

7. Social Infrastructure

7.1 INTRODUCTION

Social Infrastructure includes education, health, recreation, socio-cultural facilities, police, fire, postal services, telecommunication and distributive services. Development of physical infrastructure cannot lead in overall development at the desired level if the social infrastructure is not simultaneously developed. The education, health, public entertainment etc have to be developed to ensure proper social infrastructure in the planning area.

7.2 EDUCATION

7.2.1 Basic Educational and Literacy Indicators

As per 2011 Census, the literacy rate has increased to 88.49 % in Ranchi urban centre. The male constitutes 92.87 % and female comprised of 83.75 %. The ratio between numbers of students per teacher in the Ranchi planning area is 63 i.e. 1-teacher for 63 students. The teacher-student ratio is 62 for Ranchi urban area. For both planning area and Ranchi urban area, the teacher student ratio is higher in comparison to the standard of 1-Teacher for 25 students.

7.2.2 Education System in Jharkhand State

The Education in the State is classified in the following categories:

Table No. 7-1: System of Education in the State

Elementary Education	Age 6-14 years	Classes I-VIII
<ul style="list-style-type: none"> Primary Upper Primary 		
Secondary Education	Age 14-16 years	Classes IX-X
Higher Secondary	Age 17-18 years	Classes XI-XII

Higher Education

- University
- Institutes of National Importance
- Degree Colleges

Technical and Vocational Education

Vocational Institutes

In the field of education, the primary objective of the State Government has been the universalization of elementary education and Qualitative improvement of Higher Education.

7.2.3 Primary and Senior Secondary Schools

In Ranchi, there are altogether 619 number of schools. Out of which 450 numbers are primary and upper primary with Secondary and High secondary schools, 119 numbers are secondary with High-secondary and 50-numbers are High secondary schools. The total numbers of students enrolled in these schools are 2,17,696; out of which 1,10,574 are boys and 1,07,122 are girls. The details are given in **Table No. 7.2**

Table No. 7-2: School Facility in Ranchi, 2011-2012

Category	Number	Total Teacher	Students		
			Boys	Girls	Total
Primary School	184	533	10,434	12,116	22,550
Primary with Upper Primary	142	1,090	28,155	29,295	57,450
Primary with Upper Primary & Secondary/High Secondary	92	833	37,501	32,724	70,225
Upper Primary with secondary / High Secondary	32	306	3,910	5,392	9,302
Secondary Only	97	460	12,891	15,836	28,727
Secondary with Higher Secondary	22	88	3,068	2,946	6,014
High Secondary School	50	148	14,615	8,813	23,428
Total	619	3,458	1,10,574	1,07,122	2,17,696

Source: District Education Office, Ranchi-2011-12

It reveals from the study that 94.02 % of total schools with 94.96 % of total enrolment are located in Ranchi urban area in comparison of Ranchi planning area.

To provide primary, secondary and higher secondary school facilities to cent percent school-going children, the following standards are adopted. (Ref. **Table No. 7.3**)

Table No. 7-3: Norms for School level Educational Facilities

No	Educational Facility	Level	Pop./Unit (approx.)	Strength	Plot Area
1	Pre-primary/Nursery School	Housing Area	2,500	250	0.08
2	Primary School	Housing Area	3,000-5,000	500	0.40
3	Senior Secondary School	Neighbourhood	7,500	1,000	1.60
4	Integrated School without hostel facility	Community	90,000-1,00,000	1,000	3.50
5	Integrated School with hostel facility	Community	90,000-1,00,000	1,000	3.90
6	School for Handicapped	Community	45,000	400	0.50

To cater to the school-level facilities, 114-Neighbourhood centres each to include secondary schools and primary schools are proposed in the Ranchi Planning Area. Additional required pre-primary and primary schools as per standards given above would be provided in the detail plans of the residential developments. The integrated schools and the schools for handicapped are provided in the Facility Centres in new developments distributed throughout the developable area. The future requirements of the school facilities in the Ranchi Planning Area are detailed in **Table No. 7.4** below.

Table No. 7-4: Requirements & Distribution of School Facility in RPA, 2037

S. No	Educational Facility	Existing Number, 2011	Additional Number	Total Requirement, 2037
1	Primary School	450	182	632
2	Secondary School	119	302	421
3	Integrated School without hostel facility	40	-	-
4	Integrated School with hostel facility	10	25	35
5	School for Handicapped	1	69	70

7.2.4 Higher Education

The Ranchi planning area has 21-numbers of General colleges located at different parts of the region. Out of total, the Ranchi urban area has 10-colleges i.e. Doranda College, Doranda; Gossner College, J. N. College, Dhurwa; Marwari College separate for boys and girls, Nirmala College, Doranda; Ranchi College, S. S. Memorial College, St. Paul College, St. Xavier College, Ranchi Women's College.

14-numbers of professional and other technical institutions are present in planning area. Out of total, 10-numbers are located in Ranchi urban areas along with 2-ITIs located at Itki road and Kokar and 4-technical institutes present in rural areas within the Ranchi planning area boundary. In addition, the State Government has its own institution for training their personnel and orientation courses. These are tribal orientation and study centre and extension training centre at Hehal and the Administrative Training Institute at Ranchi. There is another institution namely the Tribal Research Institute in Morabadi under the State Welfare Department.

Ranchi University, whose administrative office located within the core area of the Ranchi city spans into five districts of Jharkhand, namely, Ranchi, Gumla, Khunti, Simdega and Lohardaga. The Ranchi University has a total student intake

capacity of 90,000 from its affiliated colleges. There are a total of 2-male hostels and 4-female hostels in the university campus situated at Kutcheri Road, Morabadi in Ranchi city.

Birla Institute of Technology (BIT), Mesra was established in 1955 at Mesra, Ranchi, Jharkhand by the philanthropist and industrialist B M Birla. The institute is affiliated to the Ranchi University. BIT was the first institute in India to establish a department of space engineering and rocketry, in 1964. The main campus of the Institute at Mesra is located 16-km from Ranchi in approximately 316 hectares (3.20 Sq. km) setting at the confluence of the rivers Jhumar and Subarnarekha. The Mesra campus is entirely residential, providing accommodation to 3,200-undergraduate and postgraduate students and 550 members of faculty and staff.

Birsa Agricultural University, which is located at 8-kms from Ranchi at Kanke was established on 26th June, 1981 after its formal inauguration by the then Prime Minister of India, Late Smt. Indira Gandhi. Its primary objective is to develop area specific technologies and manpower in the field of agriculture, animal husbandry and forestry for the agricultural development of the plateau region of Bihar and economic upliftment of tribal and other backward class population of the region.

