

**Sub: Norms for estimation of average daily water demand for levy of IF Charges charges superceding earlier circulars dated 24.08.2015 from EE(Plg)Water-I and its amendemants No.1 vide circular dated 02.02.2016 from EE(Plg)W-III.**

S.No	TYPES OF BUILDINGS		Occupancy load to be adopted in the department for sanction of Water supply schemes	water requirement	Potable Water Requirement	Non Potable Water Requirement	Remarks	
	GROUP A							
1	A-1	Lodging or Rooming houses	1P/bed	135 LPCD	90 lpcd	45 lpcd	(i) No. of beds shall be as per sanctioned building plans from the public authorities like DDA, MCD or any other government approved public authority wherever it is not specIF Chargesied by public authorities two number of beds per room shall be considered. (ii) 5% additional demand towards contingency/floating occupancy. (iii) Infrastructure Fund will be calculated on total water requirement	
2	A-2	One or two family private dwellings (HIG/MIG)	5P/DU	225 LPCD	180 lpcd	45 lpcd	Category and number of DU's will be considered as per the sanctioned building plan from the public authorities like DDA, MCD or any other Govt approved public authority for the purpose. In other cases, DU with carpet area less than 40 sqm will be considered as EWS/LIG. Number of DU's in plots will be 1 DU per kitchen subject to minimum of 1 per floor. <b>Infrastructure Fund will be calculated on total water requirement</b>	
		One or two family private dwellings (LIG/EWS)	5P/DU	135 LPCD	90 lpcd	45 lpcd		
		Servant Quarters Attached to the above DU's	3P per servant quarter	135 LPCD	90 lpcd	45 lpcd		<b>Infrastructure Fund will be calculated on total water requirement</b>
		Servant Room attached to the above DUs	1 per servant room	135 LPCD	90 lpcd	45 lpcd		<b>Infrastructure Fund will be calculated on total water requirement</b>
3	A-3	Dormitories/Orphanages	1P/Bed	135 LPCD	90 lpcd	45 lpcd	IF Charges no. of beds are not specIF Chargesied, then these shall be worked out at the rate 1 bed/7.5 sqm. Additional 5% of total demadn shall be considered towards contingency/floatingoccupancy. Infrastructure Fund will be calculated on total water requirement	
	Residential							

4		A-4	Apartment houses (flats) (HIG/MIG)	5P/DU	225 LPCD	180 lpcd	45 lpcd	Category and number of DU's will be considered as per the sanctioned building plan from the public authorities like DDA, MCD or any other Govt approved public authority for the purpose. In other cases, DU with carpet area less than 40 sqm will be considered as EWS/LIG. Number of DU's in plots will be 1 DU per kitchen subject to minimum of 1 per floor. <b>Infrastructure Fund will be calculated on total water requirement</b>	
			Apartment houses (flats) (MIG/EWS)	5P/DU	135 LPCD	90 lpcd	45 lpcd		
			Servant Quarters Attached to the above DU's	3P per servant quarter	135 LPCD	90 lpcd	45 lpcd		<b>Infrastructure Fund will be calculated on total water requirement</b>
			Servant Room	1 per servant room	135 LPCD	90 lpcd	45 lpcd		<b>Infrastructure Fund will be calculated on total water requirement</b>
5		A-5	Hotels	Per Bed	180 LPCD	135 lpcd	45 lpcd	(i) Number of Beds will be considered as specIF Chargesied in the sanctioned plan by the public authorities. Wherever it is not specIF Chargesied, 2 no. beds per room shall be considered . (ii) Additional occupancy load has to be taken at 1 P/0.6 sqm for given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand for such occupancy will be considered @15 LPCD. (iii) Additional 5% of total demand shall be considered for contingency/floating occupancy. (iv) IF Charges will be calculated on potable water requirement only in case total water demand is more than 12,500 lpd.	
6		A-6	Hotels (Starred)	Per Bed	320 LPCD	275 lpcd	45 lpcd		
	<b>GROUP B</b>								
7	Educational	B	All Colleges/ School/ Training Institutions	1P/4 Sqm	45 LPCD	15 lpcd	30 lpcd	(i) Additional 5% of total calculated water demand as floating /contingency occupancy. (ii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd	
	<b>GROUP C</b>								

