner Ring Road Feasibility & DPR Consultant	STUP Consultants India Pvt. Ltd

Table 15

9.5

INTERNATIONAL
COLLABORATIONS AND
CAPACITY BUILDING

9.5.1 JAPAN

Comprehensive Traffic and Transportation Study for Capital Region

- a. JICA consented to provide Technical Assistance in preparation of Comprehensive Smart Traffic and Transportation Study (CTTS) for the Capital Region. The formal agreement (Record of discussion; R/D) was signed between the APCRDA represented by Commissioner, APCRDA and the Principal Secretary (CRDA) and JICA Senior Representative of India Office, Mr. Takayoshi Tange on 27th December, 2016.
- b. The study, for a duration of 23 months, the Terms of Reference of which is detailed below
 - i. Development of Immediate Action Plans to resolve critical traffic and transportation issues of 12 Urban Local Bodies (ULBs) in APCR
 - ii. Collection and analysis of traffic, transport and travel demand related data in APCR
 - iii. Development of urban transport planning model (four step model) for the APCR
 - iv. Development of long-term transport policies and strategies
 - v. Development of short- and medium-term transport development plan
 - vi. Training and knowledge transfer to APCRDA officials and the concerned stakeholders during the Study period
 - vii. Support for public consultation process

Technical studies by METI nominated companies

Various Japanese manufacturers undertook detailed feasibility studies for potential projects in Amaravati, and have arrived at the best technologies to achieve the vision of a smart and sustainable city. The same was presented on 20th February 2017. The Government of Japan delegation was led by the senior officials including the Deputy Director-General for International Projects Promotion, Ministry of Economy Trade and Industry (METI), Mr. Ichiro ABE, Executive Director, Southwest Asia Office, Trade Policy Bureau, Ministry of Economy Trade and Industry (METI) and other senior Government officials from METI and MLIT.

Some of the projects proposed by various top end Japanese companies are below:

1. Data Centre & Cloud Computing Infrastructure
 1. The Internet Initiative of Japan proposed state-of-the-art modular data centers that would deliver internet services for the city and the state with high efficiency whilst maintaining low energy consumption. The data centers being modular would also support cloud computing for various citizen applications, and could be constructed in a very short timespan. Japan being leaders in Internet and Communication technologies would ensure the best smart technologies are in place for the Capital city.
2. Weather radar systems
 2. A Weather radar system was also presented by Toshiba, which included a comprehensive strategy to tackle disaster management in the capital city. The system would be connected with the canal systems, river, sewerage and transport systems to predict disaster before they occur. Although the possibility of disasters in Amaravati is low, the key learnings from disaster management from Japan was presented. Systems that have made Japan the resilient city it is today could be adopted in Amaravati, ensuring zero casualties however fatal a disaster strikes.
3. Water supply systems
 3. To ensure every household get high quality clean potable water, Kobelco presented a Water treatment solution that has been implemented in various locations across the globe. The system has very low operating expenditure and has been tailored to the water quality requirements of Amaravati region.

4. Sewerage Treatment systems

4. In line with the vision of the city to be sustainable and environmental friendly, a Sewerage treatment plant with advanced energy saving technology was presented. The system has been implemented previously in various parts of the world.

5. Traffic Control System

5. Nippon Signal proposed a state-of-the-art Traffic signal system that would de-congest Vijayawada signals given its multiple road network and constraints. Mr. Rana, DCP (Traffic) pointed out that the city of Vijayawada has multiple constraints as city, leading to it being one of the most congested cities in the world. The geography consisting of a river on one side and hillocks on another has concentrated developed around a closed area. Additionally the multiple National Highways that go through the city contribute to a lot of traffic, which has been difficult to manage.
6. The Japan team undertook with the help of Vijayawada Police, surveys at over 25 key intersections in Vijayawada to arrive at a mitigation plan and proposal for implementation of a signalling system. The proposal would use sensors to dynamically change the duration of signals ensuring no congestion in the intersections.

The proposals would ensure world-class standards for the Infrastructure at Amaravati in line with vision of the Hon'ble Chief Minister. Discussions on the implementation for the proposals would be taken in due course of time.

