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GOVERNMENT OF THE PUNJAB  
HOUSING URBAN DEVELOPMENT &  
PUBLIC HEALTH ENGINEERING DEPARTMENT  
NOTIFICATION  
The 1<sup>st</sup> May 2018

No. MD/434-37 In exercise of the powers conferred by section 45 of the Lahore Development Authority Act, 1975, the Lahore Development Authority is pleased to make the following Regulations:—

**Lahore development Authority (Water and Sanitation Agency) Sewerage and Drainage Amended Regulation 2017**

**PART - I DEFINITIONS**

1. **Short Title-**  
The regulations shall be called the Lahore Development Authority (Water and Sanitation Agency) Sewerage and Drainage Amended Regulations 2017.
2. **Commencement -**  
The regulation shall come into force at once.
3. **Definition -**  
In the regulation unless there is anything contradictory in the Subject to Context:-  
**"Agency"** means the Water and Sanitation Agency established under section 10 (2) of the Lahore Development Authority Act, 1975. WASA is the brief name of the Water and Sanitation Agency.  
**"Drains"** means any drain, channel, gutter or pipes intended to collect, convey or dispose drain water, storm water, seepage water or waste liquid (not being waste liquid, discharged into water borne sanitary installation) and shall include fittings and apparatus such as lavatory basin, bath or sink, the water liquids of which are discharged into any such drain, channel or pipes together with the pipes, connection, traps, gullies all other parts thereof.

"Drain Installation" means any drain, channel, gutter or pipe provided to collect, carry or dispose of rain water, storm water, sewage water or waste water.

"Engineer" means the Engineer in the Water and Sanitation Agency of the Labour Development Authority for the purpose of these regulations and shall include any Officer or official deputed by the engineer to act for him.

"Person" means any person or body of persons whether corporate or incorporate.

"Regulations" means the Labour Development Authority (Water and Sanitation Agency) Sewerage and Drainage Amended Regulation 2017.

"Sewer" means any conduit or pipe provided for the conveyance of the solid or liquid waste of a community otherwise known as sewerage, such as conduit or pipe being the property of or vested with the Agency.

"Sullage or Sullage Water" is the same as sewerage for the purposes of these regulations except that sewerage is called sullage when it flow open or atmosphere.

"User" means any person, institution, organization or concerned who in agreement with the Agency shall be entitled to use the facilities of the sewerage and drainage system in accordance with the terms of such agreement.

"Water Main" means a water pipe or conduit carrying water for public use which is owned and operated by the Agency.

"Water-borne Sanitary Installation" shall mean—

- (i) Any urinal, latrine, water closet, apparatus, slop, sink reinstallation or other similar fitting, the solid or liquid filth from which is intended to be discharged by a flush of water and shall include all manholes, traps, gullies, soil pipe, waste pipes, ventilation pipes and drainage water borne sanitary installation to a public sewer, or to septic tanks or other treatment or disposal works into such drains may lawfully empty.
- (ii) Any septic tanks, absorption pit, or other treatment, disposal works, if provided on the premises or intended to deal with or dispose of the liquid and or solid filth from the said water borne sanitary installation.
- (iii) Any apparatus such as a lavatory basin, bath or sink the waste liquid from which is discharged or intended to be discharged into the pipe or drains of any water-borne

sanitary installation together with the pipes, connections, traps, gullies, drains and all other parts thereof.

- (iv) Any and every addition to, partial construction, reconstruction or installation of a building or any other premises as defined above.

"Effluent" means waste water discharged from point sources which enter into a body of water or upon land, or waste water arising as a byproduct of any use.

"Private Housing Scheme" means a private housing scheme approved by the LDA.

"sewage" means any liquid discharges containing human excreta, animal or vegetable matters in suspension or solution derived from domestic activities and being generated from household, commercial, institutional and industrial premises including liquid discharges from water closets, basins, sinks, bathrooms and other sanitary appliances but excluding rain water and prohibited effluent;

"Sewerage" or "Sewerage System" means a system of collection of waste water from an area including its houses, institutions, industry and public places; the pumping, treatment and disposal of such waste water, effluent, sludge, and other products;

## PART - II APPLICATION AND GENERAL PROVISIONS

### 4. Existing Installations -

Any water borne sanitary or drainage installation transferred to the Agency under the Act and lawfully existing on the date on which these regulation come into force shall be deemed to be made under these regulation and be subject to all for the purpose provisions herein contained.

### 5. Application for Installation

#### (a) Domestic Sewerage and Drainage Service-

- (1) No one shall carry out any water borne sanitary or drainage installation work or make, cause or permit any private connection pipe or sewer to connect directly or indirectly in any new or existing building or in any Agency sewer without first obtaining written permission of the Agency.
- (2) Application (along with required documents) for a new connection shall be submitted on the form specially designed which can be obtained from any sub division office of the Water and Sanitation Agency on payment of the prescribed fee.
- (3) A sewer or drainage connection will only be allowed with the approval of the owner of the property. If ownership with any trust, the connection will only be made with the permission of the trust. Provided that a tenant of such other persons occupying the premises or part of the premises not owned by him apply for a sewer or drainage connection with the approval of the owner but such connection will always be sanctioned in the name of the owner.
- (4) Sewer or drainage connection will not be sanctioned if ownership of property is disputed or in default.

24. **New Sewerage, Drainage and Drainage Structures**

- (a) The person applying for such work shall submit to the Engineer in writing a written application in the form prescribed in the Regulations and such plans and sections as may be required, together with a certificate from the person who gives such notice that he is the owner of the premises to which the work is to be done.
- (b) The work described in the application shall be done in accordance with the plans and sections approved by the Engineer.
- (c) The person who gives such notice shall be liable to a penalty under these regulations if he does not commence the work within the time specified in the notice.

25. **Form of Plans**

The plans shall comply with the specifications within this chapter of plans and sections drawn and submitted to the Engineer in writing in a scale of not less than one inch to eight feet which shall be clearly marked on each drawing which shall show the exact position of the building to be constructed, with which work is to be done, including the position of the existing parts of such buildings which are shown including the roof and the floor, position and type of every door, window, door and step, wall, post, and ventilation pipe of every house, passage, and other structure.

The plans and sections of every house, house, shed, shop, work, factory, school, business house, and other structure shall show the position, type and dimensions of every water tank, place where the water is to be drawn or otherwise work proposed to be done in connection with the building which is shown.

The plans shall also show the position, type of construction and size of all water works, machinery connected to be used in connection with the building. The position of all windows and other openings into the building shall be shown together with the position of all chimneys belonging to the building with a diameter of 20 feet from the apex end of a wall pipe or ventilating pipe.

26. **Connection Requirements**

The connection may not be given unless:

- (a) Adequate sewerage or drainage facilities are provided to the satisfaction of Engineer.
- (b) A written consent of the owner giving his valid Computerized National Identity Card (CNIC) issued by the Government of Pakistan & other required documents is provided.
- (c) The prescribed connection fee has been paid to the Agency.
- (d) For house/property of 12 marlas or more construction of septic tank of approved design is mandatory. Each house/property having total plot area of 1/2 marlas or above should have a septic tank in its premises. The waste water from the house/property will first enter into the septic tank and then from septic tank it will enter into the Agency's sewer (WASA sewer).
- (e) Waste water treatment plant is mandatory for industries releasing toxic effluent in WASA sewers/drains.