8	Institutional	C-1	Hospitals and Sanatoria	No of bed	340 LPCD upto 100 beds /450 LPCD above 100 beds	250 lpcd upto 100 beds/360 lpcd above 100 beds	90 lpcd upto 100 beds/90 lpcd above 100 beds	<p>(i) In case of sanctioned building plan of hospitals , Nursing homes etc.in catagory 'C' number of beds shall be considered as specIF Chargesied in the sanctioned plan. Where ever it is not specIF Chargesied in the santioned plan, the no of beds will be calculated @ 1bed/100 sqm of gross floor area for hospitals and for nursing homes @ 1bed/60 sqm of gross floor area as per FAR.</p> <p>(ii)Hospital norms will be applicable IF Charges the total area of the plot is equal to or more than 2500 sqm. Nursing home norms will be applicable IF Charges total area of plot upto 2500 sqm .</p> <p>(iii) Additional occupancy load has to be taken at 1 P/0.6 sqm for the given area of auditorium &amp; conference hall and @ 1P/1.5 sqm mutipurpose hall. Potable water demand for such occupancy will be considered @15 LPCD.</p> <p>(iv) OPD load at,1 P/1.5 Sqm of the area or earmarked for OPD section or 20 persons per bed whichever is higher will be considered and water demand (potable) will be 15 lpcd.</p> <p>(v)Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy.</p> <p>(vi) IF Charges will be calculated on potable water requirement only in case total water demnad is more than 12500 lpd</p>
9		C-2	Custodial Institutions	1 Bed /7.5 Sqm	135 LPCD per bed	90 lpcd per bed	45 lpcd per bed	<p>(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for the given area of auditorium &amp; conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand for such occupancy will be considered @15 LPD.</p> <p>(ii) Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy.</p> <p>(iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd</p>

10		C-3	Penal and Mental institutions	1 Bed /7.5 Sqm	135 LPCD per bed	90 lpcd per bed	45 lpcd per bed	(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPD. (ii) Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy. (iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd
<b>GROUP D</b>								
11	<b>Assembly</b> (These shall include any building or part of a building where number of persons not less than 50 congregate or gather for amusement, recreation, social, religious, patriotic, civil, travel and similar purposes, for example, theatres, motion picture houses, assembly halls, auditoria, exhibition halls, museums, skating rinks, gymnasiums,	D-1 & D2	Buildings having a theatrical or motion picture or any other stage and fixed seats for over 1000 persons	1P/0.6 Sqm for fixed / loose seats	15 LPCD	15 lpcd	Nil	(i) Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy. (ii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd (iii) Balance shall be met through non potable water for which necessary arrangement shall be made by the applicant on their own.
12		D-3	Buildings without a permanent stage having accommodation for 300 or more persons but no permanent seating arrangement.	1P/1.5 Sqm	15 LPCD	15 lpcd	Nil	
13		D-4	Buildings without a permanent stage having accommodation for less than 300 persons with no permanent seating arrangement.	1P/1.5 Sqm for without seating	15 LPCD	15 lpcd	Nil	

	restaurants, places of worship, dance halls, club rooms, passenger stations and terminals of air, surface and marine public transportation services, recreation piers and stadia, etc.	D-5	All & Other structures including tempormy structures designed for assembly of people not covered by sub-divisions D-1 to D-4, at ground level.	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD	15 lpcd	Nil	
		D-6	Buildings having mixed occupancies providing facilities such as shopping, cinema theatres.	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD	15 lpcd	Nil	
			Restaurants/Canteen/Pantry	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	70 LPCD	15 lpcd	55 lpcd	
		D-7	All other structures, elevated or underground, for assembly of people not covered by sub-divisions D-1 to D-6.	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD	15 lpcd	Nil	
14	<b>GROUP-E</b>	E-1	Offices, banks, professional establishments like offices of architects, engineers doctors, lawyers and police stations; private clinics without IPD/Without bed facilities, Beauty parlour/saloons	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for the given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD. (ii) Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy. (iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd
			Court Room/ SDM Office/ RTO/ any other similar public utility building	1P / 1.5 Sqm	15 LPCD	15 lpcd	Nil	
15		E-2	Laboratories, research establishments, libraries and test house;	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	
16		E-3	Computer installation	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	
17		E-4	Telephone exchange;	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	