9.5.2 UNITED KINGDOM

The United Kingdom sanctioned multiple studies towards the planning aspects of the Capital City. The following studies were sanctioned by the Government of UK, as below –

1. Climate resilience study for Amaravati, undertaken by CEEW, Mott Macdonald and Tyndall Center
2. Support to Government of Andhra Pradesh in developing an implementation strategy for raising funds on London Stock Exchange and advisory on alternate infrastructure funding options to aid economic development in Amaravati, undertaken by PricewaterhouseCoopers
3. Capacity building in Urban Transportation Infrastructure development undertaken by PricewaterhouseCoopers
4. Capacity building in Water supply & Sewerage systems undertaken by Ernst and Young
5. Smart City Leadership Workshop (organized on 16th and 17th February) undertaken by UrbanDNA, British Standards Institute and Opportunity Peterborough

The studies have concluded and the reports are being reviewed internally to assimilate in the best manner possible in the planning exercise of the city.

The Commissioner, APCRDA at the request of the Director, National Institute of Urban Affairs attended an Immersion workshop on Transit-oriented Development, funded by the Central Government.

The Commissioner, APCRDA presented at the World Water Tech Summit on 21st February 2017. During the visit, he also met with several UK organizations such as Transport for London, London Stock exchange and other private investors on potential collaborations with APCRDA towards development of Amaravati.

9.5.3 TRIP TO ASTANA, PUTRAJAYA, TOKYO AND SINGAPORE

A team consisting of the following members, Undertook a visit to Astana, Putrajaya, Tokyo and Singapore between 31st August to 6th September.

1. Dr. Sreedhar Cherukuri, IAS, Commissioner, APCRDA
2. Dr. A. Mallikarjuna, IAS, Addl. Commissioner, APCRDA
3. Mr. Aditya Vipparti, Planning team, APCRDA
4. Mr. G. Nageswara Rao, Planning team, APCRDA

The agenda at each of the countries, broadly was as below:

1. Astana
 - a. To understand the Planning principles and systems in place for the newly developed city of Astana
 - b. Explore collaborations with Astana Genplan and Astana Innovations
 - c. Explore possible sister-city agreement with Astana through the Mayor's office, Astana
2. Putrajaya
 - a. Understand the Performance Management systems in place in Malaysia
 - b. Understand the technical aspects of the Government city planning of Putrajaya
3. Tokyo
 - a. Meet with officials of METI and JICA regarding potential areas of collaboration
 - b. Meet with Kisho Kurokawa architects regarding city planning expertise
4. Singapore
 - a. Understand the Infrastructure management systems in place for the city of Singapore
 - b. Understand the planning tools used for planning of city facilities

ANNEXURES

10.1. AMARAVATI - ONE TIME LOAN WAIVER

Village wise abstracts				Amounts in Lakhs
District Name	Mandal Name	Village Name	No of eligible accounts	Amount Adjusted
Guntur	Thullur	Ananthavaram	1182	519
Guntur	Thullur	Nekkallu	837	355.94
Guntur	Thullur	Tullur	2152	940.35
Guntur	Thullur	Pitchikalapalem	355	187.24
Guntur	Thullur	Dondapadu	270	108.15
Guntur	Thullur	Borupalem	277	111.06
Guntur	Thullur	Abbarajupalem	417	189.86
Guntur	Thullur	Rayapudi	1131	467.33
Guntur	Thullur	Kondamarajupalem	334	154.34
Guntur	Thullur	Nelapada	678	304.85
Guntur	Thullur	Sakhamuru	917	389.67
Guntur	Thullur	Ainavolu	545	283.7
Guntur	Thullur	Velagapudi	865	418.54
Guntur	Thullur	Lingayapalem	388	189.75
Guntur	Thullur	Uddandarayunipalem	425	206.54
Guntur	Thullur	Malkapuram	293	129.34
Guntur	Thullur	Mandadam	1839	826.25
Guntur	Thullur	Venkatapalem	692	319.77
Guntur	Thadepalle	Thadepalle	134	49.06
Guntur	Thadepalle	Penumaka	1547	532.71
Guntur	Thadepalle	Undavalli	514	179.16
Guntur	Thadepalle	Tadepalli	373	133.84
Guntur	Mangalagiri	Mangalagiri	3	1.26
Guntur	Mangalagiri	Kuragallu	1227	548.7
Guntur	Mangalagiri	Krishnayapalem	513	232.06
Guntur	Mangalagiri	Nowlur	1640	690.84
Guntur	Mangalagiri	Nidamaruru	807	397.87
		Total	20355	8867.18