27. **Inspection of Premises**

Presentation of the new connection application shall be deemed to authorize the Engineer to enter the premises after reasonable notice and to examine or test the applicants pipes, fitting, gullies, manholes, septic tanks, absorption pit or other disposal or treatment work etc. with which connection is to be made and also for inspection and testing any apparatus belonging to the Agency on the applicants premises.

28. **Approval of Application**

The Engineer shall, within seven days of the deposit of the notice and such plans and sections as may be required, inform in writing the person who gives such notice as to whether such plans and sections are approved or not.

29. **Alteration of Applications**

The Engineer may direct such Person to make any alterations or improvements which appear to be necessary or desirable and the person shall alter the plans and sections accordingly.

30. **Approval to be Cancelled**

If the work described in the application is not commenced within one year from the date of notice of approval of such plans, the approval shall be deemed to be cancelled.

31. **Unlawful Commencement of Work**

- (1) No one without obtaining the consent of the Engineer in writing shall commence any such work before the plans and sections have been approved shall be liable to a penalty under these regulations. The engineer on behalf of the Agency may

discontinue the use of or demolish or otherwise remove any obstruction, private connection pipe drain or sewer.

- (2) No one shall connect any private sewer with the agency's sewer (WASA's sewer) in the absence of WASA staff. Any such work carried out in the absence of WASA's staff will be dealt under Section-12(i).

13. **Plans on Site -**

When the plans and sections have been approved, one copy thereof shall be returned to the applicant and one copy shall be retained by the Engineer. The applicant's copy of the plans shall be kept at the site of the work at all times when the work is in progress and shall be available for the inspection by Engineer.

14. **Emergency Alteration -**

Any person who is about to carry out a minor alteration to a water borne sanitary installation which must be carried out at once, shall, in lieu of depositing the plans, sections and particulars referred to in the foregoing regulations, forthwith send to the Engineer a notice in writing of any such proposed alteration. He shall within fourteen days of the commencement of such alteration, make the deposit required by the regulations.

**PART - III INSTALLATION AND MAINTENANCE OF WATER BORNE SANITARY SERVICES**

15. **Maintenance of Sanitary Installation and Drainage Installations-**

The owner or the occupier of any premises connected to an Agency sewer or drain shall at all times maintain in a clean and sanitary condition and in a proper state of repair and in good working order and conditions the whole of the water borne sanitary installation and drainage installation relating to the said premises. Failure to do shall be an offence under those regulations.

16. **Altered or Defective Installation -**

If any such water borne sanitary or drainage installation in the opinion of the Engineer:-

- (i) is constructed, altered, added to or used otherwise than in accordance with these regulations;
- (ii) is or becomes of bad or defective quality of construction or is choked or obstructed or is placed or situated in a position contrary to these regulations.
- (iii) is required to be removed, altered, extended, cleaned, repaired or disconnected from the sewer or drains of the Agency.
- (iv) is causing damage to the property of the owner or of a neighbour or subjecting property of any kind to deterioration from the said installation, the owner or

occupier of the premises to which the installation belongs, shall upon service on him of notice in writing signed by the Engineer, reconstruct, renew, remove, alter, extend, clear, repair, clear the obstruction or disconnect same from the sewer or drain of the Agency within the time specified in such notice.

17. **Notice to Connect the Sewer or Drain -**

The owner of property may be required to execute any work with such material within such time and in such manners as may be directed by the Engineer to connect the water borne sanitary or drainage installation of the said premises to sewer or drain of the Agency. Failure to comply with these requirements shall be an offence under these regulations.

18. **Level of Lowest Storey -**

Every owner who create a new building shall construct the lowest story of such building at such level as will allow the construction of a drain sufficient for the effectual drainage of the building and the provision of the requisite connection with any sewer to which such drain may lawfully empty at a point in the upper half of such sewer, or with any other means of drainage with which such drain may lawfully connect.

19. **Connection to Sewer -**

Every owner / occupier / user who carries out a water borne sanitary installation work for any new or existing building or in any other premises shall connect by means of a drain or drains with an Agency sewer of adequate size for the full discharge of the said water borne sanitary installation taking in view / fulfilling clause 7(iv) of these regulations.

20. **Connection to Septic Tanks -**

Where Agency sewers do not exist, the water borne sanitary installation may be connected to a septic tank or other means of disposal of solid and liquid waste after first obtaining the approval of the Engineer. The internal main sewer shall be connected to the approved disposal facilities to be provided on the said premises and the owner shall be responsible for the disposal of the solid and liquid waste on the premises of the said building without nuisance or danger of health/ environment.

The effluent from the septic tank may be disposed of by sub-soil irrigation through open pipes laid under land belonging to the said premises or into suitably lined absorption pits providing that no domestic water supply is taken from the sub-soil water.

21. **Disposal of Discharge -**

The owner or occupier of premises shall not cause the discharge from any water borne sanitary installation, absorption pit or septic tank to pass into any surface drain, storm water channel, storm water drain, irrigation water channel, cesspool, unlined absorption pit or over the surface of any land or otherwise in any manner not in accordance with these regulations.

22. **Inlet and Outlet of Baths and Through -**

- (1) Every inlet to a bath, wash-basin, sink or similar application shall be separated from and unconnected with any outlet therefrom.
- (2) Every outlet from emptying a bath (other than a shower bath), wash-basin, sink or similar appliances shall be provided with a readily accessible watertight plug or with some other no less effective device for closing the outlet: Provided that this paragraph shall not apply to:
  - (i) Any appliance required by law to be fitted with an unplugged outlet: or
  - (ii) Any appliance to which water is delivered exclusively by a fitting or fittings so designed and arranged as to be incapable of delivering water to that appliance or in the case of washing trough any unit thereof at a rate exceeding 5 pints per minute.
- (3) Every fitting for delivering water to a washing trough shall be so designed and arranged as to be capable of discharging water to one unit of the trough without simultaneously discharging it to other units.

**Note-** In this regulation

“**Washing Trough**” means a wash basin, trough or sink measuring internally 4 feet or more over its longest or widest part.

“**Unit**” in relation to such a trough means 2 feet of the length of the trough, or in the case of a circular or oval trough, 2 feet of the circumferences thereof.

23. **Discharge Level -**

- (1) Every tap or fitting (other than the flushing pipes of a flushing cistern) which discharge water into a bath, wash basin, sink or similar appliance shall be so fitted that it cannot discharge less than  $\frac{1}{2}$  inch above the lowest part of the top edge of a appliance. Except that a fitting to which a loose pipe is or may be attached may discharge at a lower level providing that there are effective means of preventing syphonage of water back through every pipe conveying water to the fitting.
- (2) Any fitting may be so installed that it can discharge lower than the above level, if every pipe conveying water to that fitting:-
  - (i) draws water only from a storage cisterns, cylinder or tank having a vent open to the atmosphere and;
  - (ii) is connected to the cistern, cylinder or tank not less than 1 inch above the lowest part of the top edge of the appliance; and
  - (iii) does not convey water to any draw off tap or fitting (other than a draining tap) which discharges water lower than the last mentioned level.

