OFFICE OF THE FECUTIVE ENGINEER (PLANNING) WATER-I DELIZI JAL BOARD: GOVT OF NCT. OF DELHI ****CUNALYA PHASE-I, KAROL BAGH, NEW DELHI

No: DJB/EE(Plg)W-I/2015/772

Dated: 24/8/15

CIRCULAR

Sub: Estimation of average daily water demand for approval of Bulk Water Supply Schemes in Planning Cell.

In continuation to the circular No. DJB/SE(P)W/F-9/circular/2014/1943 dated 07.11.2014, average daily water demand for the approval of water supply schemes in Planning Cell and levy of IF charges will be as per enclosed norms for occupancy loads.

These norms are to be followed uniformly in DJB.

This circular is being issued with the approval of Member (Water Supply).

Enclosure: as above

EE(Plg)W-I

Copy to:

- 1. Secretary to CEO
- Member(A)/Member(F)/Member(Dr)/Member(W)CVO/Secretary, DJB
- 3. All CE(C)Maintenance zones.
- 4. Director (A&P)/Director (F&A)/DOR.
- 5. All SEs Civil Maintenance Zones/Jt. Director(R)
- 6. Consultant (PR)/All EEs (Civil)Maintenance Zone/All ZROs
- Page>Circular>Planning Water.

8. Office Copy/F-6.

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S.No		ТҮР	ES OF BUILDINGS	Occupancy lo	ad	Occupancy load to be adopted in the department for sanction of Water supply schemes		
	GROUP A			As per IS 1172 (Water requirement is based on sanitation Facilities)	NBC/DUAC (Draft)			
1		A-1	Lodging or Rooming houses	9 m2 floor area is occupied by not more than two persons.	1P/12 5 Sqm	1P/bed	135 LPCD	
2		A-2	One or two family private dwellings	5P/DU as per clause 1.2 of IS 1172	1P/12 5 Sqm	5P/DU	225/135 LPCD	
3		A-3	Dormitories	9 m2 floor area is occupied by not more than two persons.	1P/12.5 Sqm	1P/Bed	135 LPCD	
4	Residential	A-4	Apartment houses (flats)	9 m2 floor area is occupied by not more than two persons.	1P/12 5 Sqm	5P/DU	225/135 LPCD	
5		A-5	Hotels	9 m2 floor area is occupied by not more than two persons.	1P/12.5 Sqm	Per Bed	180 LPCD	
6		A-6	Hotels (Starred)	9 m2 floor area is occupied by not more than two persons.	1P/12.5 Sqm	Per Bed	320 LPCD	
						Note : 135 LPCD for I	IG & FWS and 225	
	GROUP B					LPCD for MIG		

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7		B-1	School upto Primary Level	9 m2 floor area is occupied by not more than two persons.	1P/4 Sqm	Min 25 students/classroom + 10% staff or as submitted by the /applicant (whichever is higher)	45 LPCD
3	Educational	B-2	All others /Senior secondry School/ Training Institutions	9 m2 floor area is occupied by not more than two persons.	1P/4 Sqm	min 40 students/classroom + 10% staff or as submitted by the applicant (whichever is higher)	45 LPCD
	GROUP C						
9		C-1	Hospitals and Sanatoria	9 m2 floor area is occupied by not more than two persons.	1P/15 Sq.m	No of bed + OPD	340 LPCD upto 100 beds /450 LPCD above 100 beds+15 LPCd/45 LPCD
.0	Institutional	C-2	Custodial Institutions	9 m2 floor area is occupied by not more than two persons.	1P/1. Sqm	No of Beds+10% for total water demand for staff	135 LPCD
.1		C-3	Penal and Mental institutions	9 m2 floor area is occupied by not more than two persons.	1P/15 Sqm	No of Beds+10% for total water demand for staff	135 LPCD
	GROUP D						

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12	Assembly (These shall include any building or part of a building where number of	D-1	Buildings having a theatrical or motion picture or any other stage and fixed seats for over 1000 persons	9 m2 floor area is occupied by not more than two persons.	1P/0. Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD
13	persons not less than 50 congregate or gather for amusement,	D-2	Buildings having a theatrical or motion picture or any other stage and fixed seats upto 1 000 personss	9 m2 floor area is occupied by not more than two persons.	1P/0.6 Sqm for fixed / Loose seats & 1P/1.5 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD
14	recreation, social, religious, patriotic, civil, travel and similar purposes, for example, theatres, motion picture houses, assembly	D-3	Buildings without a permanent stage having accommodation for 300 or more persons but no permanent seating arrangement.	9 m2 floor area is occupied by not more than two persons.	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD
5	halls, auditoria, exhibition halls, museums, skating rinks, gymnasiums, 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-4	Buildings without a permanent stage having accommodation for less than 300 persons with no permanent seating arrangement.	9 m2 floor area is occupied by not more than two persons.	1P/0.6 Sqm for fixed / Ícose seats & 1P/1.3 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD
		D-5	All & Other structures including tempormy structures designed for assembly ofpeople not covered by sub-divisions D-1 to D-4, at ground level.	9 m2 floor area is occupied by not more than two persons.	1P/0.6 Sqm for fixed / inose seats & 1P/1 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD
		D-6	Buildings having mixed occupancies providing facilities such as shopping, cinema theatres, and restaurants.	9 m2 floor area is occupied by not more than two persons.	1P/0.6 sqm for fixed / loose seats & 1P/1.1 Sqm for without seating	1P/0.6 Sqm for fixed / loose seats & 1P/1.5 Sqm for without seating	15 LPCD