10.2. AMARAVATI - LANDLESS POOR PENSIONS DATA (FOR THE MONTH OF JANUARY, FEBRUARY, MARCH)

S. No	Mandal	Village	Eligible Pensioners			Spent Amount		
			January	February	March	January	February	March
1	Thullur	Abbarajupalem	124	124	125	310000	310000	312500
2	Thullur	Ananthavaram	753	753	777	1882500	1882500	1942500
3	Mangalagiri	Bethapudi	546	545	564	1365000	1362500	1410000
4	Thullur	Borupalem	334	339	340	835000	847500	850000
5	Thullur	Dondapadu	461	462	462	1152500	1155000	1155000
6	Thullur	Inavolu	390	399	403	975000	997500	1007500
7	Mangalagiri	Krishnayapalem	325	330	329	812500	825000	822500
8	Mangalagiri	Kuragallu	556	557	568	1390000	1392500	1420000
9	Thullur	Lingayapalem	394	400	404	985000	1000000	1010000
10	Thullur	Malkapuram	341	343	347	852500	857500	867500
11	Thullur	Mandadam	1558	1558	1601	3895000	3895000	4002500
12	Mangalagiri	Neerukonda	255	259	259	637500	647500	647500
13	Thullur	Nekkallu	354	362	363	885000	905000	907500
14	Thullur	Nelapadu	256	263	267	640000	657500	667500
15	Mangalagiri	Nidamaru	1144	1154	1175	2860000	2885000	2937500
16	Mangalagiri	Nowlur	2194	2202	2262	5485000	5505000	5655000
17	Tadepalli	Penumaka	1631	1632	1628	4077500	4080000	4070000
18	Thullur	Rayapudi	825	827	886	2062500	2067500	2215000
19	Thullur	Sekhamuru	241	252	251	602500	630000	627500
20	Thullur	Thullur	1711	1735	1758	4277500	4337500	4395000
21	Thullur	Uddandarayunipalem	322	335	338	805000	837500	845000
22	Tadepalli	Undavalli	1809	1806	1814	4522500	4515000	4535000
23	Thullur	Velagapudi	624	641	640	1560000	1602500	1600000
24	Thullur	Venkatapalem	805	831	854	2012500	2077500	2135000
25	Mangalagiri	Yerrabalem	2157	2175	2190	5392500	5437500	5475000
Total			20110	20284	20605	50275000	50710000	51512500

10.3. NATIONAL RURAL EMPLOYMENT GUARANTEE SCHEME (AS ON 30TH MARCH 2017)

Name of the GP	No. of job cards issued	Total number of person days generated			No. of works done
		2014-15	2015-16	2016-17	
Abbarajupalem	154	511	1726	697	
Ananthavaram	928	1388	2239	1413	6
Bethapudi	488	548	0	0	
Borupalem	372	603	162	27	22
Dondapadu	587	1066	192	263	3
Inavolu	495	1359	34	125	4
Krishnayapalem	332	2227	718	0	1
Kuragallu	639	2978	207	0	
Lingayapalem	626	551	788	209	
Malkapuram	363	447	2375	376	2
Mandadam	1220	2178	1132	352	
Neerukonka	392	6974	1126	1000	
Nekkallu	634	1400	1006	722	3
Nelapadu	307	1045	327	63	
Nidamaruru	742	921	2026	304	
Nowlur	716	1388	494	0	
Penumaka	915	420	623	0	
Rayapudi	1036	1554	3028	947	5
Sakhamuru	392	687	248	864	11
Thullur	1620	3378	272	164	9
U.d.Palem	387	269	96	28	
Undavalli	579	324	0	0	
Velagapudi	737	1133	995	0	
Venkatapalem	693	565	10	29	
Yarrabalem	935	3019	132	0	
Total	16289	36933	19956	7583	66

10.4. NTR CANTEEN AMARAVATI (AS ON 11-05-2017)

Village Name	Number of people served		
	Breakfast	Lunch	Total
Velagapudi	55009	85374	140383
Thullur	21514	15896	37410
Total	76523	101270	177793