24. **Flushing Cisterns to Closets and Urinals -**

Every water closet pan and every urinal shall be provided with a flushing cistern or some other efficient flushing apparatus. The cistern or apparatus shall be separate and distinct from any cistern or a apparatus used for drinking purpose. It shall be constructed, fitted and placed to admit the supply of water so that there is no direct connection between any water service pipe upon the premises other than that connecting with flushing cistern or apparatus. Except with the approval of the Engineer, the cistern shall be placed as to provide a head of at least 5 feet measure from the bottom of the cistern to the point where the flush pipe enters the water closet.

Every flushing cistern shall be provided with a suitable ball cock fixed on the supply pipe and on overflow warning pipe which will discharge into the open air in a conspicuous position where the discharge of water may be readily seen.

25. **Pipes to Water Closet Pans -**

No pipe other than a flushing pipe leading only from flushing apparatus, shall be connected in such a way that it can deliver water to any water closet pan or urinal.

An overflow warning pipe may be arranged if necessary to discharge into the pan of a water closet or into a urinal but only if the water is discharged into the air not less than 6 inches above the top edge of the pan or urinal.

26. **Capacity of Flushing Cisterns -**

- (1) No flushing cistern or other flushing apparatus having a urinal shall be of such a design or be so arranged as to give a flush of more than 1 gallon per litre per 2 feet 3

inches width of slab (except with the upward variation permitted by use of slabs of the British Standards specified in paragraph (2) of this regulation)

- (2) Every such flushing cistern shall comply with British Standard 1277: 1974 'Automatic Flushing Cisterns for Urinal' or with British Standard 1123: 1973 'W.C. Flushing Cisterns (including flush pipes)'

27. **Automatic Flushing Apparatus -**

Except with the written permission of the Engineer, user shall not construct or fit any self-acting or automatic flushing apparatus. In those cases where sanction is accorded for automatic flushing, he shall submit for the approval of the Engineer detailed specification and drawings to show the size of the apparatus, the material of which it is to made and method and frequency of its operation, and shall modify the apparatus as may be required by the Engineer.

28. **Size of Flushing Pipe -**

The pipe and union connecting the flushing cistern of a water closet or latrine with the basin, trough or other receptacle shall have an internal diameter of not less than 1 1/2 inches and shall be fixed as near vertical as possible.

29. **Traps and Gullies -**

Every person who constructs a water borne sanitary installation or any part thereof, in any existing or new building, or any other premises shall cause all gullies traps, gratings, covers and other appliance to be of a pattern, size and quality approved by the Engineer. He shall cause every stoneware gully to be placed on a bed of cement concrete at least 4 inches thick and act so that the water level therein is at least 12 inches below and the grating at least one inch below the surrounding pavement. The pavement shall be sloped towards the gully for a pace equal to half of the width of the grating. Every gully trap shall be covered with a suitable iron grating provided with a hinged cover of approved design.

30. **Drains to be Trapped -**

Every person who constructed water borne sanitary installation or any part thereof for any existing or new building or in any other premises, shall provide in main drain or other drain of such building or premises which may immediately connect with sewer, septic tanks, or other disposal or treatment works, a suitable and efficient intercepting trap at such distance as may be practicable from the point at which the drain may be connect with the sewer, septic tank or other disposal works.

31. **Drain Screen -**

An open surface drain shall not be connected to the Agency sewer without a bar screen of approved design being provided at a suitable point. This may be carried out only up to the period when the storm water drainage is made completely separated from sewerage system and storm water drains use is limited to rain water only.

32. **Access Manholes -**

Every person who constructs water borne sanitary installation or a part thereof for any existing or new building or in any other premises shall provide access manhole at a suitable point on the premises as directed by the Engineer. The manhole shall be raised up to the level of the adjoin ground surface or roadway and shall be fitted with a suitable iron or reinforced concrete cover and frame. If placed within a building it shall be fitted with an airtight cover and frame.

33. **Size of Pipe --**

All pipes used in water born sanitary or drainage installation shall be capable of passing the maximum estimated flow and shall have internal diameter of not less than 4 inches. Providing that the internal diameter of the pipe connecting the access manhole with the Agency sewer shall have an internal diameter of not less than 6 inches.  
Explanation- "Internal Diameter" means internal diameter of the pipe exclusive of any lining.

34. **Ventilation Pipe -**

- (1) Every water closet shall have its soil pipe which connects to sewer, tanker, other disposal or treatment works properly and adequately ventilated. Multiple water closets connected with a common soil pipe may use a non vent pipe.
- (2) The ventilation pipe of every such water closet shall be vented into the open air at a point above the highest water closet connected with such pipe.
- (3) The ventilating pipe shall have an internal diameter of not less than 2 inches and shall be connected with the arm of the soil pipe or trap at a point not less than 3 and not more than 12 inches from the highest part of the trap and on the side of the water seal, which is nearest to the soil pipe, the joint between the ventilating pipe and the arm of the soil pipe or trap shall be made in the direction of the flow.
- (4) Slop sinks, urinal and other sanitary fittings shall be vented in a manner approved by the Engineer.

- (5) Under the high stack system, water seals shall be provided of adequate depth so that they cannot be broken under the maximum expected vacuum in the system.

35. **Ventilation of Closet Area -**

Every water closet room or area shall be provided with adequate means of constant ventilation by means of an air brick built into an external wall of such water closet, or by an air shaft or some other effective method of ventilation. The area of the means of constant ventilation shall be not less than 38 square inches.

36. **Pump Directly Connected -**

No user shall be permitted to install a pump either mechanically or manually operated on a water borne sanitary installation which discharge into a sewer connection or direct to a sewer of the Agency.

37. **Air Gaps -**

All water borne sanitary installation shall be provided with sufficient air gaps above the level of their over flows so that any back flow into the drinking water supply system is avoided.

**PART - IV SPECIFICATION FOR THE CONSTRUCTION OF  
WATER BORNE SANITARY INSTALLATIONS**

38. **Excavation, Laying and Fixing -**

- (1) The material from the excavation shall be so placed as to cause the least possible obstruction and inconvenience to the public.
- (2) Proper barriers and lights shall be maintained where necessary to guard against accidents during the progress of the work. On completion of refilling, the surface shall be restored as nearly as possible to the same condition as it was before the commencement of excavation unless the Engineer in writing otherwise requires.
- (3) Unless otherwise approved, any pipeline connecting water borne sanitary installation with an Agency sewer shall be laid in a straight line between the premises and the sewer. Any changes in direction shall only occurs within an access manhole constructed to accommodate the change.

39. **Connection to Sewer -**

Each property shall have a separate and distinct connection to the Agency sewer provided that where the Engineer approves, more than one properties may be connected through a common outlet pipe in such manners as the Engineer may determine.

40. **Pipe Laying -**

- (1) Every pipeline constructed in connection with water borne sanitary installation shall be laid to correct line and level and the barrel of each pipe shall be fully supported on compacted granular material or compacted brick ballast on undisturbed ground (As per WASA Design Criteria) Whereas pipeline is to be laid on disturbed or backfilled ground, the ground shall be properly compacted to the satisfaction of the Engineer and then granular material or brick ballast shall be compacted before pipeline laying is undertaken. All pipeline sockets shall be laid against the direction of flow.
- (2) Every pipeline joint shall be made in accordance with accepted practice and to the approval of Engineer. Every joint shall be water tight and on completion of the pipeline it shall be tested in accordance with the regulations and to the satisfaction of the Engineer.
- (3) Where a pipeline has less than 2 feet of cover between the top of the pipe and the ground surface, it shall be surrounded with 6 inches of concrete and to such further extent as the Engineer may require.