18		E-5	Broadcasting stations and TV stations;	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	
	<b>GROUP F</b>							
19	Merchandise	F-1	Any building or part of a building, which is used as shops, stores departmental stores markets	1P/4.5 Sqm of total floor area	45 LPCD	15 lpcd	30 lpcd	<p>(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for the given area of auditorium &amp; conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD.</p> <p>(ii) Additional 5% of total calculated water demand shall be considered for floating /contingency occupancy.</p> <p>(iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd</p>
21			Underground shoping centers, storage and service facilities incidental to the sale of merchandise and located in the same building shall be included under this group.	1P/4.5 Sqm of total floor area	45 LPCD	15 lpcd	30 lpcd	
	<b>GROUP G</b>							
22	Industrial	G	Any building or part of a building or structure, in which products or materials of all kinds and properties are fabricated, assembled, manufactured or processed; for eg. Assembly plants, industrial laboratorories, dry cleaning plants, power plants, generating units, pumping stations, fumigation chambers, laundries, buildings or structures in gas plant, refineries, dairies and saw mills etc.	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	<p>(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for given area of auditorium &amp; conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD.</p> <p>(ii)Additional 5% of total demand shall be considered for contingency/floating occupancy.</p> <p>(iii) IF Charges will be calucated on potable water requiremnt only, in case total water demand is more than 12,500 lpd</p>

	GROUP H							
23	Storage	H	(A) Any building or part of a building used primarily for the storage or sheltering (including servicing, processing or repairs incidental to storage) of goods ware or merchandise vehicles or animals; for eg.,ware houses,cold storage freight depots,Electric Sub Stations/ Electric distribution grids.	1P/30 sqm	45 LPCD	15 lpcd	30 lpcd	(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD. (ii)Additional 5% of total demand shall be considered for contigency/floating occupancy . (iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd
			(b) Approved Multilevel Parkings	1P/30 Sqm	15 LPCD	15 lpcd	Nil	(i) Additional occupancy load has to be taken at 1 P/0.6 sqm for the given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD. For arealike offices etcother than parking area the calculation will be made as per land use/utility . (ii) Additional 5% of total demand shall be considered for contigency/floating occupancy. (iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd
			(c) Cremation Ground/Burial Ground	1P/30 Sqm (depending on plot area)	15 lpcd	15 lpcd	Nil	(i) Plot area will be considered for occupancy . (ii) Additional 5% of total demand shall be considered for contigency/floating occupancy. (iii) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd

			(d) Golf Course/Sports Complex	1P/30 Sqm(depending on plot area)	45 Lpcd	15 Lpcd	30 Lpcd	(i) Plot area will be considered for occupancy . (ii) Additional load has to be taken at 1 P/0.6 Sqm for given area of restraurants, auditorium, conference hall and @1P/1.5 Sqm in case of mutipurpose hall and water requirement @15 Lpcd for potable water only. (iii) Additional 5% of total demand shall be considered for contigency/floating occupancy. (iv) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd
	<b>GROUP J</b>					15 lpcd	30 lpcd	
24	Hazardous	J	Any building or part of a building, which is used for storage, handling, manufacture or processing of highly combustible or explosive materials or products which are liable to burn with extreme rapidity and (or) which may produce poisonous fumes or explosions on storage/handling, manufacturing or processing.	1P/10 Sqm	45 LPCD	15 lpcd	30 lpcd	(i) Additional occupancy load has to be taken at 1 P/0.6 sqmfor given area of auditorium & conference hall and @ 1P/1.5 sqm for mutipurpose hall. Potable water demand will be considered @15 LPCD. (ii)Additional 5% of total demand shall be considered for contigency/floating occupancy. (iv) IF Charges will be calculated on potable water requiremnt only, in case total water demand is more than 12,500 lpd

**Notes:**

1. In case of extreme exigencies which is applicable for Govt. schools only, min 600 students/shcool for primary shools & 1000 students per shcool for secondary/senior secondary schools plus 5% for contigency/floating population will be considered. Extreme exigencies cases in planning cell shall require approval from CE(Plg)W.
2. Any other norms which are not covered above shall be got approved from CE(Plg)Water.
3. No separate water connection for basement will be sanctioned.
4. The area mentioned in the norms means floor area /covered area unless it is specified.

**EE(Plg)W-I**