Table No. 7-5: Norms for provision of Higher & Vocational Educational Facilities

S. No	Educational Facility	Level	Pop./Unit (approx.)	Strength	Plot Area
1	General College	Community	1-1.5 Lac	1000-1500	4.0
2	Technical Educational Centre (A)	District	10,000	500	4.0
	(a) Polytechnic		400		2.4
	(b) ITI		100		1.6
3	University Campus	City	10 – 15 Lac		10.0
4	New University Area	City	10 – 15 Lac	60.0	
5	Vocational Institutes	City	50,000	5.0	

The Table 8.5 gives the norms for provision of General College and Technical Education Centres to include Polytechnic and ITI. This would accommodate about 17-students per 1,000 persons. Additional 3-students per 1,000 persons would be accommodated in the proposed new University and professional colleges.

On the basis of the above norms, the additional requirement and proposed distribution of General colleges are as under in **Table No. 7.6:**

Table No. 7-6: Requirements of Higher Education Facility in RPA, 2037

S. No	Educational Facility	Existing Number, 2011	Additional Number	Total Requirement, 2037
1	General College	25	7	32
2	University Campus	2	0	2
3	New University Area	-	1	1
4	Engineering College	2	1	3
5	Medical College	2	1	3
6	Technical Education Centre	1	2	3
7	Technical Education Centre	2	1	3
8	Vocational Institutes	6	0	6

The plan includes the provision of Facility Centres where a group of education, health and other facilities are provided. The additional 3-Technical Education Centres have been provided in the proposed Facility Centres and distributed in the RPA as follows:

Table No. 7-7: Distribution of Technical Education Centre in Facility Centres

S. No	Location			Number of Colleges
	Planning District	Planning Unit	Facility Centre	
1	District B	PU-3	FC-2	1
2	District E	PU-9	FC-10	1
3	District F	PU-12	FC-13	1
Total				3

One new University campus, including Technical and Professional Colleges is proposed to be located on land of Villages Turup (Thana No. 16), Hesal (Thana No. 19), Mansu (Thana No. 18) and Jamuwari (Thana No. 17) in Planning Unit 9 with a total area of 565 hectare. The Education and Research Hub shall contain regional-level institutions for research activities measuring an area of 240 hectare is proposed to be located at village Ganru (Thana No. 153). Refer **Map No. 7.1** for distribution of Educational Facility in Planning Area.

7.3 HEALTH FACILITY

The World Health Organisation (WHO) defines health as a state of complete physical, mental and social welling. The objective is to attain the same for the entire Ranchi planning area population.

7.3.1 National Health Policy

The objective of the National Health Policy is to achieve an acceptable standard of good health amongst the general population of the country. The approach is to increase access to the decentralized public health system by establishing new infrastructure in deficient areas, and by upgrading the infrastructure in the existing institutions. In principle this policy provides for the participation of the private sector in all areas of health activities. The State Government follows the National Level policy for development of Health Infrastructure, one of the major objectives being attainment of 'health for all'.

7.3.2 Existing Situation

Ranchi is the healthcare hub not only for the people of Jharkhand but also for people of nearby region. The hospitals in Ranchi, though many in number are mostly ill equipped in comparison with modern hospitals of the bigger cities in India. At present the main hospital of Ranchi city is the Rajendra Institute of Medical Science (RIMS) which is located on Bariyatu road towards north-east of the city. It was established in November 1964 with 36 beds. Presently, it has 1500-beds with 250-doctors and serves the city and nearby city areas. On an

average the numbers of patients per day are 1,121. This hospital has a centre for the specialized treatment for the entire region.

The Central Institute of Psychiatry (CIP) has 643-beds situated at Kanke in the southern part of the city. The CIP, Ranchi is a Government of India institution and only of its nature in eastern India. The British established this hospital on 17th May 1918 with the name of Ranchi European Lunatic Asylum. During that time, it had then a capacity of 174 patients (92-male and 82-female) and catered to the needs of the European mental patients only and it was under the direct control and management of Government of Bihar. In 1922, it was put under the control of a Board of Trustees with various participating state governments represented in the Board and in the very same year its name was changed to European Mental Hospital. The year 1922 is also notable for the fact that the Institute was affiliated to the University of London for the Diploma in Psychological Medicine examination.

Another, Barnabas Hospital run by the mission is having 150-beds and is located on the Church road. There are also three more large hospitals in the city run by the Heavy Engineering Corporation at Jagannathnagar, MECON at Doranda and the Central Coalfield Limited (CCL) at Kanke Road, Ranchi having 350, 62 and 208 beds respectively for their employees.

Other than these hospitals, 30-private hospitals and 28-nursing homes are dotted in different parts of the city to cater the health need of the inhabitants of the city.

7.3.2.1 Hospital for Handicapped

A centre for handicapped is equipped with 10 beds is functioning at Bariatu. It is named as specialized Guru Nanak Artificial Limb Centre and later known as Guru Nanak Home for Handicapped Children (GNH). It does treatment and rehabilitation of the handicapped patients. Till date, around 36,000 handicapped

children have been treated at this centre, 550 artificial limbs have been fitted and 10,900 orthotic appliances supplied.

7.3.2.2 Specialized Hospitals

The salubrious climate of the region favours the setup of a number of specialized hospitals in and around the Ranchi. Around 8 kms north of the Ranchi is located the famous Mental hospital at Kanke. There are three Tuberculosis Sanatoriums near Ranchi city. The oldest of these is at Itki, which is run by the State Government. The other two are Rama Krishna Mission Tuberculosis Sanatorium on the Ranchi Chaibasa Road and the Mahadevi Birla Sanatorium on the Ranchi-Purulia Road on the outskirts of the Ranchi city.

7.3.2.3 Blood Banks

The Ranchi city has three major blood banks i.e. Birsa Blood Bank, Bariatu Road; Red Cross Blood Bank, Morabadi Road and Voluntary Blood Donor's Association is located at Hinoo Indra Path. In addition to these, the city also has 11-numbers of blood banks located at different parts of the city owned by private and governmental hospitals. These blood banks not only serve the city but also the Ranchi Urban Agglomeration areas.

7.3.2.4 Health Centre (HC)

There are other 56-numbers of Health Centres /dispensary owned by the State Government in Ranchi Urban Agglomeration. Out of total, 22-numbers of Health Centres are located in Ranchi City. On an average 1500-outdoors patients visit these dispensaries/ health centres every day. These health centres (HC) are located at Karam Toli Chowk; Karbla Chowk, Bahu Bazar Road; Tupudana Chowk; Ward Office, Nayak Mohalla; T.V Tower , Ratu Road; Lower Chutia , Kamlu Toli; Makchund Toli, Kanta Toli Bus Stand; Tupudana Satranzi; Dibdih Bridge; Bada Ghagra Jagran Toli; Kusai chowk , Kusai Basti; Namkum Auto Stand; Harmu, Panch Mandir; Lowadih Chowk; Lanka Toli , Sector-II; Hesag; Kadhgadha, Kumhar Toli, Chunna Bhatta; JP Market , Dhurwa Bus Stand; Aidhalhatu; M Ali Road Lane, HB Road; Sakhuwa Bagan, Dhurwa; and Jagannathpur , Mausai Badi.