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		D-	All other structures, elevated or underground, for assembly of people r covered by sub-divisions D-1 to D-6.	9 m2 floor area is occupied by not more that two persons.	1P/0.6 Sqm for fixed / loose sea & 1P/1.5 Sqm for without seating	/ loose seats &	15 LPCD
16	GROUP-E	E-1	Offices, banks, professional establishmen like offices of architects, engineers doctor lawyers and police stations;	ts 9 m2 floor area is s, occupied by not more that two persons.		1P/10 Sqm	45 LPCD
17		E-2	Laboratories, research establishment libraries and test house;	9 m2 floor area is occupied by not more that	n 1P/10 Sqm	1P/10 Sqm	
18		E-3	Computer installation	two persons. 9 m2 floor area is occupied by not more than		1P/10 Sqm	45 LPCD
19		E-4	Telephone exchange;	two persons. 9 m2 floor area is occupied by not more than	1P/10 Sqm	1P/10 Sqm	45 LPCD
20		E-5	Broadcasting stations and TV stations;	two persons. 9 m2 floor area is occupied by not more than two persons.	1P/10 3qm	1P/10 Sqm	45 LPCD 45 LPCD
	GROUP F						
21			. Socoqui.	9 m2 floor area is occupied by not more than two persons.	1P/3 Sqm basement and G/Floor OR 1P/6 Sqm upper Floors	IP/3 Sqm basement and G/Floor OR 1P/6 Sqm upper Floors	45 LPCD
2	Mercantile		Any building or part of a building, which is used as shops, stores departmental stores markets, with area more than 500 Sqm.	9 m2 floor area is occupied by not more than two persons.	1P/S Sqm 1 basement and	P/3 Sqm basement and G/Floor OR 1P/6 Sqm upper Floors	45 LPCD

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23		F-3	Underground shoping centers, storage and service facilities incidental to the sale of merchandies and located in the same building shall be included under this group.	9 m2 floor area is occupied by not more than two persons.	1P/3 Sqm basement and G/Floor OR 1P/6' Sqm upt er Floors	1P/3 Sqm basement and G/Floor OR 1P/6 Sqm upper Floors	45 LPCD
	GROUP G						
24	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 labroratories, dry cleaning plants, power plants, generating units, pumping stations, fumigation chambers, laundries, buildings or structures in gas plant, refineries, dairies and saw mills etc.	9 m2 floor area is occupied by not more than two persons.	1P/10 Sqm	1P/10 Sqm	45 LPCD
	GROUP H						
25	Storage	н	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,Electirc Sub Stations/ Electric distribution grids.	9 m2 floor area is occupied by not more than two persons.	1P/30 sqm	1P/30 Sqm	45 LPCD
	GROUP J						

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На	zardous	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.	two persons.	1P/10 Sqm	45 LPCD

- 1. Category and number of DU's will be considered as per the sanctioned plan from the public authorities like DDA,MCD; r any other Government approved public authority for the purpose. In other cases DU having area less minimum as a supplied authority for the purpose. authority for the purpose. In other cases DU having area less than 30 sqm will be considered as EWS/LIG and no of DUs in plots will be one DU per Kitchen subject to a minimum of one per floor.
- 2. For lodging houses /hotels /hotels (starred), number of beds will be considered as specified in the santioned plan by the Public Authorities, where ever it is not specified, two number of beds per room shall be considered. specified , two number of beds per room shall be considered. Additional 10% of total demand shall be considered for staff of the santioned plan by the rushing population.
- 3. For dormatries/orphanages if no of beds are not specified then these shall be worked out @ 1 bed/7.5 sqm. Additional 10% of total demand shall be considered for staff/ Floating population etc.
- 4. In case of sanctioned building plan of hospitals, Nursing homes etc.in catagory will be a number of beds shall be considered as specified in the sanctioned plan. Where ever it is not specified in the sanctioned plan, the no of beds will be as ner FAR. it is not specified in the sanctioned plan, the no of beds will be calculated @ 1bed/1000 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals and for nursing homes @ 1bed/60 sqm of gross area for hospitals area.
- 5. For health institutions like clinics which do not have IPD facilities /beds the minimum occupancy load shall be worked out at 1P/15 sqmbut not less than specified by the applicants and water requirement will be considered as 45.
- the applicants and water requirement will be considered as 45 LPCD. Additional 10 % of total water demand will be considered for staff. 6. In case number of students /classrooms not povided ,1P/4 Sqm of permissible area specified in above table.
- 7. For all buildings, bifurcation of demand into potable and non potable shall be done > 5 per DJB resolution No 1816 dates 20.06.2009. (Copy Enclosed)

 8. Water demand for confrence bells.
- 8. Water demand for confrence halls, auditorium in Hotels /Hospitals / nursing homes shall be worked out for occupancy loads as per part IV (Fire & Life safety) of National Building code of India and will be included in
- 9. For classification of buildings, provisions in Part IV of NBC (fire & Life Safety) will be referred and for any variation, prior approval of CE(PI)W will be required. Copy of relevant extracts of NBC are enclosed.
- 10. In case of extreme exigencies which is applicable for Govt. schools only, min 600 steeper secondary/seneor secondary schools plus 10% staff will be constant to the contract of the contraction of the contract of the con secondary/seneor secondary schools plus 10% staff will be considered. Extreme exigence exigence exigence approval from CE(PL)W.