



DELHI JAL BOARD : GOVT. OF N.C.T. OF DELHI
OFFICE OF THE ASSISTANT EXECUTIVE ENGINEER (M)-36,
COMMAND TANK-1, S SEC-7, DDA SFS FLATS
DWARKA, NEW DELHI-110075.



NO. DJB/AEE(M)-36/2022/ 558

Date :- 04-8-2022

To,

✓ Mr. Vipul Jindal and Others
Office at Kh. No-77, Ground Floor, Opposite
Radha Krishna Mandir Main Road, Samalkha
New Delhi-110037

Subject: - Regarding of Delhi Jal Board Water & Sewer NOC for proposed building at plot in Khasra no. 112/2 (5-9), Extended Lal Dora Abarli of Village-Dhoolsiras Firni Road, tehsil Dwarka New Delhi. (OBPS ID No. 10104543 (Rejection Re-apply version))

With respect to above, NOC is hereby approved subject to following:-

1. Applicant has deposited Infrastructure fund charges calculated by Delhi Jal Board planning wing for water comes out to Rs.1,16,63,450/- only vide DJB/EE(Plg.)W-I/2022/281-288 dated 26.07.2022 and for sewer comes out to Rs.69,98,428/- only vide letter no. EE (Plg) Dr. vide letter No.DJB/EE (Plg.)Dr./2022/742-749 dated 26.07.2022. The amount is deposited with Delhi Jal Board through NEFT/RTGS in Union Bank of India, Karol Bagh Branch, CBCA01000643, Account No. 510101006106802, IFSC Code-UBIN0902641 directly within timeline under intimation to this office.
2. At present, There is no water line in front of the proposed building and the internal water supply network inside the village is not only far of but not able to provide water to the proposed building. The DJB will not be bound to provide water supply to the proposed building. Therefore the entire arrangement of potable water and entire non potable water demand shall be made by applicant/owner/builder/developer at their own including at their own cost.
3. Water demand assessment and sewerage demand assessment worked out by DJB Planning wing. Developer/builder has to comply with the general and special conditions of Planning Water Wing and Planning Sewer (drainage wing) attached herewith.
4. Applicant has to deposit the required charges including, fees, rentals, development charges, proportionate charges, central storage charges and infrastructure charges, additional infrastructure charges etc in accordance to the provisions in Delhi Jal Board Act 1998 and Delhi Water & Sewer(Tariff and Metering) regulation 2012 as amended from time to time and applicable at the time of sanction of water/sewer connection/additional water/sewer connection/increase in existing water/sewer connection.
5. No potable water shall be used in construction activities.
6. All dues in respect of Delhi Jal Board have to be cleared by the applicant/ developer/builder before seeking sanction of the water and sewer bulk connections.
7. The applicant /developer/builder has to construct RWH structures and recycle waste water treatment plant.
8. Applicant/owner/builder/developer will be solely and absolutely responsible to ensure all safety and precautionary measures for the safety of workers and machineries in respect of execution/operation and maintenance/cleaning of water and sewerage services (UGR/BPS, sewer lines, manholes, WWTP/Recycle WWTP etc.) to avoid any untoward incident/inishap/accident.
9. All necessary permissions for road cutting for connecting the sewerage of the building into the DJB sewerage network has to be obtained by Applicant/owner/builder/developer at his own and at his own cost after obtaining sanction of sewer connection from DJB after completion of building.
10. Building plan sanctioning authority may also examine the permissibility of the proposed building on this plot before sanction of building plan.

(S.K. Sharma)
AEE (M)-36

28

DELHI JAL BOARD
OFFICE OF THE EX. ENGINEER (PLANNING)W-III
DELHI JAL BOARD;GOVT OF NCT DELHI
VARUNLAYA PHASE-I, KAROL BAGH,NEW DELHI 110005
E-Mail ID :eeplwiii@gmail.com

No: DJB/EE(Plg)W-III/2022/ 281

Date: 26 -07-2022

Subject: Assessment of water demand and calculation of Infrastructure Charges for Proposed Design of Consulate Apartments at plot in Khasra no. 112/2(5-9), Extended Lal Dora Abadi of village - Dhoolsiras Firni Road, Tehsil Dwarka, New Delhi.