Table No. 7-8: Hospital beds in Ranchi Planning Area

S. No.	Hospitals/ Nursing Homes	Number	Number of beds
1	Government Hospital	14	3,424
2	Non-government/ Private Hospitals	40	2,135
3	Non-government/ Private Nursing homes	25	567
4	Others (Eye / Dental / Orthopedic etc)	4	7
Total		83	6,133

The present availability of hospital beds is 4.2 beds per 1,000 populations, which is reasonably good but for its geographical disparity.

Table No. 7-9: Existing Number of Hospital Beds in RPA-District wise

Planning District	Population (2011)	Existing Number of Beds	Beds per 1000 population
A	3,63,823	1,815	5.0
B	1,65,194	3,369	20.4
C	1,86,029	336	1.8
D	1,23,578	95	0.8
E	1,15,001	63	0.5
F	2,23,584	241	1.1
G	2,79,319	214	0.8
Total	14,56,528	6,133	4.2

7.3.2.5 Veterinary Hospital

The existing veterinary hospital (class I) located on Old H. B. Road at Chutia near Government Bus terminal. The city also has five numbers of Mobile Veterinary hospitals and two temporary hospitals. In addition, there are two private pet clinics in the city to cater the health needs of the pet animals in the city. The location of this hospital is totally non-compatible hence it is proposed to shift such activity near the rural area of the city where there are large numbers of cattle.

7.3.3 Norms for Health facilities

The Norms and Standards for provision of Health Infrastructure in urban areas adopted for Ranchi Master Plan (RMP)-2037 are given in **Table No. 7.10**. This is worked out to provide for 5-beds per 1,000 populations as against the existing 4.21 beds per 1,000 populations and also to result in a balanced distribution of health facilities throughout the city. On this basis, in the year 2037, Ranchi city would have 15,788 beds against 6,133 beds at present by addition of 9,655 beds.

Table No. 7-10: Planning Norms for future provision of Health Infrastructure

S. No.	Category	Population Served	Hierarchy	Planning Norms and Standards	
				Population /Unit	Plot Area (HA)
1	General Referral Hospital (500 beds)	5 Lakh	District	1 for 2.5 lakh	6.0
2	Intermediate Hospital A (200 beds)	1.0 lakh	Community	1.0 lakh	3.7
3	Intermediate Hospital B (80 beds)	1.0 lakh	Community	1.0 lakh	1.0
4	Nursing Homes (25-30 beds), Child Welfare, Maternity Centre, Polyclinics (few beds)	1.0 lakh	Community	0.45 to 1 lakh	0.2-0.3
5	Dispensary	0.15 lakh	Neighbourhood	0.15 lakh	0.08-0.12
6	Medical College		City Level	Total City	15.0
7	Speciality Hospital – City Level		City Level	Total City	8.0

7.3.4 Proposed Distribution of Health Facilities – RMP 2037

On the basis of the norm of 5-beds per 1000 population, the additional bed requirement for RPA works out as 9,655-beds including the present deficiencies. The planning-district-wise distribution of proposed health facilities for 2037 shall be as under:

Table No. 7-11: Proposed Distribution of Health Facilities in RPA for 2037

District	Planning Unit	Population (2037)	Additional Population	Additional Bed Requirement, 2037	Distribution of additional health facilities by number			
					General Hospital (500 beds)	Intermediate Hospital A	Intermediate Hospital B	Nursing Homes
A	1, 2	4,28,204	64381	326	-	1	1	2
B	3, 4	4,81,035	315841	-	-	-	-	-
C	5, 6	4,13,000	226971	765	1	1	1	-
D	7, 8	3,69,990	246412	1755	1	3	2	-
E	9, 10	4,74,210	359209	2308	2	6	1	1
F	11, 12	4,98,865	275281	2253	2	6	-	2
G	13, 14	4,92,332	213012	2248	2	6	-	2
Total		31,57,636	17,01,108	9655	8	23	5	7
* 1 Speciality Hospital with 500-beds provided in the City Facility Centre								

One Speciality Hospital with 500-beds shall be provided in City Facility Centre and a Special Hospital of 500-beds will be provided with Medical College separately in Planning Unit No. 9 at Turup Village. The other required number of general and intermediate hospitals and nursing homes shall be distributed in various Facility Centres throughout the city as in **Table No. 7.12**.

Table No. 7-12: Distribution of Health Facilities in Facility Centres

S No.	Location		Number of Different Health Facilities				
	Planning District	Planning Unit	Facility Centre	General Hospital	Inter. Hospital A	Intermediate Hospital B	Nursing Homes
1	A	PU-1	-	-	1	1	1
2		PU-2	-	-	-	-	1
3	B	PU-3	FC-1	-	-	-	-
4		PU-4	FC-2	-	-	-	-
5			FC-3	-	-	-	-
6	C	PU-5	FC-4	-	-	-	-
7		PU-6	FC-5	1	1	-	-
8			FC-6	-	-	1	-
9	D	PU-7	FC-7	-	1	1	-
10		PU-8	FC-8	1	1	-	-
11			FC-9	-	1	1	-

S No.	Location		Number of Different Health Facilities				
	Planning District	Planning Unit	Facility Centre	General Hospital	Inter. Hospital A	Intermediate Hospital B	Nursing Homes
12	E	PU-9	FC-10	1	2	-	-
13		PU-10	FC-11	-	2	1	1
14			FC-12	1	2	-	-
15	F	PU-11	FC-13	1	2	-	1
16		PU-12	FC-14	1	2	-	-
17			FC-15	-	2	-	1
18	G	PU-13	FC-16	1	2	-	1
19		PU-14	FC-17	-	2	-	1
20			FC-18	1	2	-	-
Total				8	23	5	7

7.3.5 Social Well-being

The Ranchi Master Plan-2037 is a plan with integral facilities for social well-being such as parks, areas for sports and cultural activities distributed throughout the city to be accessible to all.

Refer **Map No. 7.2** for Health Facilities in Ranchi Planning Area

7.4 RECREATIONAL FACILITY

The recreational facilities play a very crucial role in the development of the people and further to the city growth. There is a need to provide emphasis in developing such facilities in the Ranchi Planning Area.