10.5. APSSDC&APCRDA IMPARTED THE FOLLOWING SKILL DEVELOPMENT PROGRAMS 2015-2016.

S. No	TRAINING PARTNER NAME	COURSE/S	Training Imparted	Placements Provided
1	APSSDC	IT	90	59
2	St. Johns Welfare Society	JUTE BAGS	143	143
3	Dhatri Foundation	Maggam Work	40	40
4	Govt. Polytechnic,	Land Surveyor	24	0
5	Krishna District Lorry Association	Driving LMV	23	23
6	Involute Pvt. Ltd	Electrical (Involute)	5	1
7	Involute Pvt. Ltd	Mechanical (Involute)	5	1
8	Dhatri Foundation	Herbal Products Mfg	40	40
9	AD Softech	Consignment Operator	32	28
10	Stardigam	Business Correspondent & Business Facilitator	45	0
11	ASV	Electrical Training,Jedcharla	30	3
12	L&T	Construction,,Jedcharla	6	2
13	Syicon Micro Systems	Automation, Bengaluru	30	13
14	APSSDC	Soft skills, Nowluru	30	3
Total			543	6
15	Direct placements & Job Melas			673
GRAND TOTAL				1029

10.6. APSSDC&APCRDA STARTED THE FOLLOWING SKILL DEVELOPMENT PROGRAMS ON 2017.

Sl no	Course Name	Partner name	Bach size	Actual size	Batch Started Date
1	Accountancy	Synchroserv	30	30	03/09/17
2	Beautician	Centum Learning	30	30	03/17/17
3	A C Technician	Gram Tarang	30	19	03/27/17
4	Scooter Mechanic	Gram Tarang	30	10	04/13/17
5	Mobil Technician	Centum Learning	30	10	04/13/17
6	Land Surveyor	Govt. Polytechnic College	30	26	04/27/17
7	Ms-Office	APSSDC	20	16	03/01/17
8	LMV Driving	Krishna	30	29	To Be Initiated
9	Lab Technician	APPOLO	30	6	To Be Initiated
Total				170	

10.7. LPS STATUS

Unit ID	Name of the Village	Total (All extents in Acres)									
		Total extent		9.3 extent		9.14 (execution)		Annuity 1st year (in Rs)		Annuity 2nd year (in Rs)	
		Farmers	Extent	Farmers	Extent	Farmers	Extent	Extent	Amount Paid in Rs.	Extent	Amount
Unit-1	Krishnayapalem	1421.15	1411.3897	953	1382.1697	1363.7847	52782084.02	1348.47875	54972528		
Unit-2	Nowlur	1317.36	1216.8367	1832	1184.311	1137.4077	79679722.57	1096.7702	70440019		
Unit-3	Yerrabdem	1663.84	1545.4678	2128	1402.9042	1366.2149	81013742.84	1326.9148	83392852		
Unit-4	Kuragallu	1618.08	1500.2463	1703	1324.549	1246.1535	56437995	1215.5542	45970768.49		
Unit-5	Neerukonda	1473.50	1451.1937	1317	1449.2737	1434.6387	52117129	1402.944	50577712.4		
Unit-6	Nidamarru-1	1260.20	1022.6312	1440	1005.2212	957.3304	39839814.15	934.6698	34496160		
Unit-7	Nidamarru-2	1246.81	994.1347	1349	965.3477	886.1393	40017279.08	800.6203	28543695.55		
Unit-8	Undavalli	1151.79	341.9912	407	290.241	276.7411	19496272.32	262.1206	18321160.15		
Unit-9	Penumaka	1647.24	1102.95	1159	1081.0134	960.7991	53549964.84	975.34	60496583		
Unit-11	Abbarajupalem	731.70	384.0547	413	383.9847	354.6447	24100811	734.7575	31315990		
Unit-11	Borupalem	384.13	729.2225	656	729.2225	722.9575	47965885	353.3797	15719500		
Unit-12	Dondapadu	269.35	820.35	582	796.99	782.11	24660217	231.735	8055863		
Unit-12	Pitchukulapalem	822.50	264.275	242	234.545	231.6925	7589186	727.25	25428135.9		
Unit-13	Inavolu	1056.15	1054.58	1087	1051.18	1050.3	36876103.67	1031.4854	37534745.68		
Unit-14	Rayapudi-1	2103.97	1296.979	1295	1274.8341	1230.9016	83357351.44	1224.3862	63877796.8		
Unit-15	Rayapudi-2	634.72	618.062	721	616.1195	610.8145	27759780	574.27	23876612		
Unit-15	Kondamarajupalem	824.70	816.504	660	807.134	768.2715	33585488	746.8815	31245092.9		
Unit-16	Lingayapalem	1349.25	924.2506	607	918.3106	869.4756	45424405	836.3933	48497064		
Unit-16	Uddandarayunipalem	575.14	433.92	362	419.77	398.27	21542900	383.6313	22325779		
Unit-16	Malkapuram	469.55	442.4105	351	434.4	419.89	13388522.34	436.378	15206752		
Unit-17	Nekkallu	1273.35	1246.365	1062	1200.6	1153.455	37286022	1254.618	43979768		
Unit-18	Nelapadu	1322.92	1317.5975	1008	1308.3225	1295.18	39507147	1255.9025	43310140		
Unit-19	Sakhamuru	1522.00	1516.3309	1567	1499.0059	1491.6609	50805763.85	1466.3442	52992966.1		
Unit-20	Thullur-1	1437.77	1416.355	1281	1391.26	1359.235	44618866.01	1250.7493	46716789.9		
Unit-21	Thullur-2	1786.41	1780.19	1490	1771.7625	1754.57	54882521	1754.0531	61031394.9		
Unit-22	Velagapudi	1869.31	1819.3485	1430	1795.5385	1741.9985	62933922.25	1725.5789	65537431		
Unit-23	Venkatapalem	1464.06	1387.1344	1231	1384.0544	1357.9894	64446910.02	1242.7	62480845.95		
Unit-24	Mandadam-1	1677.78	1612.6773	1085	1610.7773	1557.1775	84509787.33	1557.325	91441475		
Unit-25	Mandadam-2	1986.15	1897.16	1504	1880.45	1866.99	60860040.5	1687.62	58276758		
Unit-26	Ananthavaram	2175.07	2023.125	1577	2012.005	1989.695	64870050	2194	75372347		
		38535.94	34387.7332	32329	33605.2974	32636.4886	1405905683	32032.85155	1371434726		