Office of EE (M)-36
Diary No. 1179
Date 30-7-22

OBPS ID NO. 10104543(re-applied).

Please refer to above cited OBPS application subject, for the proposed building i.e. **Group Housing**, total water demand has been assessed to **1,31,385** LPD out of which potable water demand is **98,095** LPD and non potable water demand is **33,290** LPD as per prevalent norms of DJB. According to revised IFC levy policy Circulated from the office of DOR, DJB, dated 06.10.2020, and the drawings and data/ details of measurements available with this OBPS application, IFC for water for the proposed building has been assessed to **Rs. 1,16,63,450/-Only.**

Sanction of water connection and levy of fees, charges, rentals, development charges, proportionate charges/central storages charges/Infrastructure charges/ additional Infrastructure charges etc. for the existing water connection(s), if any, would be in accordance to the provisions in Delhi Jal Board Act 1998 and Delhi Water & Sewer (Tariff and metering) regulations 2012 as amended from time to time and applicable at the time of sanction of additional water connection. Increase in the size of existing water connection as the case may be. Category **G** has been considered for calculation of IFC for this area. Suitable adjustment in IFC, if already deposited by the applicant will be made by the concerned maintenance division.

Please note:-

- Concern maintenance division should ensure the deposition of all applicable charges/ fee.
 - Infrastructure fund charges already deposited, if any, shall not be refunded.
 - Special conditions and general conditions are also enclosed.
- Please take further necessary action in this matter at your end. Issued with the approval of the competent authority.

Encl:- As above


26/7
EE (Planning)W-III

AEE(M)-36
Delhi Jal Board,
Near Dwarka Wtp,
Kakrola Road, New Delhi-110075.

DELHI JAL BOARD, DELHI SARKAR
OFFICE OF THE EX. ENGINEER (PLANNING)W-III
KAROL BAGH, PHASE-I, NEW DELHI-110005.
Email ID: eeplwiii@gmail.com

GENERAL CONDITIONS (WATER)

1. The pipes used in the distribution system shall conform to ISI specifications. For water pipes, C.I. pipes shall be of class L.A. and D.I. pipes shall be of class K-7 K-9 having rubber ring push joints. Except where stated otherwise, the latest Indian standard codes of practices with up to date revisions shall be adopted for laying water pipes, construction of underground reservoirs and for internal fittings in buildings.
2. Pipes shall be laid with the minimum cushion of 0.60 m under the berms and 1.00 m under the roads.
3. Special care should be taken to ensure an adequate horizontal & vertical separation between water & sewer pipes. As far as practicable, the lateral separation should be at least 3 meters & vertical separation should be at least half meters. A water main should not be laid or passed through the manhole of sewer pipe line and without housing pipe through open sullage/storm water drains.
4. All water distribution mains shall be tested at twice the maximum working pressure of pipes. All joints should be absolutely water tight under the test.
5. MDPE (Medium Density Polyethylene) pipes conforming to I.S. specification shall be used for individual water connections.
6. Sluice valves used shall be I.S.I marked or of reputed firms like Kilburn, Kirloskar, William Jacks and Indian Valve Co. etc. Sluice valves will be provided for regulation of water supply system as per requirement.
7. Proper indicating plates shall be provided at prominent places to indicate the location of Sluice Valves, fire hydrants etc.
8. The fire hydrant shall conform to I.S. 905-1975 with up to date revisions.
9. Plumbing of each D.U. shall be so carried out such that separate ferrule connections can be provided from the distribution water line.
10. Plumbing work shall be carried out as per National Building Code and Building Bye Laws as applicable to high rise Buildings.
11. The domestic water tank should not be connected with the static water tank meant for firefighting storage or gardening.
12. The underground reservoirs & B.P.S shall not be located in the mandatory tot lot areas, as per directives of D.U.A.C./DDA.
13. The Developing Agency shall intimate to the concerned Executive Engineer (Maintenance) regarding the actual date of start of laying and jointing of water mains at site and will have the work inspected at the time of connection with peripheral main.
14. The developing agency shall connect their internal distribution system with DJB water main at their own cost after getting the approval from this department in presence of the concerned Executive Engineer.
15. Till drinking water made available by DJB the developing agency shall maintain interim arrangements & shall also not claim drinking water supply from DJB. during the intervening period. When the drinking water is made available by DJB the developing agency will apply to this office for approval of water connection. The Developing Agency/beneficiaries shall connect their water distribution system to the water main at their own cost and after deposition of required charges in the zonal office, completing necessary formalities with the concerned EE.
16. At the time of handing over the services, if needed the developing agency shall be required to handover the underground reservoir, tube well, pumping sets, etc. in good running conditions, free of charge.
17. The fire hydrants should be provided preferably on 150mm dia or above water main proposed in the water supply scheme. The fire hydrants are to be provided preferably on the water main