7.4.1 Existing Situation

Ranchi has many organized areas dedicated for the purposes to provide recreational facilities to its inhabitants. A Rock Garden is situated at a distance of about 4-km from Ranchi city on Ranchi-Kanke Road. Rock Garden is carved out of the rocks of Gonda Hill and resembles its design to rock garden of Jaipur. Birsa Jaivik Udyan is situated at a distance of 16-km from Ranchi on Ranchi-Ramgarh Road near Ormanjhi. This Udyan is consists of lots of species of animals, trees

and plants. Nakshatra Van is situated in the heart of the City. It is divided into various sections. There is a big circle in the centre of the park which is divided into arcs. The tree that represents the particular Nakshatras in the zodiac has been planted in each of the corresponding arcs of this garden. Ranchi Lake is located at the base of Ranchi Hills is excavated in the year 1842. Presently this lake is under renovation. A Tribal Research Institute and Museum is Located in Morahabadi which has display of tribal culture of Chotanagpur plateau of the region.

289.27 hectares, which is about 2.14% of the total developed area is reserved for recreational facilities. The present land allocation for the recreational facilities is very low in comparison of the growth of the city. There is a great need to provide more gardens, parks, and playgrounds in the planning area.

Out of total, 43 % of the parks and gardens in the city are not maintained. These are deprived off basic infrastructure services. The total area under parks and garden is 31.20 HA which is quite low in comparison of norms of UDPFI guidelines.

Jharkhand always had a rich history in sports and Ranchi being its capital enhances it as centre for numerous sports activities - few of them are cricket, hockey, football and many other. Ranchi has hosted the 34th National Games in 2011, due to which it has adequate infrastructure for different sports. Ranchi has separate International level stadiums for different sports like athletics, hockey, football, lawn tennis, swimming, boxing, volleyball, shooting range etc. Government has planned to open a Sports University in Khelgaon, Ranchi. A world class cricket academy will be opened by Indian cricket captain MS Dhoni in Ranchi. An International Cricket stadium with an indoor stadium and a practice ground is constructed and is likely to host matches after clearance from the ICC "Ranchi Cricket Stadium". A Tennis Academy, which was inaugurated by Sania Mirza and Shoaib Malik, also runs besides the Cricket stadium. Ranchi is also famous for being the hometown of World Cup winning Captain of Indian Cricket

team, Mahendra Singh Dhoni. The total area covered under stadium and playground facilities in the city is 219.04 HA.

The Ranchi City has 3-well known mela grounds located at Jaggannathpur, near Vidhanshaba and at Morabadi area. The total area under mela/fair grounds is 16.81 hectare.

A bio-diversity park is being developed over an area of 219.34 hectares (2.19 Sq. km) of protected forest of Lalkhatanga & Garkhatanga of C D block Khijri. It is 16 kms from Vana Bhawan, Doranda and is situated between 24°14'40" N to 23°15'37" N Latitude & 85°19'53" E to 85°21'30"E longitude on Tupudana-Namkum Ring Road The main objective of this park is to conserve the biodiversity of the Ranchi plateau and to maintain the genetic stock available therein.

7.4.2 Proposed Recreational Facility in Planning Area

In the Ranchi Master Plan (RMP)-2037, 4,327.0 hectares area is earmarked for recreational activity at city level. Planning Unit wise distribution of recreational area is given in **Table No. 7.13**.

Table No. 7-13: Planning Unit wise distribution of Recreational Areas in RMP-2037

Planning Unit	Recreational Area (Hectare)
1	80.89
2	47.60
3	123.25
4	311.17
5	187.13
6	227.88
7	312.72
8	317.09
9	82.43
10	284.22
11	314.48
12	409.05

Planning Unit	Recreational Area (Hectare)
13	1,373.10
14	255.97
Total	4,327.00

7.4.2.1 District Level Parks

The norms and future requirements of recreational Parks and Gardens areas are detailed in **Table No. 7.14** and provision for the same in **Table No. 7.15**.

Table No. 7-14: Norms and Standards for provision Parks

S. No.	Facility	Population	Area	Location
1	District Park	5 lakh (average)	6.0 ha	To be provided in District Facility Centres
2	Community Park	1 lakh	3.0 ha	To be provided in Community Facility Centres
3	Neighbourhood Park (to be provided in Neighbourhood centers)	15,000	1.0 ha	In Neighbourhood Centres
4	Housing area Park	5,000	0.5 ha	In the layout plan

Table No. 7-15: Recreational Areas in DC, CC, NC and HC

S. No.	Type	Area/ Unit (hectare)	Total No.	Total Area (hectare)	Provision in Master Plan-2037
1	District Park	6.0	3	18.0	Within Integrated District Centres
2	Community Park	3.0	29	87.0	Within Integrated Community Centres
3	Neighbourhood Park	1.0	207	207.0	Within Neighbourhood Centres
4	Housing Area Park	0.5	627	314.0	Within Layout Plan

7.4.2.2 Sports

Sports activities are an important part in the physical and social development of an individual and its importance in community life cannot be overstated. The Ranchi Master Plan (RMP)-2037 emphasises the provision of space for sports activities at all levels of the hierarchy. The norms and future requirements of Sports areas are detailed in **Table No. 7.16 and Table No. 7.17.**

Table No. 7-16: Norms for Sports Facilities

S. No.	Category	Population per Unit	Area per unit (Ha)	Number	Provision
1	City Sports Centre	15 lakh	100	1	Provided within City Centre
2	District Sports Centre	5 Lakh	10	3	Provided with in District Facility Centres
3	Community Sports Centre	1 – 1.5 lakh	3	17	Provided within Community Facility Centres
4	Neighbourhood Play Area	15,000	1	161	Provided within Neighbourhood Centres

Table No. 7-17: Provision of Sports Facilities in RMP-2037

S. No.	Category	Area per unit (Ha)	Total Number	Total Area (Hectare)	Provision
1	City Sports Centre	100	1	160.0	Within City Centre
2	District Sports Centre	10	3	30.0	Within District Facility Centres
3	Community Sports Centre	3	17	51.0	Within Community Facility Centres
4	Neighbourhood	1	161	161.0	Within

S. No.	Category	Area per unit (Ha)	Total Number	Total Area (Hectare)	Provision
	Play Area				Neighbourhood Centres

Refer **Map No. 7.3** for Recreational Facilities in Ranchi Planning Area

7.5 SOCIO-CULTURAL FACILITY

Socio-cultural facilities are an important component for the development of a City. At present, there are 92-Community Hall, 25-Recreational Clubs, 5-Socio-Cultural Centre at District level and 3-Cultural Centres at City Level. For the new areas, socio-cultural facilities shall be provided based on the norms given in **Table No. 7.18.**

Table No. 7-18: Proposed Norms for Socio-Cultural facilities

No	Socio-cultural facilities	Hierarchy	Pop./Unit (approx.)	Area (Ha)	Remarks
1	Community hall including provision for marriages, small public gathering, function, eating joint, and library etc.	Neighbourhood	15,000	0.20	To be accommodated in Neighbourhood centres
2	Recreational Club including Music, dance and drama centre	Community	1,00,000	1.0	To be provided in Community Facility Centres
3	District Socio-cultural Club	District	5,00,000	5.0	To be provided in District Facility Centres
3	City level Socio-cultural centre	City	City Level	15	To be provided in the City Facility Centre

The provision of additional Socio-Culture Centre and facilities are detailed in Table No. 7.19.

