

Proposal for New IP Building – AEH Tirunelveli



Presentation Overview

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- Details of existing infrastructure in AEH Tirunelveli

2

- Current workload (IP) in AEH Tirunelveli

3

- Calculation of Space requirement for IP building

AEH TVL – Current Main Building Space Details

Area	Paying block (in Sq.ft)	Free Block (in Sq.ft)
Ground Floor*	17,014	7,060
First Floor**	16,261	7,060
Second Floor	13,706	7,060
Third Floor	13,706	7,060
Fourth Floor	13,706	7,060
Fifth Floor	1,984	-
Total***	76,377	35,300

*Including Auditorium

**Including OP Registration extension

***Including Circulation Area

Paying OP- Ground Floor

S.No	Area	Current Space (in Sq.ft)
1	Old Registration	198
2	House keeping	137
3	Store	198
4	Class room	820
5	Paediatric	1420
6	Lavelle project	127
7	Orbit	726
8	Glaucoma	2464
9	Lasik	280
10	Conference Hall	261
11	Retina	2162
12	Microbiology	682
	Total	9478*

*Excluding Circulation Area, Auditorium Area

Paying OP- First Floor

S.No	Area	Current Space in Sq.ft
1	Registration waiting area	1063
2	Review Registration waiting area	352
3	Reception cubicle	155
4	Optical	680
5	Unit I	1784
6	Study room	90
7	Low vision	115
8	Contact Lens	108
9	Neuro + CM scheme + waiting	383
10	Refraction waiting + cubicle	436
11	Uvea (empty)	270
12	Lab	213
13	X-Ray	203
14	Unit-II	1071
15	IOL + A-Scan + Counselling + waiting	1619
16	Office + Accounts	270
	Total	8815*

*Excluding Circulation Area ,Toilets, OTS , Lift

Free Hospital Space used by Paying section

S.No	Area	Current Space in Sq.ft
1	Cornea (2 separate room)	1190
2	Wet Lab	380
3	Insurance	320
4	HR, Personnel, Bio-stat, Academic coordinator	310
5	Computer section	280
6	Practical room	580
7	Corridor & toilets	1500
8	Photography	180
Total		4740

TVL – Paying IP Statistics (2008-2016) (Cataract & Specialty)

Total IP	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cataract	9222	10158	12138	12392	12125	11918	12983	13321	14964
Avg / day	30	33	39	40	39	38	42	43	48
YoY Growth %		10%	19%	2%	-2%	-2%	9%	3%	12%
Cat Growth Trend*	3069	3506	4217	4608	5106	5442	5926	5706	6353
Specialty	10	11	14	15	16	18	19	18	20
Avg / day		14%	20%	9%	11%	7%	9%	-4%	11%
YoY Growth %	12291	13664	16355	17000	17231	17360	18909	19027	21317
Spl. Growth Trend*	40	44	53	55	56	56	61	61	69
Total		11%	20%	4%	1%	1%	9%	1%	12%
Avg / day	9222	10158	12138	12392	12125	11918	12983	13321	14964
YoY Growth %	30	33	39	40	39	38	42	43	48
Paying Total IP Growth Trend*		11%	33%	38%	40%	41%	54%	55%	73%

* Keeping year 2008 as base year

TVL Paying -Bed Occupancy rate -2016

Rooms	No of Rooms	No of beds/ day	No of bed days	Total occupied days	Bed Occupancy
Suit	2	2	730	218	30%
A SPL AC	5	5	1825	695	38%
A Class	34	34	12410	8388	68%
A SPL non AC	2	2	730	359	49%
B Class	28	28	10220	6022	59%
C class	4	51	18615	7234	39%
Day care	3	20	6220	8180	132%
Total	78	142	50750	31096	61%

AEH Ponds Vs AEH TVL

IP Statistics	Pondy	TVL
Cataract	2016	2016
Paying	15384	14624
Free Direct	11619	10377
Camp	16902	9300
Total	43905	34301
Specialty	2016	2016
Paying	18292	20603
Free Direct	8894	5871
Camp	991	491
Total	28177	26965
Grand Total	72082	61266

AEH Pondy	AREA (in Sq.Ft)
A Block (Paying)	75,016
B Block (OP & Specialty)	1,02,241
C Block (Free & Camp)	61,209
Total Area	2,38,466*

AEH TVL	AREA (in Sq.Ft)
Paying Block	72,501
Free & Camp Block	35,300
Total Area	1,07,801

* Includes Unutilized area- Halls)

OT Space Planning...