- proposed along main roads as it will facilitate movement of fire fighting equipments. Fire hydrants should be located at distance of 150 meter centre to centre in the Distribution system in such a way that a fire hydrant is available within a distance of 75 meter anywhere in the system.
18. The fire fighting arrangements including position of fire hydrants shall also be got Approved from Chief Fire Officer, Delhi and one copy of the approval letter be sent to this office. These should invariably be installed near the proposed markets, institution, social & religious places and in and around residential areas.
 19. In case there is any change in the category for House Tax by the Delhi Municipal Corporations concerned, then accordingly IFC for the same would be applicable.
 20. The department reserves the right to delete, add, or charge any of the conditions of approval of this proposal.
 21. In case of any contradiction, the conditions in the special conditions shall prevail over general conditions.


EE (Planning) W-III

VI-11/18/P
Hauli
Hotel

DELHI JAL BOARD
OFFICE OF THE EX. ENGINEER (PLANNING)W-III
DELHI JAL BOARD;GOVT OF NCT. OF DELHI
VARUNALAYA PHASE-I,KAROL BAGH, NEW DELHI-110005.
Email ID: eeplwiii@gmail.com

Special Conditions (Water)

Subject :- Assessment of water demand and calculation of Infrastructure Charges for Proposed Design of Consulate Apartments at plot in Khasra no. 112/2(5-9), Extended Lal Dora Abadi of village - Dhoolsiras Firni Road, Tehsil Dwarka, New Delhi.

OBPS ID NO. 10104543.

Based on the plans submitted by applicant through Online Building Plan Sanction Portal, the IFC and water demand has been assessed.

1. IFC has been calculated on the basis of built up areas of the properties in square feet and rates in different categories of colonies as per circular no DJB/DOR /Infra. Charges/2020/4957 to 5063 dated 06.10.2020 & DJB/DOR /Infra. Charges/2020-21/3714 to 3824 dated 11.05.2021 & DJB/DOR/10/Infra. Charges/2022/4979 to 5166 dated 11.04.2022 issued by Director (Revenue).

Applicant has to deposit the amount of ₹ 1,16,63,450/- only, towards the cost of Infrastructure Charges (IFC) for water. If there is any change in built up area and category of house tax on any account, accordingly IFC will be reworked on prevailing rates by concerned maintenance divisions and applicant will be liable to pay the difference.

2. Total water requirement of the premises has been assessed to 131395 LPD out of which the potable water requirement is 98,095 LPD and non-potable water requirement is 33,290 LPD.
3. DJB shall provide water for potable requirements subjected to the technical feasibility exist. Non-potable water requirement shall be met through the use of recycled water having quality standards as per CPHEEO guidelines by the applicant at his own end.