10.8. MEGA HEALTH CAMP DETAILS THULLURU ON 21.04.2017

S. NO	HOSPITAL NAME	DISEASE NAME	OP	REFERRAL
1	NRI HOSPITAL	CARDIOLOGY	36	6
		GENERAL MEDICINE	25	4
		ORTHOPEDIC	40	8
		PEDIATRICIS	18	0
2	ANDHRA HOSPITAL	GYNACOLOGY	2	0
		GENERAL MEDICINE	27	2
		DENTAL	52	4
3	MANIPAL HOSPITAL	ORTHOPEDIC	30	4
4	SANKARA EYE HOSPITAL	OPHTHALMOLOGY	96	16
5	DUHITHA DENTAL CARE	DENTAL	30	0
6	KATURI MEDICAL COLLEGE	PEDIATRICIS	6	0
		GYNACOLOGY	2	0
		DENTAL	0	0
7	VGR DIABETICS CENTER	DIABETICS	20	0
	GRAND TOTAL		384	44

10.9. MEGA HEALTH CAMP DETAILS PENUMAKA ON 06.05.2017

S. NO	HOSPITAL NAME	DISEASE NAME	OP	REFERRAL
1	KATURI MEDICAL COLLEGE	PEDIATRICIS	30	1
		Eye	67	43
		CARDIOLOGY	26	6
2	ANDHRA HOSPITAL	CARDIOLOGY	55	9
		DENTAL	16	5
3	AMARAATHI HOSPITAL	ORTHOPEDIC	110	0
		GENERAL MEDICINE	88	1
4	HARINI GASTROLOGY	GASTIC	38	0
5	VGR DIABETICS CENTER	DIABETICS	84	0
	GRAND TOTAL		514	65

10.10. MEGA HEALTH CAMP DETAILS MANDADAM ON 29.05.2017

S. NO	HOSPITAL NAME	DISEASE NAME	OP	REFERRAL
1	KATURI MEDICAL COLLEGE	OPHTHALMOLOGY	73	32
		GENERAL MEDICINE	21	8
		CARDIOLOGY	12	6
2	NRI HOSPITAL	CARDIOLOGY	15	1
		GENERAL MEDICINE	45	0
		ORTHOPEDIC	42	0
		PEDIATRICIS	17	0
3	ANDHRA HOSPITAL	CARDIOLOGY	35	3
		DENTAL	15	0
4	LALITHA HOSPITAL	CARDIOLOGY	75	2
		NEUROLOGY	107	0
		ORTHOPEDIC	18	0
5	HYMA HOSPITAL	GYNACOLOGY	32	1
		PEDIATRICIS	10	0
6	MANIPAL HOSPITAL	CARDIOLOGY	6	1
		UROLOGY	5	0
7	VGR DIABETICS CENTER	DIABETICS	63	0
	GRAND TOTAL		591	54

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