Table No. 7-19: Proposed Norms for Socio-cultural facilities

S. No.	Socio-cultural facilities	Area./Unit (Ha)	Total No.	Total Area (Ha)	Remarks
1	Community hall including provision for marriages, small public gathering, function, eating joint, and library etc.	0.20	119	23.80	To be accommodated in Neighbourhood centres
2	Recreational Club including Music, dance and drama centre	1.0	7	7.0	To be provided in Community Facility Centres
3	District Socio-cultural Club	5.0	7	35.0	To be provided in District Facility Centres
3	City level Socio-cultural centre	15.0	-	-	To be provided in the City Facility Centre

Marriage and banquet halls each of 0.1 ha, shall be provided one each in the proposed 14 facility centres.

7.6 POLICE AND SECURITY

Security is both a prerequisite for, and a critical aspect of development. At high levels of insecurity, development is impossible. Indeed the opposite takes place. Economies fail, states go into negative economic growth; societies lose cohesion, levels of health, education and professional capacities regress. Police plays an important role in providing security and peace in the city.

7.6.1 Existing Situation

In the Ranchi Urban area there are 19-police stations along with 4-out posts located at different parts of the city. In the rural areas of the district, the total numbers of police stations are 22 and 2-outpost police station. The total manpower is 4,120 including officers and men at all ranks.

The police stations are located at Kotwali, Doranda, Hatia, Hindpiri, Jaggannathpur, Argora, Sukhdev Nagar, Gonda, Chutia, Lalpur, Lower Bazaar, Bariyatu, Sadar, Daily Market, Dhurwa, Ormanjhi, Namkum, Kanke and Ratu. In the Ranchi Urban area, there are 19-police stations along with 4-out posts.

7.6.2 Norms and Standards

The following planning norms are adopted for security facilities for RMP 2037:

Table No. 7-20: Proposed Norms for provision of Security facilities

No	Security Facilities	Hierarchy	Pop./Unit (approx.)	Area
1	Police Station	Community level	0.90 lakh	1.5 ha
2	Police Post	Community level	0.50 Lakh	0.16 ha
3.	District Police Office and Battalion	City Level	10 Lakh	4.80 ha
4.	Police Line	City Level	20 Lakh	6.0 ha
5.	District Jail	City level	10 Lakh	10.0 ha

7.6.3 Provision of Police Facility in RPA-2037

Five additional police stations and 54-number of outposts are required, which shall be distributed as in Table 8.21:

Table No. 7-21: Additional Police & Security Facility in RMP-2037

No	Security Facilities	Area/Unit (Ha)	Total No.	Total Area (Ha)	Remarks
1	Police Station	1.5	5	7.50	Within Facility Centre
2	Police Post	0.16	54	8.64	Within Facility Centre and

No	Security Facilities	Area/Unit (Ha)	Total No.	Total Area (Ha)	Remarks
					Community Level
3.	District Police Office and Battalion	4.80	2	9.60	District Level
4.	Police Line	6.0	1	6.00	City Level
5.	District Jail	10.0	2	20.0	City Level

The Police Stations are provided as part of the Facility Centres. The District Jails are proposed to be relocated in PU-9 within in Ranchi Master Planning Area.

The existing Jail area is proposed to be developed as a multi-use complex with details as given under:

• Cultural and Institutional	30%	2.4 ha
• Commercial	30%	2.4 ha
• Parks	20%	1.2 ha
• Parking	20%	1.2 ha

7.7 FIRE SAFETY

7.7.1 Existing Situation

Fire Services are needed for protecting people from fire hazards, building collapses, and other unforeseen emergencies. At present, there are 4 numbers of Fire Stations i.e. Rajendra Chowk, Audrey House, Dhurwa (Old Central School), Piska More (BIADA Rest house) in Ranchi Planning Area. Out of the four Fire Stations, only 1 (one) fire station i.e. Rajendra Chowk fire station has been accommodated in its own premises with underground water storage facility and the rest are in rented temporary premises.

7.7.2 Norms and Standards for Fire Services

The following norms are prescribed for the provision of fire stations:

- 1 fire station or sub-fire station to be provided for 1.5 lakh population

within 3 Km radius.

- Area for fire station with essential residential accommodation 1.00 ha
- Area for sub-fire-station with essential residential accommodation 0.6 ha

7.7.3 Fire Services - 2037

16-Fire Stations have been proposed to be developed in Ranchi Planning Area by 2037. The total additional land requirement for fire services is 19.0 hectares by 2037. **Table No. 7.22** shows the number of the existing and the proposed fire stations in Ranchi Master Plan area.

Table No. 7-22: Fire Service in Ranchi Planning Area: 2037

Planning District	Planning Unit	Population 2037	No. of Fire Stations 2011	Additional No. of Fire Stations	Additional Land Requirement (Ha)	Total No. of Fire Stations 2037
A	1, 2	4,28,204	1	2	2.0	3
B	3, 4	4,81,035	1	2	2.0	3
C	5, 6	4,13,000	-	3	3.0	3
D	7, 8	3,69,990	-	2	2.0	2
E	9, 10	4,69,170	-	3	3.0	3
F	11, 12	4,98,865	-	3	3.0	3
G	13, 14	4,97,372	2	1	1.0	3
Total		31,57,636	4	16	16.0	20

The following Guidelines are to be followed for locating the Fire Stations and other Fire Fighting Facilities in the Planning Area:

- Fire Stations to be located on corner plots as far as possible and on main roads with minimum two entries;
- In new layouts for residential, commercial and other developments, concept of underground pipe lines on the periphery, exclusively for fire fighting services should be considered

Fire Stations shall be permitted in all land use zones except recreational and eco-sensitive zones.

7.7.4 Disaster Management Centre

Ranchi is prone to natural hazards including earthquakes. According to the Indian Seismic Zone Map, Ranchi is placed in the Seismic Zone II. A Disaster Management Centre has been proposed in Ranchi Planning Area on 5-hectare of land with suitable open area (2 hectare) for soft parking, temporary shelter etc. This centre would accommodate a Fire Station and Trauma Centre for coordination at the time of emergencies. The Trauma Centre should be on 1-hectare of land and have a minimum of 100 beds. This would be linked with lower order Trauma Centres to be provided in selected hospitals.