Quality Standards for Recycled Water

	Parameter	Toilet flushing	Horticulture Use
1	Turbidity(NTU)	<2	<2
2	SS	nil	Nil
3	TDS	2100	
4	Ph	6.5 to 8.3	
5	Temperature ⁰ C	Ambient	
6	Oil & Grease	10	10

7	Minimum Residual Chlorine	1	1
8	Total Kjeldahi Nitrogen as N	10	10
9	BOD	10	10
10	COD	AA	AA
11	Dissolved Phosphorous as P	1	2
12	Nitrate Nitrogen as N	10	10
13	Faecal Coliform in 100 ml	Nil	Nil
14	Helminthic Eggs/litre	AA	AA
15	Colour	Colourless	Colourless
16	Odour	Aseptic which means not septic and no foul odour	

- The applicant/Developing agency has to make its own arrangements for treatment to achieve quality standards for the recycled water and is permitted to use the same for flushing purposes/Horticulture uses. Necessary arrangements shall be made by the applicant/developing agency for the purpose.
- In case of acute shortage of filtered water in the area and where it may not be possible to provide water, individual Plot holder shall make their own arrangements to provide potable quality of water to meet interim water requirements till filtered water can be made available by DJB. The required permission from CGWA/ CGWB, MCD, DDA or any other agency if any, for making interim water arrangement, shall be taken by developing agency/applicant. DJB shall not be responsible for the same.
- A suitable dia bulk water meter shall be installed by the applicant/developing agency at the suitable location in consultation with the concerned **Assistant Executive Engineer (Maintenance)** i.e. AEE(M)-36 at its own cost. The connection and the communication pipe shall also be laid by the applicant/developing agency at their own cost in consultation with the Maintenance staff.
- Sanction of the water connection shall be in accordance to provisions in Delhi Water and Sewer (Tariff and Metering) Regulations 2012 and notifications of DJB from time to time in respect of provisions for water supply i/c conditions contained in the release letter.
- Development plan/Approved Building floor plans submitted by the applicant shall be verified at the time of sanction of bulk water connection by the concerned Zonal Authorities of DJB. In case of variation/ deviation found in the constructed building from the plans submitted by the applicant at the time of sanction of water supply scheme or in OBPS, then in such case IFC shall be re-assessed by concerned maintenance division.
- Deposition of Infrastructure charges will not entitle the applicant/developing agency for immediate water connection by the DJB. Water connection will be sanctioned by concerned Executive Engineer (Maintenance) as per available feasibility of DJB water in the area.
- The regulation of quality of Treated Effluent, its Standard, Operation and Maintenance of the recycling plant/BPS/water supply network will be as per the guidelines/instructions of the Authority concerned and Applicant/Developing Agency of the project will be solely responsible

- for implementation of all such guidelines prescribed by the concerned Authority dealing with such regulations. Delhi Jal Board in any manner shall not be responsible for the violation of the regulations. The construction/design/operation and maintenance of the recycling plant/BPS/water supply network is the sole responsibility of the Applicant /Developing Agency of the project.
11. The guidelines as of CPHEEO manual (of Department of Housing and Poverty Alleviation. Relevant BIS codes, CPWD specifications and other standards and statutory provisions relevant to water supply network would be binding on the Proponent/Developing Agency of the project. Internal water supply network including recycling plant arrangement shall be done & maintained by applicant/developing agency as per the sound engineering practices and relevant prescribed standards.
 12. Sluice valves will be provided for regulation of water supply system as per the requirements. These shall conform to IS: 2685-1971. A clear space of about 200 mm should be kept between the top of the sluice valve spindle and surface box so that valve cap may be easily provided, when the surface box is kept in flush with road level.
 13. Water harvesting through storing of runoff water including rain water in all new building on plots of 100 sq. meters. & above shall be mandatory. The plans submitted to the local bodies shall indicate the system of storm water drainage along with points of collection of the water in surface reservoirs or in recharge wells. These provisions will be applicable as per the Public Notice (s) of Central Ground Water Authority issued from time to time.
As per the modular designs of recharge Chambers for roof top Rain Water Harvesting available on DJB website, a retention capacity of 2 m³ is required for 100 m² of roof top area. For more details office of EE (RWH), DJB and website of DJB is to be referred.
 14. All buildings having a minimum discharge of 10,000 liters per day and above or water demand of 12.5 KLPD and above shall incorporate waste water re-cycling system. The recycled water shall be used for horticultural & flushing purposes.
 15. An underground reservoir of required capacity shall have its top water level (T.W.L.) below the ground level but top of underground reservoir should be at least 30 cm. above the normal G.L.
 16. The feeder mains from approved peripheral water supply scheme to proposed underground tank for potable water shall be designed at the time of making connections as per availability of water by the concerned Executive Engineer (Maintenance).
 17. Sanction of water connection/ additional water connection/ increase in existing water connection and levy of fees, charges, rentals, development charges, proportionate charges/ central storages charges/ Infrastructure charges / additional Infrastructure charges etc. would be in accordance to the provisions in Delhi Jal Board Act 1998 and Delhi Water & Sewer (Tariff and metering) regulations 2012 as amended from time to time and applicable at the time of sanction of water connection/ additional water connection/ increase in the size of existing water connection.
 18. Hon'ble NGT, Principal Bench, New Delhi, vide his orders in the case of O.A. 72/2014, the applicant / Developing Agency shall construct adequate capacity of rain water harvesting system as part of the project.