Current Space					Proposed Space for OT Complex					
Theater type	Current no.of tables	Measurement		Current space in Sq.ft	Theatre Code	Specialty	Proposed No.of tables	Measurement		Proposed space in Sq.ft
A-Cat	4	21.3	21	447	A1	Glaucoma	2	21	21	441
B-Cat	2	15	21	315	A2	Glaucoma	2	21	21	441
C-Cat +Paed	4	22	21	462	B1	Paediatric	2	21	21	441
D-Cat+Gl	4	21	21	441	B2	Paediatric	2	21	21	441
E – Cat+GA	1	21.5	15.3	329	C1	Cataract	2	21	21	441
F – Orb+Cor	2	21.5	15.3	329	C2	Cataract	2	21	21	441
Retina OT	2	23	23	529	D1	Cornea	2	21	21	441
					D2	Cornea	1	21	21	441
					E1	Retina	2	21	30	630
					E2	Retina	1	21	21	441
					F1	Orbit	2	21	21	441
					F2	Orbit	1	21	21	441
					G1	Free	2	21	21	441
					G2	Free	2	21	21	441
					G3	Free	2	21	21	441
					H	Dummy	2	21	21	330
Total	20			2852	Total Space		29			7134
Femto Lensx	1	10	17	170		Femto Lensx	1	10	17	170
SOT	1	21.5	11.3	242		Femto Lensx	1	10	17	170
SOT waiting	0	21.5	9	194		SOT	1	22	15	330
Femto Lensx-Lasik	1	10	20	200		SOT waiting		22	9	198
TOTAL				3658	TOTAL					8002

OT Space Planning - Supportive services

Current OT Space- Preparation Area				Proposed Space -Preparation Area			
Facility	Measurement		OT space in Sq.ft	Facility	Measurement		OT space in Sq.ft
Paying Block room	15	21	314	Paying Block room	23	23	529
Free Block room	21	24	509	Free Block room	23	23	529
Flash 1	16	5	78	Flash 1			154
Flash 2	14	7	88	Flash 2			154
ETO	10	10	100	ETO	10	10	100
Pre OP room	11	14	142	Pre OP area Paying	13	15	195
Autoclave	21	15	315	Pre OP area- Free & Camp	13	15	195
GA	12.5	14	169	Autoclave			449
Dress change room	11	22	231	GA- Pre OP area	13	15	195
Sub store	10	11	113	GA Patient- Attenders Waiting Area	10	10	100
Linen Washing room	10	19	185	GA recovery room	21	21	441
Washing room verandah	28	8	219	Dress Changing room	23	23	529
				Sub Store	15	15	225
				Linen washing room	23	23	529
				Flash Sterilization 3			154
				Bin Packing area	22	22	484
				Sterile Store			154
				ICU	20	12	240
				4 Toilets (Staff & Patient)	7	4.5	126
Total	179	167	2463	Total	236	232	5483

OT Area Requirement

Current Vs Proposed

Area	Current In Sq.ft	Proposed In Sq.ft
OT & Support Services*	6121	13485

*Excluding Circulation Area (@ 30%)

OT Complex	8002
OT Space Planning - Supportive services	5483
Total OT Area (Excluding Circulation Area (@ 30%))	13485

AEH TVL-Patient Accommodation Details

Current		
Room Type	No of Rooms	No of beds
Suit	2	2
A SPL AC	8	8
A SPL non AC	2	2
A Class	38	38
B Class	28	28
C Class	4	47
Day care	2	17
Total	84	142

Proposed		
Room Type	No of Rooms	No of beds
Suite	2	2
A SPL AC	10	10
A Class	45	45
B Class (Pvt- AT*)	25	25
C Class (Pvt-CT**)	10	10
D Class	9	42
Day care	2	40
Total	103	174

AT*- Attached Toilet
CT**- Common Toilet

Ward Area- Total Space Requirement

Type of Rooms	Measurement	Sq Ft	No of rooms	Area in Sq.ft
Suite		350	2	700
ASA	21 x 10	210	10	2100
A class	21 x 10	210	45	9450
B Class	15 x 11	165	25	4125
C Class	10x10.5	105	10	1050
D Class	20.5 x 20.5	420	9	3780
Day care		850	2	1700
Total (Patient Accommodation Area)			103	22905
Nursing Station	10 x 10	100	4*	400
Examination Room	21 x 10	210	4	840
Doctors Duty room	15x11	150	4	600
ICU	10x10	100	1	100
Total (Patient Screening & Staff Accommodation Area)				1940
Total IP Area Requirement				24,845

IP Building Requirement

Area	Proposed (In Sq.ft)
Ward	13,485
OT	24,845
Total	38,330*

*Excluding Circulation Area(@ 30%)