41. **Pipeline Test -**

When each length of pipeline between access points has been laid, the pipeline shall be tested to the satisfaction of the Engineer before the excavation is backfilled. Tests shall be carried out by subjecting the pipeline to a smoke test or a hydrostatic pressure test in accordance with the Engineer's requirements. Any faulty joints revealed by the test shall be made good and the pipeline retested to the satisfaction of the Engineer.

42. **Back Filling of Excavation -**

Backfilling of pipeline excavation shall be carried out by placing the excavated material around the pipe and carefully compacting so that the pipes are adequately supported and protected. Stones or other hard material shall be excluded from the backfill and only soft material shall be placed in contact with the pipes.

The excavation shall then be completely backfilled in layers of 6 inches, each layer being thoroughly compacted before the succeeding layer of backfill is applied. Backfill shall be carried out manually.

43. **Notice of Completion -**

Every person who carries out any water borne sanitary installation or drainage installation or any work in connection therewith for any existing or new building or in any other premises shall give the Engineer notice in writing stating the date and time at which such work will be ready for final inspection and where necessary, for final inspection with any existing sewer, or storm water or surface drains vested in the Agency. The notice shall be delivered to the Sub Divisional Office of the Agency at least two days before the date stated therein.

44. **Inspection -**

Every person who carries out any water borne sanitary installation or sewerage installation or any works in connection therewith for any existing or new buildings, or in other premises shall afford the Engineer free access to such installation of work in progress for the purpose of inspection. The Engineer shall see that the requirements of the regulation are applied but such inspection shall not relieve the person of his obligation to comply with the regulations. The Engineer shall point out to the user any faults in construction or quality of material and the user shall rectify such fault to the satisfaction of the Engineer.

**PART - V SPECIFICATION OF MATERIAL**

45. **Pipe Materials -**

All pipes in water borne sanitary or drainage installation shall be of RCC, PVC, GRP/FRP, HDPE or such other material as the Agency may from time to time approve.

46. **Quality of Material -**

- (i) All material, pipes, bends, junctions and fittings shall be of the quality of their respective kinds, free from defects and of the kind or standard approved from time to time by the Engineer.
- (ii) Second hand material may be used only with the prior approval of the Engineer and on written request of the owner of the property, provided that such materials comply with the requirement of the regulation with regard to construction type, quality soundness and efficiency.

47. **Approved Material -**

No person shall use any material in or for any work of a water borne sanitary drainage installation which have not been approved, or which do not comply with the requirements of these regulations.

48. **Pipe and Fittings -**

Pipes and fittings used in water borne sanitary installation or drainage installation shall be regular in section, smooth, clean and free from obstruction to the flow of water and shall comply with the requirements of the relevant British Standard specification relevant for such pipes and fittings.

49. **Jointing Material -**

Jointing material used in connection with joints on cast iron with cement and PVC pipes shall comply with the pipe manufacturer's requirements.

50. **Cement Mortar -**

Cement mortar unless otherwise ordered by the Engineer shall be, by volume or by weight, of one part of Port land cement and two parts of clean sharp sand and thoroughly mixed with an approved portion of clean water.

51. **Cement -**

Cement used in any water borne sanitary installation or drainage installation shall be Portland cement of approved brand and shall be submitted for test if so required by the Engineer. No cement or concrete shall be used which has been mixed longer than one hour.

52. **Concrete -**

Concrete unless otherwise ordered by the Engineer shall consist by volume, by weight of one part Portland cement, two parts clean sharp sand and four parts approved hard gravel not exceeding 1 ½ inch nominal gauge and shall be thoroughly and homogeneously mixed with clean water to such an extent as may be ordered or approved by the Engineer.

**PART - VI STORM WATER DRAINAGE AND SULLAGE WATER**

53. **Sullage Water -**

No person shall connect his sullage water with any storm drain or discharge it on open land. Failure to comply with this requirement shall be an offence under regulations. •



24. **Interference with Work** -  
No person shall erect or construct upon any storm drain or sewer or on the land adjoining them belonging to the Agency, if any structure, fixture, obstruction, building, apparatus or shall be erected and the construction shall not have any claim for compensation in respect thereof. With the permission of the Agency, a person may erect a storm drain on his own land, but a request shall be submitted to the Agency in advance of the work being carried out and the work shall be subject to such conditions and regulations as the Agency may impose.
25. **Drain of Surface Water** -  
The or surface water in drainage without passing through to the Agency, shall be that of such a nature and shall be provided accordingly. Minimum average cannot be used for growing vegetation.
26. **Blockage of Storm Water Drains** -  
Dumping of rubbish, waste material or any other items into storm drains is strictly prohibited.
27. **Interference with Treatment Plants** -  
Persons who have entered into agreement with the Agency to obtain effluent from a sewerage treatment plant of the Agency shall not interfere with the running of the Plant in any manner.

#### PART - VII PROTECTIVE MEASURES

28. **Inspection of Material and Works** -  
(1) All materials, pipes, fittings and apparatus shall be approved by the Engineer and where required by him shall be submitted to the Agency for verification and test.  
(2) No person shall cover up or conceal from view or put into use any water and sanitary installation work or drainage work until it has been inspected and approved by the Engineer.  
(3) Every person and his employees carrying out or engaged on or in connection with water borne sanitary or drainage work shall afford every reasonable facility and information to enable the Engineer to make his inspection.
29. **Unauthorized Connection** -  
If any unauthorized connection is discovered, the owner shall, on being served with a notice in writing by the Engineer, have the connection regularized by paying the prescribed fee and penalty subject to the connection complying with the requirements of these regulations. Otherwise the connection shall be removed by the Agency at the cost and risk of the owner.
30. **Damage to Sewer or Drain** -  
(1) Any person who damages a sewer or storm water drain of the Agency shall be guilty of an offence under these regulations and besides criminal liability, shall be liable to pay the cost of repair to the Agency.  
(2) No one shall damage any sewer pipe, drain, channel, conduit or structure, manhole, chamber, fixture and equipment or any part of sewerage / drainage system.  
(3) Nobody will throw or dispose wastes / solid wastes / garbage in Agency's sewers / drains.
31. **Interference with Duties** -  
Any person who obstructs or hinders an official of the Agency in performance of his duties shall be guilty of an offence under these regulations.

#### PART - VIII INDUSTRIAL WASTES

32. **Discharge of Industrial Wastes** -  
Industrial wastes that are likely to affect the normal quality of sewage or adversely affect the sewers shall not be discharged into the Agency's sewers without the permission of the Agency in writing. All the industrial effluent shall be treated by the consumer by making his own arrangements or paying thereof to the Agency for said treatment.
33. **Quality of Sewage** -  
The normal quality of sewage shall be considered to have been affected if any of the following qualities exceed the capacity notified by the National Environmental Quality Standard (NEQS)  
(i) PH (Hydrogen Ion Concentration).  
(ii) Total Dissolved Solids.  
(iii) Total Suspended Solids.  
(iv) Biochemical Oxygen Demand.  
(v) Temperature.  
(vi) Color.  
(vii) Coliform Organisms and other bacteria.