The following policies and strategies for Disaster Management are proposed:

7.7.4.1 Pre-Disaster Preparedness

- The Fire Services department being the nodal agency for disaster management, should identify vulnerable areas e.g. areas with high density and poor accessibility in the city and propose suitable measures;
- Sensitize people about after effects of disaster particularly school children;
- Make people aware through media campaigns and advertisements about emergency procedures and location of emergency shelters etc.

7.7.4.2 Post Disaster Management

- It has been observed that any disaster is generally followed by break down of communication lines and disruption of essential services. Therefore, the key communication centres should be safely located to be free from natural disasters e.g. flood, fire and earthquake.

7.8 POSTAL SERVICES

7.8.1 Existing Situation

The General Post Office (GPO) is located at Sahid Chowk, Upper Bazaar area and another Head Post office is located on Hinoo road, Doranda. In addition to these, there are 47-numbers of sub-post offices located in different parts of Ranchi Urban Area. Out of total, 41-numbers of sub post offices are scattered in Ranchi city.

7.8.2 Norms and Standards

Planning norms for provision of postal facilities in the Planning Area are given in **Table No. 7.23**.

Table No. 7-23: Planning Norms for Postal Facilities in Ranchi Planning Area

S. No.	Postal Facility	Population per Unit	Area
1	Sub Post Office Counter without delivery (At Local Shopping Centre)	10,000 to 15,000	60 sq. m to 85 sq. m.
2	Head Post Office with Delivery Office (At Community Centre)	2 lakh - 2.5 lakh	480 sq. m to 750 sq. m.
3	Head Post Office with Administrative Office (At District Centre)	4 lakh - 5 lakh	2,000 sq. m. to 2,500 sq. m.

7.8.3 Proposed Additional Postal Facilities

The proposal for postal facilities for Ranchi Planning Area-2037 is given in **Table No. 7.24**.

Table No. 7-24: Proposed number of postal facilities in the planning area

S. No.	Postal Facility	Additional Requirement (Nos)	Additional Area Required (Ha)
1	Sub Post Office	123	1.23
2	Head Post Office with Delivery Office	12	0.96
3	Head Post Office with Administrative Office	5	1.25
Total Area		-	3.44

The Sub Post Office Counters without delivery shall be provided in the Neighbourhood Centres.

7.9 TELECOMMUNICATION

7.9.1 Existing Situation

The Bharat Sanchar Nagar Limited (BSNL) telephone exchange situated at Ranchi near Firyalal Chowk is catering the Tele-communication need of the Planning Area. The Ranchi circle has three main exchanges with equipped switching capacity of 1,39,944. The total broadband capacity of Ranchi city exchange is about 34,510. The Telecommunication density of the Ranchi circle is 3.5 per 100 persons against the national average of 10 per 100 persons, which is quite low and need to be improved.

7.9.2 Additional Provision in Planning Area

With privatization, most of the space requirement is expected to be satisfied in the private sector. Norms for provision of Telephone Exchanges is given in **Table No. 7.25**.

Table No. 7-25: Norms for provision of Telephone Exchanges

No	Postal Facility	Pop./Unit (approx.)	Area	Location
1	Telephone Exchange (With 40,000 lines)	4.0 – 5.0 lakh	2500 sq. m.	District Commercial Centre
2	RSU (Remote Subscriber Unit)	1 No. within a radius of 3 Km	300 sq. m.	Community Commercial Centre

Each of the proposed District Commercial Centres is provided with 1-Telephone Exchange (area 2500 sq. m.) and on similar lines each of the Facility Centres proposed in the Planning Area within Community Centres is provided with an RSU (300 sq. m.).

7.10 DISTRIBUTIVE FACILITIES

The distributive facilities include Milk Distribution, Vegetable Distribution, LPG Storage and Petrol Pumps.

7.10.1 Planning Norms and Standards

Planning Norms for Milk distribution and LPG storage are given in **Table 7.26**.

Table No. 7-26: Planning Norms and Standards for Distributive Facilities

S. No.	Category	Planning Norms and Standards
1.	Milk Booth/Milk and Fruit and Vegetable Booth	One per 5,000 population (in residential developments)
2.	LPG Godown including Booking Office.	3-LPG Godowns per 1 lakh population in facility centres
3.	Petrol Pump	<ul style="list-style-type: none"> 1-Petrol Pump for 150 ha of gross residential areas in residential use zone 1-Petrol Pump for 40 ha of gross industrial area 2-Petrol Pumps in each freight complex 2-Petrol Pumps in each district centre 1-Petrol Pump in each community centre

Additional Provision - 2037

It is estimated that 98-additional petrol pumps, 342-additional milk cum vegetable booths and 58-additional LPG godowns shall be required within Ranchi Planning Area by 2037.

The additional petrol pumps proposed in Ranchi Planning Area (RPA) by 2037 are distributed as under:

Table No. 7-27: Proposed Locations of Petrol Pumps in RPA-2037

District	Number of Petrol Pumps
Planning District -A	12
Planning District -B	12
Planning District -C	14
Planning District -D	12
Planning District -E	14

District	Number of Petrol Pumps
Planning District -F	14
Planning District -G	20
Total	98

The petrol pumps shall adhere to the following conditions:

- a) Minimum frontage
 - i. Only filling station 30 m x 17 m
 - ii. Filling cum service station Minimum Size: 36 m x 32 m
Maximum Size: 45 m x 33 m
 - iii. Frontage of the plot should not be less than 30 m
 - iv. Longer side of the plot should be the frontage
- b) Road R/W distance from the road intersection:
 - i. New Petrol pumps shall not be located on the road R/W less than 30 m
 - ii. Minimum distance from road intersections 100 metres

7.11 CREMATION AND BURIAL GROUND

There are three major existing graveyards, one north-east of BMP ground on the other side of Ranchi-Chaibasa Road in Doranda, one on Ratu Road near Pahari Mandir hill and another one on the Lohardaga Road. A war cemetery is located on the old Hazaribagh road at Kantatoli. Other small graveyards are scattered throughout the city. The burning Ghats are located by the side of Harmu and Subernrekha rivers in Doranda, Ranchi and Namkum. Altogether (58-Nos) it covers an area of 37.90 HA.

Additional Provision of Cremation and Burial Grounds

The provisional of additional cremation and Burial ground in Ranchi Planning Area are detailed in **Table No. 7.28**.