EE (Planning) W-III



OFFICE OF THE EXECUTIVE ENGINEER (PLANNING) DELHI JAL BOARD: GOVT. OF N.C.T. OF DELHI
VARUNALAYA PHASE-I, JHANDEWALAN, DELHI -110055
E-mail:- eeedr100@gmail.com

STOP CORONA;
"Maintain Hand Hygiene, Wear Mask, Follow Physical Distancing,"

No.DJB/EE(Plg)DR/2022/ 742-749

Dated 26-07-22

Subject: Calculation of Sewage Discharge and Infrastructure Fund Charges for Proposed Design of Consulate Apartments at plot in Khasra no. 112/2(5-9), Extended Lal Dora Abadi of village - Dhoolsiras Firni Road, Tehsil Dwarka, New Delhi.

OBPS ID No. 10104543(Rejection Reapply)

The total average daily sewage discharge for this proposed scheme has been calculated as 131385 LPD. IFC amounting to Rs 69,98,428/- is applicable & IFC has been calculated on the basis of built up areas of the properties in square feet and rates in different categories of colonies (Category 'G' in this case) as per circular no DJB/DOR /Infra. Charges/2020/4957 to 5063 dated 06.10.2020 & 5673 to 5818 dated 04.11.2020 & circular of revised rates of no DJB/DOR /Infra. Charges/2022/4979 to 5166 dated 11.04.2022 issued by Director (Revenue).

Sanction of sewer connection and levy of fees, charges, rentals, development charges, Infrastructure charges etc, would be in accordance to the provisions in Delhi Jal Board Act 1998 and Delhi Water & Sewer (Tariff and metering) Regulations 2012 as amended from time to time and applicable at the time of sanction of sewer connection.

Please note:-

- 1 Concerned maintenance division should ensure the deposition of all applicable charges/fee.
- 2 Special and General conditions are also enclosed.

Please take further necessary action in the matter.

Encl: As Above

AEE(M)-36

Sd/-
EE(Plg)DR

Copy to:

1. CE(P&D) - for kind information please.
2. ACE(M)-9 - with the request to take necessary action in the matter
3. ACE(M)-6 - with the request to take necessary action in the matter.
4. ACE(Plg)DR - for kind information please.
5. ACE(Plg)W - for kind information please.
6. Jt. Dir. (Revenue) HQ- for kind information please.
7. Office copy

[Signature]
26/7/22
EE(Plg)DR

Subject: Calculation of Sewage Discharge and Infrastructure Fund Charges for Proposed Design of Consulate Apartments at plot in Khasra no. 112/2(5-9), Extended Lal Dora Abadi of village - Dhoolsiras Firni Road, Tehsil Dwarka, New Delhi.


OBPS ID No. 10104543(Rejection Reapply)

Special conditions (Drainage)

Based on the building plan submitted by applicant through online in (OBPS) the IFC has been assessed is as under.