64. **Industrial Waste**

- (a) Industrial waste containing chemical substances shall not be discharged in excess of amount specified in the discharge permit or licence issued.
- (b) No one is allowed to discharge any liquid matter and substances without permission.
- (c) No one is allowed to discharge any liquid matter and substances into any other water body or channel or to deposit the effluents or substances into any other water body or channel or to discharge into the sea or into any other water body or channel or to discharge into any other water body or channel or to discharge into any other water body or channel.
- (d) Every consumer is bound to treat the waste water in being its treatment according to NEQS before discharging it into water system.

65. **Permit/disposal of Industrial Waste**

Agency may order a manufacturer to treat his industrial waste or his permission to the water considered necessary by the Agency before he is allowed to discharge it into the water. The decision of the Agency in this respect shall be final and binding on the manufacturer.

66. **Discharge to River**

No manufacturer shall discharge his waste into a river if the waste is likely to adversely affect the normal quality of river water and its self purification capacity or the normal flow of water is endangered and the recreation or any other use of river water is adversely affected.

67. **Discharge into Sub-Soil**

No manufacturer shall be authorized to dispose of any waste into the sub-soil without the prior permission of the Agency if the waste on reaching the ground water renders it unsuitable for human consumption.

67-A. **Sewage Quality Rate**

The Agency may charge the sewage quality rate to wastewater with the quality exceeding that of general domestic wastewater besides from the ordinary wastewater rate.

68. **Details of Waste**

- (1) Every manufacturer shall submit to the Agency, the analysis of any industrial waste that is likely to be discharged into the Agency sewer. The Agency may also require the manufacturer to submit details of any proposed discharge of waste into the Agency's sewer before an industry is set up.
- (2) The details supplied by the manufacturer shall indicate the quality, volume and maximum rate of flow of industrial waste proposed to be discharged into the Agency's sewer and shall also indicate the date by which the industrial waste is likely to commence discharging.

68-A. **Power to Take Samples**

- (1) The Agency shall be entitled to enter into the consumer's premises to take a sample of industrial waste for examination purpose and if its results are different from those registered by him or exceed the NEQS for Municipal and Liquid Industrial Effluents, the Engineer may require its improvement to his satisfaction, or otherwise disconnect the line.
- (2) If the consumer willfully, negligently or intentionally refuses from, causing hindrance or from obtaining samples, shall be punishable as provided under Section 33 & 34 of LDA Act 1975.

69. **Industrial Water Agreement**

The manufacturer may enter into an agreement with the Agency for the conveyance, treatment and disposal of industrial waste at Agency's plant provided that:-

- (a) The Agency's order regarding treatment of waste at the consumer's premises have been fully complied with.
- (b) The manufacturer agrees to pay any expenses arising from the conveyance of his industrial waste through the Agency's sewer and treatment and disposal of such wastes at the Agency's plant; and
- (c) The industrial waste does not contain any toxic or radio-active substance that are really to be hazardous to workmen in charge of the maintenance of sewer and the sewage treatment plant of the Agency.

70. **Defective Work -**  
All pipes and fitting which on inspection or test are found to be defective shall be removed and replaced by sound, approved pipes and fittings and all leaking or defective joints shall be made watertight and good by the user.
- 70-A. **Method for Calculation of Sewer Dues -**
- (i). **Sewerage charges against the Agency Water Connection;**  
(a) The sewerage charges for all Domestic connections shall be calculated as 70% of water charges, or the prevailing tariff whichever is higher will be charged.  
(b) The sewerage charges for all Non-Domestic / Commercial / Industrial connections shall be calculated as 80% of water charges or the prevailing tariff whichever is higher will be charged.
- (ii). **Sewerage charges where Agency water connection does not exist**  
The sewer charges against the consumer's own source of water will be calculated in the same manner as mentioned in point (i) above, however the quantity of water will be assumed as per area of property in case of domestic connection and the type of activity in case of commercial connection.
- 71- **Disused Services -**  
Where any water borne sanitary or drainage installations connected with the Agency's sewer is abandoned or fall into disuse, the owner shall remove or disconnect it and shall seal it at the point of disconnection with the sewer to the satisfaction of the Engineer.
- 71-A. **Discontinuity of Sewerage and Drainage Services-**  
The Engineer reserves the right to discontinue sewerage and drainage service due to the following reasons but not limited to;
- (i) Any ongoing emergency or planned repair / improvement works
  - (ii) Increase in discharge in excess of the rated discharge of industry
  - (iii) Rain emergency
  - (iv) Environmental and health hazard
  - (v) Financial default
72. **Penalties -**
- (A) Whoever contravenes any of these regulations shall be punishable as provided under Section 33 & 34 of LDA Act 1975.
- (B) **Damaging sewerage / drainage system or part of the system**
- (1) No one shall damage any sewer pipe, drain, channel, conduit or structure, manhole, chamber, fixture and equipment or any part of sewerage / drainage system.
  - (2) No body will throw or dispose wastes / solid wastes / garbage in Agency's sewers / drains.
- (C) **Illegal Sewer Connection**
- (i) No one shall make any sewer connection to the Agency's sewer / drain without the permission of Engineer.
  - (ii) An illegal connection will be regularized according to the prevailing policy / practice of Agency. However the illegal users are bound to provide all the necessary documents as required for new connection.

#### PART - X REPEAL

73. **Repeal of Regulations -**

The Water & Sanitation Agency of Lahore Development Authority's Sewerage & Drainage Regulations of 1978 are hereby repealed.

No. MD/434-37 In exercise of the powers conferred by section 45 of the Lahore Development Authority Act, 1975 the Lahore Development Authority is pleased to make the following Regulations.

### Lahore Development Authority (Water and Sanitation Agency) Water Supply Amended Regulations - 2017

#### PART - I DEFINITIONS

1. **Short Title-**

The regulations shall be called the Lahore Development Authority (Water and Sanitation Agency) Water Supply Amended Regulations - 2017.