Table No. 7-28: Proposed number of Cremation & Burial Ground in Planning Area

S. No.	Postal Facility	Additional Requirement (Nos)	Additional Area Required (Ha)
1	Burning Ghats	3	1.5
2	Graveyards/Burial Grounds	5	10
Total Area		-	11.5

In RMP-2037, 3-additional sites have been proposed for Cremation/Burning Ghat in Planning Unit (PU-6, PU-10 and PU-13) and 5-Burial grounds in Planning Units (PU-6, 9, 10, 12 and 13) each of 2 ha.

Refer **Map No. 7.4** for Other Community Facilities in Planning Area

7.12 HIERARCHY OF SOCIAL INFRASTRUCTURE

A planned city for an environment of convenience should have a hierarchical cellular structure; with nuclei to contain essential facilities and services at different levels. Accordingly a five-tier hierarchy is proposed for the provision of social infrastructure as follows:

Tier I	:	City level	City Population
Tier II	:	District level	3-5 lakh population
Tier III	:	Community level	1-1.5 lakh population
Tier IV	:	Neighbourhood level	15,000 population
Tier V	:	Housing Cluster level	5,000 population

The pattern of a community module is conceived as residential area containing a 'neighbourhood' with senior school and shopping facilities for day-to-day needs. The higher level of additional facilities is to be provided at Community, District and City levels. Such a structure could be maintained during the preparation of plans on the basis of standards set in the foregoing sections.

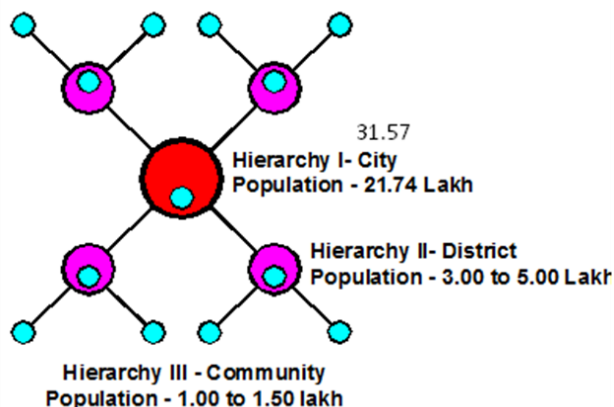


Figure No. 7-1: Hierarchy of Social Infrastructure

7.12.1 Facility Centre

The lower level additional facilities like primary schools, nursery schools, and dispensary are to be provided at the neighbourhood plan level in new development/ redevelopment schemes. The higher order facilities such as general hospital, intermediate hospital, college, integrated schools, and school for handicapped, socio-cultural and recreational club, fire and police stations need to be provided at the master plan level. As it would not be desirable to provide individual locations for these facilities, concept of facility centre has been evolved where a group of facilities along with park and play areas shall be provided in areas available for development within Ranchi Planning Area. The Facility Centres are envisaged at three hierarchical levels viz., City level, District level and Community level.

At the community level, Facility Centres shall contain Community level parks and play areas and shall be clubbed together with Community Commercial Centres. 12-such Facility Centres are as given in **Table No. 7.29**.

Refer **Map No. 7.5** for distribution Facility Centres in Planning Area

Table No. 7-29: Community Level Facility Centres

Facility Centre	District / Planning Unit	Area (HA)	Components
FC-1	B/3	26.91	Polyclinic (1), Nursing Home (2), Integrated School without Hostel (1), Schools for Handicapped (2), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Petrol Pump (1), Police Post (2), Parking , Community Park and Play area (1)
FC-3	B/4	34.93	Intermediate Hospital A (1), Polyclinic (1), Nursing Home (2), Integrated School without Hostel (1), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Night Shelter (1), Bus Terminal (1), Petrol Pump (2), Police Station (1), Police Post (2), Parking , Community Park and Play area (1)
FC-5	C/5	32.23	Integrated School with Hostel (1), Integrated School without Hostel (1), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Religious Building (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Police Station (1), Police Post (2), Parking , Community Park and Play area (1)
FC-6	C/6	25.91	Polyclinic (1), Nursing Home (2), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Night Shelter (1), Bus Terminal (1), Petrol Pump (1), Police Post (2), Parking , Community Park and Play area (1)

Facility Centre	District / Planning Unit	Area (HA)	Components
FC-7	D/7	36.09	Intermediate Hospital A (1), Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Integrated School without Hostel (1), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Religious Building (1), Night Shelter (1), Bus Terminal (1), Police Station (1), Police Post (2), Parking , Community Park and Play area (1)
FC-9	D/8	39.31	Intermediate Hospital A (1), Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Integrated School with Hostel (1), Integrated School without Hostel (1), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Recreational Club (1), Night Shelter (1), Petrol Pump (1), Police Post (2), Parking , Community Park and Play area (1)
FC-11	E/9	21.41	Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Schools for Handicapped (2), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Religious Building (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Petrol Pump (1), Police Post (2), Parking , Community Park and Play area (1)
FC-12	E/10	35.84	Intermediate Hospital A (1), Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Integrated School with Hostel (1), Integrated School without Hostel (1), Schools for Handicapped (2), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Religious Building (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Police Post (2), Parking ,

Facility Centre	District / Planning Unit	Area (HA)	Components
			Community Park and Play area (1)
FC-14	F/11	37.46	Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Integrated School with Hostel (1), Integrated School without Hostel (1), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Religious Building (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Petrol Pump (1), Police Station (1), Police Post (2), Parking , Community Park and Play area (1)
FC-15	F/12	24.03	Intermediate Hospital A (1), Intermediate Hospital B (1), Polyclinic (1), Nursing Home (1), Schools for Handicapped (2), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (1), RSU (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Police Post (2), Parking , Community Park and Play area (1)
FC-17	G/13	26.18	Intermediate Hospital B (1), Polyclinic (1), Nursing Home (2), Schools for Handicapped (2), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Recreational Club (1), Night Shelter (1), Bus Terminal (1), Parking , Community Park and Play area (1)
FC-18	G/14	25.63	Polyclinic (1), Nursing Home (2), Schools for Handicapped (1), General College (1), Telegraph Booking Counter (1), Music & Drama Centre (1), SKO/LDO Outlets (1), Electric Sub-Station-66 KV (2), Community Centre with Service Centre (1), Organised Informal Sector (1), Sport Centre (1), LPG Godown (2), RSU (1), Recreational Club (1), Night Shelter (1), Parking , Community Park and Play area (1)

At District level, Facility Centres shall contain some higher order district level facilities like District-level Socio-cultural Club, General Referral Hospital, and

Technical Education Centre in addition to general community facilities. These Facility Centres are proposed to be part of Composite Use Integrated District Centres where District Commercial Centres and District level parks and play areas shall also be developed in addition to Facilities. The components for a district level facility centre are detailed as follows:

Table No. 7-30: District Level Facility Centres

Facility Centre	District / Planning Unit	Area (HA)	Components
FC-2	B/3	42.70	District-level facilities District Socio-Cultural Club (1), General Referral Hospital (1), Old Age Home, Orphanage, Working Men/Women Hostel (1) Other Community Facilities Intermediate Hospital B (1), Nursing Home (2) Integrated School with Hostel (2), Schools for Handicapped (2), General College (1), LPG Godown (1), Fire Station (1), Parking etc
*FC-4	C/6	31.75	District-level facilities Hospital for pets (1), Technical Education Centre (1), Old Age Home, Orphanage, Working Men/Women Hostel (1), District Park and Play Area Other Community Facilities Nursing Home (1), Integrated School with Hostel (1), Schools for Handicapped (2), Religious Building (1), Fire Station (1), Parking
FC-8	D/8	30.00	District-level facilities General Referral Hospital (1), Hospital for pets (1), Old Age Home, Orphanage, Working Men/Women Hostel (1), Other Community Facilities Nursing Home (2), Integrated School with Hostel (1), Schools for Handicapped (2), General College (1), Religious Building (1), LPG Godown (1), Fire Station (1), Parking
FC-10	E/9	49.85	District-level facilities District Socio-Cultural Club (1), General Referral Hospital (1), Hospital for pets (1), Old Age Home,

Facility Centre	District / Planning Unit	Area (HA)	Components
			Orphanage, Working Men/Women Hostel (1), District Park and Play Area Other Community Facilities Intermediate Hospital B (1), Nursing Home (2) Integrated School with Hostel (2), Schools for Handicapped (2), Religious Building (1), Fire Station (1), Parking
FC-13	F/12	54.85	District-level facilities District Socio-Cultural Club (1), General Referral Hospital (1), Hospital for pets (1), Old Age Home, Orphanage, Working Men/Women Hostel (1), District Park and Play Area Other Community Facilities Intermediate Hospital B (1), Nursing Home (2) Integrated School with Hostel (2), Schools for Handicapped (2), Fire Station (1), Police Station (1), Parking
FC-16	G/14	49.45	District-level facilities District Socio-Cultural Club (1), General Referral Hospital (1), Hospital for pets (1), Old Age Home, Orphanage, Working Men/Women Hostel (1) Other Community Facilities Intermediate Hospital B (1), Nursing Home (1) Integrated School with Hostel (2), Schools for Handicapped (2), General College (1), Fire Station (1), Parking

Note: * City Level Facility

The City-level Facility Centre shall contain higher order city-level facilities in addition to general community facilities. The City Facility Centre is envisaged to be developed on 68 ha land at village Lem (Thana No. 162). For the components to be included in the city level facility centre refer to **Table No. 7.31**.

Table No. 7-31: City Level Facility Centres

Facility Center	District/ Planning Unit	Area (ha)	Facilities
-----------------	-------------------------	-----------	------------

FC-II	C/6	68.0	City level facilities (26 ha) Sports Club (4 ha), Socio-cultural Club (2 ha), Exhibition Gallery-cum-Cultural Centre (4 ha) , Museums (2 ha), Speciality Hospital (6 ha) Multi-family housing, hotels and hostels (8 ha) Other Facilities (16 ha) Intermediate Hospital A (1), Intermediate Hospital B (1), Nursing Home, Integrated School with Hostel (1), Schools for Handicapped (2), General College (1) Police Station (1), Parking
-------	-----	------	---

7.12.2 Public and Semi-public areas of city/ regional significance

In addition to the above, the following public and semi-public facilities of city/regional significance are located in different parts of RPA.

Table No. 7-32: Major City level facilities

Facilities	Area (in Hectare)
Exhibition-cum-Fair Ground	218.0
Golf Course	182.0
City Park	100.0
Education and Research Hub (including Medical College)	240.0
University and Professional College	565.0
Sports Complex/centre	160.0
Total Area	1465.0

Note: Capital Complex is not included as it is being proposed in Greater Ranchi

Refer **Map No. 7.6** for City Level Facility in Planning Area

7.12.3 Neighbourhood Centre

The neighbourhood centres are the nuclei of 15,000 populations. For the development of such centres, it is proposed that an area of 12-hectare is to be acquired out of which about 70% net area i.e., 8.4-hectare shall be available after providing for roads and common facilities like common parking, shopping etc. 5.4-hectare shall be developed for part provision of social infrastructure for the

neighbourhood. The remaining 3-hectare shall be developed for housing, out of which 10% of the total sector area i.e., 1.2-hectare shall be given back to the persons from whom the land has been acquired, proportionate to the area acquired at no-profit-no-loss basis. Remaining residential area shall be used for housing to be disposed of in open auction. This method is developed to make the land acquisition process attractive to the landowners. Once this experiment is successful, the same could be adopted for development of other residential and other areas in Ranchi. For distribution of 12-hectare area, refer **Table No. 7.33**.

Table No. 7-33: Details of Neighbourhood Centres

S. No.	Facilities	No.	Area	Total Area (sq. m.)	Total Area (Ha)
1	Sr. Secondary School	2	10,000	20,000	2.00
2	Dispensary	2	1,000	2,000	0.20
3	Community hall and Library	1	2,000	2,000	0.20
4	Electric Substation 11 KV	2	460	920	0.09
5	Local Shopping incl. Service centre	1	4,600	4,600	0.46
6	Three wheeler and taxi stand	1	500	500	0.05
7	Neighbourhood Park	1	8,000	8,000	0.80
8	Neighbourhood Play Area	1	8,000	8,000	0.80
9	Primary School	2	4,000	8,000	0.80
Sub-Total A					5.40
10	Housing Area		30,000	30000	3.00
Sub-Total B					9.40
11	Roads and Common Facilities		26,000		3.6
Grand Total					12.00

The Neighbourhood Centres in the planning Units provide for facilities for the additional population and considering 30 % existing deficiency in social infrastructure. Refer **Table No. 7.34**.

Table No. 7-34: Distribution of Neighbourhood Centres in various Planning Units

Planning Unit	Additional Population- 2037	No of Neighbourhood Centres	Neighbourhood Area (in ha)
1	1,19,315	8	96
2	4,532	-	-
3	1,16,061	6	72
4	2,42,230	15	180
5	1,49,707	13	156
6	1,17,091	7	84
7	1,12,978	7	84
8	82,756	10	120
9	9,100	-	-
10	1,17,279	12	144
11	1,48,418	7	84
12	32,760	6	72
13	2,55,140	9	108
14	1,93,741	14	168
Total	17,01,108	114	1368.0

Refer **Map No. 7.7** for location of Neighbourhood Centres in Ranchi Master Plan