1. The total average daily sewage discharge for this proposed scheme has been calculated as 131385 LPD. IFC amounting to Rs 69,98,428/- is applicable & IFC has been calculated on the basis of built up areas of the properties in square feet and rates in different categories of colonies as per circular no DJB/DOR /Infra. Charges/2020/4957 to 5063 dated 06.10.2020 & 5673 to 5818 dated 04.11.2020 & circular of revised rates of No. DJB/DOR /Infra. Charges/2022/4979 to 5166 dated 11.04.2022 issued by Director (Revenue).
2. In case of any change in the built up area later on accordingly IFC will be reworked out on prevailing rates by concerned maintenance division and applicant is liable to pay the difference. No additional discharge for the above proposed addition / alteration will be allowed. Also, The Rates of IFC at the time of deposition will be applicable.
3. No addition in the building(s) development is to be taken up without prior approval of DJB. If any addition/alteration is made in the proposed plan in future, the applicant will submit the revised plan/scheme to DJB for revision of sewage discharge
4. The Proponent /Developing Agency will provide its own arrangement for collection of the sewage generated, its treatment and the disposal of the same till the peripheral/trunk sewer system is made available by Delhi Jal Board. The STP and septic tank or any other arrangement will be provided by the Proponent /Developing Agency strictly as per the provisions of latest building Bye-laws, CPHEEO guidelines, all IS Codes and as per the guidelines of Central/State Environment Department /CPCB/DPCC as applicable.
5. The sewerage scheme being approved by DJB are based on approved layout plan/approved building plans forwarded by the developing agencies like DDA, MCD and any other local authorities having statutory powers to do so.
6. The sewage for Hospital/Hotel/workshop shall have to be treated as per the requirement of latest building Bye-laws and guidelines of CPHEEO manual and relevant IS codes before releasing into DJB network.
7. The operation and maintenance of the sewerage system inside the premises/individual campus upto the connection point from the DJB sewer line would be with the Proponent/Developing Agency/Occupier. DJB shall not be liable /responsible for any mishap/untoward incident inside such campus/premises.

- g. The allocation /allotment/marketing of the spaces for construction of STP /sewage pumps house/ any other ancillary activities for the purpose /purposes of development work of sewerage system is not being suggested/advised by DJB as this is the responsibility of the layout plan/building plan approving authority. All such activities would be based on the approved layout /building plans under the provision of latest building bye-laws applicable in the Govt. of NCT of Delhi.
9. Environment clearance as applicable under the provisions of latest building Bye-laws and statutory provisions should be acquired by the Proponent/Developing Agency of the project from the appropriate authority /authorities like Central/State Environment Department/CPCB/DPCC etc. whichever is /are applicable.
10. The regulation of quality of Treated Effluent, its Standard, Operation and Maintenance of the STP/SPS/Sewerage system will be as per the guidelines/instructions of the Authority concerned and Proponent/Developing Agency of the project will be solely responsible for implementation of all such guidelines prescribed by the concerned Authority dealing with such regulations. Delhi Jal Board in any manner shall not be responsible for the violation of the regulations.
11. The construction/design/operation and maintenance of the STP/SPS /Sewerage system is the sole responsibility of the the Proponent /Developing Agency of the project.
12. The guidelines as of CPHEEO manual (of Department of Housing and Poverty Alleviation), relevant BIS codes, CPWD specifications and other standards and statutory provisions relevant to sewerage system would be binding on the Proponent /Developing Agency of the project.
13. Any building having up to the consumption of water 12500 litre per day and above subsequent generation of 10,000 litre per day and above of sewage will make a provision of a recycling system of waste water for Horticulture and other non drinking purposes as per the provision of latest building Bye- laws and CPHEEO (Department of Housing and Poverty Alleviation, Govt. of India. The responsibility of operation and maintenance of STP/SPS etc. will lie with the proponent /Developing Agency/Occupier only. If a recycling plant (Waste Water Treatment Plant) is provided in the premises and bypass of sewage is observed into DJB sewerage system without prior intimation, penalty will be levied as per prevailing policy of DJB for their lapses from the proponent/ developing agency/occupier.
14. Onus of integrating sewer connection with the existing internal/peripheral/trunk sewer of DJB either by gravity or through a pumping main in consultation with the Zonal authorities lies with the proponent/ developing agency/occupier. The applicant is advised to connect the sewer out fall of the premises, with DJB internal/peripheral/trunk line with the permission of concerned EE(Maintenance), in order to eliminating the possibility of any back flow, in case of any surcharge of internal/peripheral/trunk line, under unavoidable circumstances.