2. **Commencement**  
The Regulations shall come into force as may be.
3. **Definitions** - In these regulations unless there is anything contradictory to the context or context:
- "Agency" means the Water and Sanitation Agency established under section 10 (2) of the Lahore Development Authority Act, 1974.
- "Aquifer" means a layer of water bearing rock or strata located underground that contains water in sufficient quantity to supply producing wells or natural springs.
- "Consumer" means (i) any person, business, institution, establishment or enterprise who in agreement with the Agency shall be entitled to use the facilities of the water supply as per terms of the agreement, and (ii) any end user who receives water supply or sanitation services from the Agency.
- "Occupant" means a person in occupation or control of premises, and also in relation to premises where different parts of the premises are occupied by different persons, the respective persons in occupation or control of each part of the premises.
- "Engineer" means an Engineer in the employ of the Water and Sanitation Agency of the Lahore Development Authority for the purpose of these regulations and shall include any officer or official deputed by the Engineer to act for him.
- "Ground Water" means subsurface water that occurs beneath a water table in soils and rocks, or in geological formations.
- "Contractor" means any person who for the time being is authorised by the Agency to carry out any work of water supply under these regulations.
- "Meter" means any apparatus, equipment or device used for the purpose of measuring the quantity of water supplied.
- "Defective Meter" means any meter which is damaged, did not clean, itself broken, with broken seal or whose reading cannot be accessed accurately.
- "Metered Connection" means a connection for which bill is calculated on the basis of actual meter reading consumption (in case a meter is installed) or otherwise bill is calculated on the basis of fixed average consumption as specified in section 20-A of these regulations.
- "Person" means any person or body of persons whether corporate or incorporated.
- "Regulations" means the Lahore Development Authority (Water and Sanitation Agency) Water Supply Amended Regulations - 2017.
- "Service Pipe or service water pipe" means the pipe from the Agency distribution main / distribution network to inside the consumer's property or any pipe for supplying water from the public mains to any premises which is subject to water pressure from the mains or would be so subject but for the closure of some taps or valves. The expenditure of this pipe is to be born by the consumer.
- "Water", in relation to the distribution or supply of water, means treated water.
- "Water fittings" includes pipes (other than the public mains), specials, taps, cocks, valves, ferrules, meters, sub-meters, cisterns, baths, water closets, hot water apparatus, and parts and other similar apparatus or appliance used in connection with the supply and use of water.
- "Water Main" means a water pipe or conduit carrying water for public use which is owned and operated by the Agency.
- "Water Quality" means quality of water whereof is appropriate as per standards issued by the Commission for the purpose for which it is supplied or used.
- "Water Service" means the pipes and fittings used in connection with the supply of water from the water main (Agency main) to any premises.
- "Water supply distribution area" means an area within which Agency (WASA) is responsible to distribute and supply water.
- "Water supply services" means the abstraction of ground water or treatment of surface water and the distribution and supply of drinkable or treated water to consumers and includes the operation and maintenance of the water supply system;
- "Water supply system" means the whole of a system incorporating distribution mains, pipes, chambers, treatment plants, pumping stations, tubewells, service or balancing reservoirs or any combination thereof and all other structures, installations, buildings, equipment and appurtenances used and the lands where the same are located for the storage, abstraction, collection, conveyance, treatment, distribution and supply of water.
- "Well" means a well sunk / drilled / bored for the search or abstraction of water by a person or persons for carrying out scientific investigations, exploration, development or management work for the survey and assessment of water resources or for providing water and includes open well, dug well, bore well, dug-cum bore well, tubewell and collector well.
- "Work of Water Supply" means the construction, alteration, extension, disconnection, removal, maintenance, repair, renewal or cleaning of any pipe or fitting of any water service.

communicating or intended to communicate directly or indirectly with any water main of the Agency.

## PART - II APPLICATION AND GENERAL PROVISIONS

### 4. Existing Water Services -

Any water connection with or through the water main transferred to the Agency under the Act and lawfully existing on the date on which these regulations come into force shall be deemed to have been made under these regulations subject to the provisions herein contained.

### 5. Application for Installation -

- (i) No person shall carry out any water supply installation work or make, cause or permit any private connection pipe to connect directly or indirectly in any new or existing building or in any other premises and connect the same with the water main (Agency main) without first obtaining permission from the Agency.
- (ii) Application (along with required documents) for a new connection should be submitted on the prescribed form, which can be obtained from any office of the Water and Sanitation Agency on payment of the appropriate fee.
- (iii) Application form should be accompanied by attested copies of CNIC and title document(s) of property. In case property number is not confirmed from the title documents copy of PT-1 should also be submitted.
- (iv) A new water connection will only be allowed on the request of or with the approval of the owner of the property. If ownership lies with any Trust the connection will only be made with the permission of the Trust. Provided that a tenant or such other person occupying the premises or a part of the premises not owned by them may apply for a domestic supply of water with the approval of the owner but such connection will always be sanctioned in name of the owner.
- (v) Water connection shall not be sanctioned if ownership of the property is disputed or property is in default.

### 6. False or Incorrect Description in the Application -

In case the entries made in this application or documents attached with it are found false or incorrect at a later stage, Agency shall have the right to disconnect the water connection without any notice and confiscate the security amount deposited by the consumer. If there are any further dues payable by the consumer, these will liable to be paid accordingly.

### 7. Deposit of Plans -

The consumer when required shall deposit with the application two copies of plans and sections which clearly and indelibly drawn on a durable material (to a scale of not less than one inch to eight feet which shall be clearly marked on each drawing) which shall show thereon every floor of the building in connection with which such water supply installation is to be used. The position, form, levels and arrangements of several parts of such buildings shall be shown including proposed sizes and measurements of the pipe lines to be laid, stop valves, cisterns, sink taps, hot water boilers and all other fitting to which a supply of water like is to begin or from which a supply is to be taken.

### 8. Connection Requirement -

The connection may not be given unless

- (i) Adequate drainage facilities are provided to the satisfaction of the Engineer.
- (ii) A written consent of the owner giving his valid National Identity Card (CNIC) issued by the Government of Pakistan and accompanied by the application for water connection is produced.
- (iii) A deposit sufficient to cover the following items has been made by the applicant or owner as specified by the Agency.
  - (a) Inspection fee;
  - (b) Connection fee;
  - (c) Cost of fixing meter;
  - (d) Security deposit;
  - (e) Advance water rate and;
- (iv) The deposit as per clause (iii) shall be in accordance with the scale which may from time to time be fixed by the Agency.
- (v) For new water connection construction of ground water tank is mandatory. For houses upto 5 Marlas steel or plastic tanks can be kept on the surface (ground floor). Water connection from the Agency water main will be directly connected with this tank. Pumping of water from the water main shall not be allowed and pumping if required, shall be made from the tank constructed at ground floor or from the tank kept on the surface of ground floor.
- (vi) On provision of water connection the consumer will directly connect the water main to the ground tank or tank kept on the surface of the ground floor. Previously sanctioned connection should have this arrangement by the year 2018.

8. **Inspection of Premises** -  
Presentation of the new connection application shall be deemed to authorize the engineer to enter the premises after reasonable notice and to examine and test the applicant's pipes and fittings with which the connection is to be made and the drains, water closets, receptacles and latrines into which water received is to be discharged and also for reading meters, inspecting and testing any apparatus belonging to the Agency on the consumer's premises when water connection is provided.
9. **Approval of Application** -  
The Engineer shall within seven days of the deposit of the application and such plans and sections as may be required, inform in writing the person who gives such application as to whether the application, plans and sections are approved or not.
10. **Alteration to Application** -  
The Engineer may direct an applicant to make any alterations or improvements which appear to be necessary or desirable and the applicant shall comply and resubmitted the plans and sections accordingly.
- 10-A. **Change of Name of Owner**  
If there is any change in the ownership of the property the new owner is required to get register the bill in his name, for which he will submit the following documents along with application:-
- Attested / Certified copy of Sale Deed, Transfer Deed or Transfer Letter.
  - Copy of PT-I issued by the Excise & Taxation Department in his favor to confirm the property No. if so required.
  - Attested copies of valid CNIC of his own and that of previous owner.
  - Affidavit to the effect that there is no dispute or litigation regarding title of the property and he is in possession of Property.
  - Copy of last paid bill.
11. **Service Connection** -
- In case the aforesaid application for installation of connection is accepted by the Engineer, he shall thereupon cause the system of water pipes in the applicant's premises to be connected with the Agency water main through its own staff/contractor by a connecting pipe and appropriate water fitting of approved material extended from such water main to the terminal point of the applicant water piping system which may be outside or inside of the applicant's premises and therefore levy charges in accordance with the prescribed rate.
  - No connection shall be made from the water mains until the estimated cost of making the connection has been deposited with the Agency and all the water fittings requisite for the supply of water have been previously erected and completed in accordance with the requirements of Agency.
- 11-A. **Water Use for Other than Agreed Purpose**  
The consumer is obliged to use water only for the purpose for which the connection was originally obtained as per agreement. For any other purpose (including construction work), the consumer will have to seek written permission of the SDO or Dy. Director Revenue of the area. The consumer on such permission will be bound to pay rates fixed for such converted use.
12. **Permission of Water Use outside the Sanctioned property / Supply to Other Premises** -  
The consumer will not permit the use of water by any neighbor or any person from outside the property with the water connection sanctioned. In case of violation the consumer will be responsible to pay all the costs of illegal use of water and nothing in the regulations shall prevent the Agency for disconnecting the water supply of the consumer.
13. **Separate Connection** -  
In the event of a consumer requiring a separate water connection for separate house or portion of the same property, the Engineer may permit a supply of water through common feeding pipes subject to the condition that:-
- The service shall be maintained to the requirement of these regulations; and
  - The owner shall not object to the tapping of the ferrule for giving connection to the applicant, provided that the number and particulars of the services do not exceed following:

Sr. No.	No. of Houses, Shop, Flats, etc.	Ferrule Size (Inches)	HDPE Pipe Size (mm) from Main to Meter
1	1	1/4	25

2				
3	23-25			52
4	26-32			50
5	33			45

#### 13-A. **Illegal Connections**

- (a) No one shall make or get any water connection from Agency water supply line without the permission of the Agency.
- (b) An illegal connection will be regulated according to the prevailing policy / practice of Agency. However the illegal users are bound to provide all the necessary documents as required for new connection.

#### 14. **Stop Valve Required -**

Each service shall be fitted with a stop valve at a convenient possible position to the satisfaction of the Engineer so that any disconnection may, if required, be arranged easily without the disturbing the supply of other consumer.

Failure to provide a stop valve within a period of seven days from the service of notice shall be an offence under these regulations.

#### 15. **Non Domestic Water Service -**

- (1) A request for the grant of a water service for non-domestic purposes shall be made in the same manner as for a domestic service.
- (2) A non-domestic water service shall include a service for but not limited to:
- Any trade, manufacture, business or rendering services against compensation.
  - Construction and building purposes.
  - Watering or washing of animals.
  - Washing vehicles when such vehicles kept for sale or hire.
  - Swimming pools or for any environmental and mechanical purposes.
  - Gardens or for the purposes of irrigation.
  - Washing roads and paths.
- (3) A non-domestic connection shall preferably be through a meter.
- (4) Keeping the meter in proper condition shall be the responsibility of the consumer. In case of any repair/replacement needed, the cost shall be borne by the consumer.
- (5) In case a meter is damaged, the water rate bill shall be charged on the average consumption over three months or one year whichever is higher.
- (6) No connection shall be sanctioned for the followings:
- Washing roads and paths.
  - Public stand posts.
  - Without ownership of financial liability.
- (7) **Misuse;** In case a domestic water connection is found using water for non-domestic purpose, it shall immediately be converted into non-domestic connection and despite charging penalty thereof the differential of new connection charges will also apply.

#### 16. **Auxiliary Temporary Water Services -**

The Engineer may arrange a temporary or auxiliary water service in such a manner as he deems fit for any person or for any occasion and period in accordance with these regulations and charge the same at the prescribed rates or such other manner as may be approved by the Agency.

#### 17. **Fire Services -**

- The Agency shall make adequate arrangements for a supply of water for fire services through specified fire hydrants on its distributions system in accordance with the requirements of the local fire fighting system, and furnish information to that effect to fire-fighting service / Metropolitan Corporation Lahore / CDGL, which shall pay for water at the prescribed rate.
- All specified existing fire hydrants on the distributions system transferred to the Agency under the Act as well as new hydrants fixed by the Agency under an expansion program shall be maintained in proper working condition by fire-fighting service / Metropolitan Corporation Lahore / CDGL.
- Any person or applicant, subject to the condition of these regulations, requesting new or additional fire service shall deposit in advance with the Agency such sum as it shall demand and upon completion of the work shall pay on demand such further sum as may be necessary to make up the cost of the work and material.
- The Agency can allow the Fire Services Department or any other person authorized by the Government of Punjab or under any statutory law to take water for extinguishing fires from any of its water mains or other pipes on which a fire hydrant is fixed.

**17-A Taking Water from Fire Hydrant**

No one other than the person(s) referred in regulation 17 shall take water from a fire hydrant.

**18. Size of Fire Services and Indicator Plates -**

All fire services shall be of a uniform size of fire hydrants and in no case be less than 2 1/2 inch diameter and shall be adequately exhibited by the indication plates fixed on adjacent permanent structures to the satisfaction of the Engineer.

**19. Public Stand Posts -**

- (1) Water for domestic use may continue to be drawn by the public from the Public Stand Posts erected for the purpose until such time as the Authority finds it necessary to remove a PSP due to:-
    - (i) Misuse of Water for purposes other than domestic;
    - (ii) Undertaking repair;
    - (iii) Ensuring safety of public or private property;
    - (iv) Maintaining social harmony or peace in the area being served by the Public Stand Post.
    - (v) Complying with request of closure of Public Stand Posts by Metropolitan Corporation Lahore / CDGL.
    - (vi) Financial default or disowning the financial liability by Metropolitan Corporation Lahore / CDGL / any other person.
    - (vii) Risk of contamination or pollution of the water supply.
  - (2) No person shall take a bath or wash clothes or other articles or animals at a public stand post or a hydrant or tamper with or damage a public stand post or hydrants or draw or attempt to draw water from a public stand post or hydrants except by the proper method or willfully waste water or suffer water to run to waste from a Public Stand Post.
  - (3) No person shall without the written permission of the Agency draw or use water from a public stand post or hydrant for a purpose other than a domestic purpose.
  - (4) All Cattle Troughs and Lorry Stands shall be maintained by the owners or by the Metropolitan Corporation Lahore/CDGL as the case may be.
- Explanation - For the purpose of these regulations water for domestic purpose shall not be deemed to include:-
- (i) For any trade, manufacture, business or Services;
  - (ii) For fountains, swimming pools or any ornamental or mechanical purposes;
  - (iii) For gardens or for purposes of irrigation;
  - (iv) For washing roads or paths;
  - (v) For construction purposes; or
  - (vi) For cattle troughs meant for more than one animal.

**20. Adherence to Regulations etc -**

The consumer will obey and carry out, as the case may be, each and all provisions of these regulations, directions or order lawfully issued there under by the Agency.

**20-A. I) Payment of Bills**

Bills are regularly delivered to all consumers by the Agency. If due to any reason, the consumer does not receive a bill, he shall have to personally get the bill from the Agency or to arrange through WASA website and make payment within the stipulated period. Non receipt of a bill shall not be considered an excuse for nonpayment. If a tenant or any other resident does not pay the dues of the Agency, the owner of the property shall have to pay the same and in this matter the owner shall not resort to any court of Law.

**II) Places and Procedure of Payment**

- (i) The bills shall be payable at such places in accordance with such procedure that the Agency may prescribe.
- (ii) The employees of the Agency are not authorized to receive in cash or in any other form of the bill amount. It must be deposited in authorized banks/post offices/NADRA etc. The Agency shall never be responsible for the amount of bill that is paid to any employee of the Agency.