Other Requirements in the proposed building

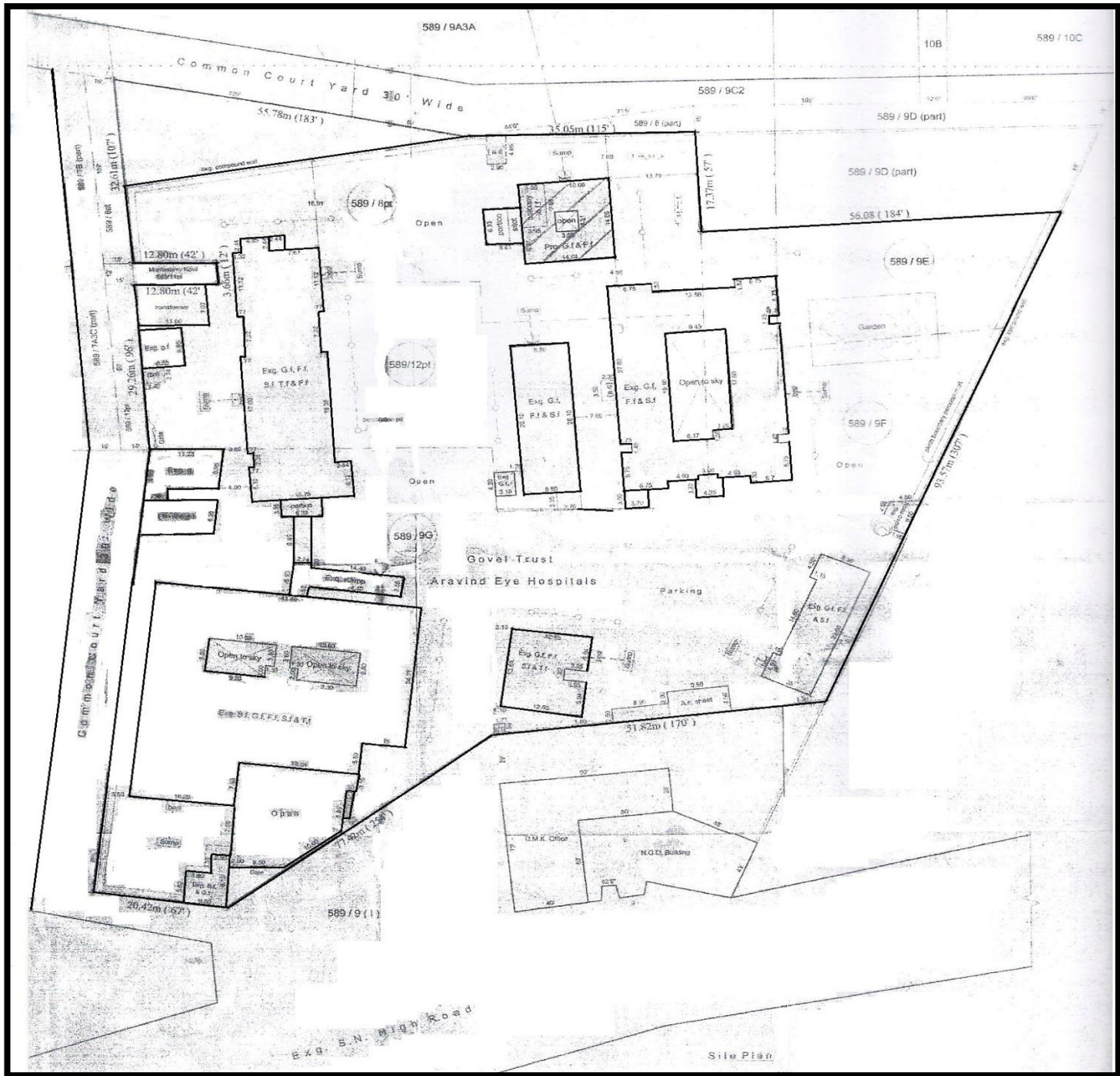
Area	Purpose	Remarks
Meeting Hall with 400+ Seating Capacity	Common area for conducting functions like hospital day, Exhibitions, MLOP Selection & Admission etc.	Total staff at TVL -720 staff
Class rooms	For Doctors & MLOP Training	271 MLOP Trainees 43 Resident/Fellows
Parking area (basement)	Staff & inpatients' Vehicle Parking	70-100 IP Admissions every day

OP & Admin Space Requirement- If new IP Building is built

the existing OP building will be sufficient to cater the proposed space requirement

S. No	Department	OPD (Avg/day)	OPD in 2020 (Avg/Day)	Space (in Sq.ft)	Space req (in Sq.ft)
		Current	Projected	Current	Proposed
1	General OP Unit 1 & VC Consultation	163	289	2,052	2250
2	General OP Unit 2	176	312	1,232	2250
3	General OP Unit 3				2250
4	Paediatric Clinic	118	210	2,576	3,158
5	Cataract & Pre OP Clinic	182	322	2,299	4,419
6	Glaucoma Clinic	184	326	2,834	4,051
7	Cornea Clinic	95	168	1,369	1,717
8	Retina OP & Investigation & Uvea Clinic	172	416	2,486	8,937
	Orbit Clinic	52	93	835	1,446
Sub Total				15,681	30478
9	Clinical Support Services & Non Clinical area, Toilets, OTS & Circulation Area			21,470	27,989
10	Area of Free Hospital used for paying Hospital			4,372	
Grand Total				41,523	58,467

Site Plan



THANK YOU

Patient Accommodation

Suite



A-Class (A/C)



A-Class (Non A/C)



B-Class



Patient Accommodation

C- Class



D Class - Common Ward