 EE(Pig) DR

Subject: Calculation of Sewage Discharge and Infrastructure Fund Charges for Proposed Design of Consulate Apartments at plot in Khasra no. 112/2(5-9), Extended Lal Dora Abadi of village - Dhoolsiras Firni Road, Tehsil Dwarka, New Delhi.

OBPS ID No.10104543

GENERAL CONDITIONS (Drainage)

GENERAL: -

1. The concerned EE Maintenance shall be kept informed from the very start of the work and at every stage during the progress so that the inspection could be arranged. The sanctioned plans should be made available at site at the time of inspection.
2. The Colonizer/DDA/Society shall provide all reasonable facilities for the inspection of work during execution.

SEWERAGE: -

1. Distance between manholes shall not exceed 20M centre to centre for sewers up to 400 mm dia 30M for sewers above 400 mm dia and these shall be so spaced that each facilitate discharge in the direction of flow. However the spacing shall not be more than 20M in case of internal sewer.
2. The manhole sizes will be as follows:
 - A. 3'-0" (0.91m) dia circular manholes with heavy covers for depth beyond 3'-0" (0.91m) up to 5'-6" (1.67m).
 - B. 4'-0" (1.22m) dia circular manhole with heavy covers for depths beyond 5'-6" (1.67m) and up to 7'-6" (2.29m).
 - C. 5'-0" (1.52m) dia circular manholes with heavy covers for depths beyond 7'-6" (2.29m) minimum internal dia of manhole shall be dia of pipe+2'-00" (0.61m).
3. All manholes will be plastered both inside and outside with CM(1:4) inside to be finished with floating coat of Neat cement and shall be provided with plastic encapsulated foot rests as per approved specifications of this department in place of C.I foot rests.
4. Extra excavation should be done under the joints for providing joints properly, so that there is no infiltration.
5. Concrete bedding shall be provided as per sewerage manual. Entire work shall be carried out strictly as per CPWD and Municipal specifications whichever is applicable.
6. The minimum size of sewer shall be 250/300mm dia, irrespective at actual peak discharge.
7. When the sewer is to be laid under S.S. Water, 23cm thick stone soling is required under concrete bedding of required thickness under manhole and 15cm thick stone soling under concrete bedding of required thickness under sewer pipes.

- 3
8. In case I.L. of the sewer from a colony is higher by more than 60 cm than the I.L. of municipal sewer at connecting manholes, drop connection shall be provided as per C.P.W.D specification.
 9. Crossing of Nallas etc. shall be done by C.I Pipe.
 10. Heavy duty circular steel fiber reinforced concrete manhole frame and cover, 560 mm internal dia both weighing 182kg. to be tested as per I.S.1726(I) for heavy duty load shall be used.
 11. The manhole covers shall have the following markings: -
 1. Sewer. H.D.
 2. Name of Department.
 3. Year of manufacturing.
 4. BIS/ISI marked.
 12. All corrections made on the plan and design calculations shall be strictly adhered to.
 13. The reference benchmark shall tally with GTS benchmark.
 14. The Owner shall take prior written permission from the concerned ACE(Maint). sewer maintenance of concerned zone for making connection of its sewerage system with peripheral/ trunk sewer.
 15. No storm water drain shall be connected into the sewerage system.
 16. The drop connection shall be provided at all the points where fall is more than 60 cms.


EE(Rlg) DR