**III) Legal Actions on Recovery of Bill Amount / Penalties**

In case of non-payment, the amount of bill shall be recovered as arrear of land revenue under section-37 of LDA Act-1975.

**IV) Complaints about Bills**



If any connection from water Mains to any well situated upon the same plot or tract 1/2" or less below ground level shall be deemed to be of the character of all connections and be subject to the provisions of a connection shall not be accepted as an outlet for the purposes of this.

**(E) Installation of Water in Type of a Water use of Water**

Where the water charges which shall be the responsibility of a connection of the water pipe for the water of connection shall average the method of connection of water as shown below:

- (a) If directly installed water pipe into of water of Mains or water to be installed after the gas meter, then bill shall be based on the basis of average of previous consumption for last six months or one year whichever is higher.
- (b) If previous consumption's average is not available, the Agency Authority shall consider water shall be installed and bill shall be assessed on average of consumption of three months or one year which ever is higher as determined by

the subsequently installed meter or as assessed by DMR concerned getting written orders thereof.

**(F) Calculation of Dues for domestic connection if water is not installed**

If water is not installed on any domestic connection then in any cases these water charges for single story buildings shall be billed as per schedule given below:

Plot Size of Property (Mach)	Average Consumption per Month
Up to 2	10000 Gallons
3.1 to 5	12000 Gallons
5.1 to 7	15000 Gallons
7.1 to 10	17500 Gallons
10.1 to 15	20000 Gallons
15.1 to 20	25000 Gallons
20.1 to 40	30000 Gallons
40.1 & Above	40000 Gallons

Note: The above consumptions are only for single story buildings WADA may charge additional consumption just exceeding 25% of the consumption against the water used on each additional story.

**(G) Calculation of Dues for Construction Work**

- 1. If water is already installed on the connection and it is in working order then bill shall be changed from domestic to construction during the construction period, but not less than the period mentioned in serial No. 2 below.
- 2. When water is consumed for construction of a building either as an open pit or for construction of an hoisting to the existing building or construction of an additional story, water charges shall be billed as per schedule given below in addition to the domestic charges already being paid against domestic water connection.

SIZE OF PLOT	PER MONTH CONSUMPTION IN GALLONS	PERIOD OF CONSTRUCTION PER STORY	TOTAL CONSUMPTION IN GALLONS	TOTAL DEMAND
Up to 2-Mach	30,000	2-Months	60,000	As per prevailing rate.
3.1 to 5-Mach	30,000	3-Months	90,000	As per prevailing rate.
5.1 to 7-Mach	30,000	4-Months	120,000	As per prevailing rate.
7.1 to 10-Mach	30,000	5-Months	150,000	As per prevailing rate.

10.1 to 15-Marla	30,000	7-Months	210,000	As per prevailing rate.
15.1 to 20-Marlas	30,000	9-Months	270,000	As per prevailing rate.
20.1 to 40-Marlas	30,000	11-Months	330,000	As per prevailing rate.
<b>Above 40.1</b>	<b>30,000</b>	<b>15-Months</b>	<b>450,000</b>	<b>As per prevailing rate.</b>

**Note:** For the purpose of calculation of dues construction tariff will be treated as non-residential tariff.

**VIII) Calculation of Dues for Commercial / Industrial / non-Residential Connections**  
If meter is not installed on the commercial / industrial / non-residential connection water charges shall be billed as per scheduled given below or the prevailing tariff whichever is higher

Sr. No.	Categories:	Consumption (Gallons per month)
1.	Hotels (Air Conditioned) Per Room Charges.	5,000
2.	Hotels (Air Conditioned, having Restaurant) Per Restaurant Charges (In addition to room charges)	50,000
3.	Restaurants (Air Conditioned & above 1000 sq. feet covered area)	50,000
4.	Shopping Centers, departmental stores, Multistory plazas, Malls etc, per bath/washroom charges. (In addition to the charges of restaurants/offices/flats etc as the case may be)	5,000
5.	Car Service Stations/Washing Addas, Petrol Pumps/CNG Pumps with service stations, Beverage Factories, Ice Factories.	60,000
6.	Carpet Washing Addas, Dying Factories, Guest Houses/Hostels/Hotels (Non-Air conditioned) more than 10 rooms, Filtration Plants, Paint Factories, etc.	40,000
7.	Cement Pipe Factory, Ghee Mills, Oil Mills, Dairies, Guest Houses/Hostels/Hotels Upto 10 Rooms, Hotels (Non Air conditioned), Marriage Halls, Marquees.	30,000
8.	Restaurants (having 401 to 1000 sq. feet covered area), Ice Cream manufacturers, Foundry steel Mills, Chemical and Rubber factories, shopping Centers, Cinema Houses, Theatres, Motor Cycle Service Station.	25000
9.	Restaurants Non-Air conditioned or (Less than 400 sq. feet covered area), Plastic Industries, Shoes Industries, Power Loom Industries, Match Factory, Large Soap Factory, Gujjars with more than 20 animals, Hamams with more than 2 baths.	20,000
10.	Private Hospitals (Above 10 beds) per bed charges; (provided that bed/Bath/Wash Basin/Sink/Tap/Point etc. whichever is excess, will be considered).	2,000
11.	Private Hospitals (upto 10 beds), Clinic with Laboratory, Dispensaries, Printing Press, Dying Shops, Sweet Manufacturers and Bakeries, Milk Shops, Nickle and Polish Factories, Hamams upto two baths, Office with two baths, Chargha Houses, Small soap factories, Gujjars (having upto 20 animals), Dhobi Ghat upto two ghats, Dry Cleaners, or any other activity having two Bath.	15,000

12.	Private Schools / Colleges / Educational Institutions / Academies (per 100 students charges and for every seat slab of 100 students 20% of the consumption will be charged). General Stores, Cloth Merchants, Tailoring shops, Stationery & Hardware Shops, Electric Shops, Glass Shops, Vegetable and Meat shops, Medical Stores, Iron Godowns, Photographic Studios, Doctor's Clinic, Lawyer's Office, Property Dealers, Lohani Khans, Steel Grills Manufacturing, Lather Machines Workshops, Beauty Shops, Office with one bath, Motor Show Rooms, Barber Shops without bath, Cigarette Shops, Auto Repair Shops without service station, Bakery Shop, Burger / Shawarma shops, Libraries, Shoes Shop or any other activity having one bath.	10,000
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**IX) Outstanding Dues of Water Used by Previous Owner**

Before purchasing a property, the consumer is bound to make sure that all the dues of water supply and sewerage have been duly paid by the seller. If there are any outstanding dues of water / sewer used by previous owner, the new owner shall be responsible to pay all such dues. No excuse in this regard shall be acceptable. All the dues shall have to be cleared in any case as the consumer steps into shoes of previous owner.

**X) Responsibility for the Water Service Installation**

The water service installation from the Agency's water main to the points of water supply in a consumer's premises shall be installed by the consumer but in accordance with the regulation No 11. A water meter shall be fixed above the ground outside a consumer's premises preferably through the Agency's staff /contractor. Installation of pipe line from ferrule up to the house will be the responsibility of the consumer. He will also be responsible for the repair of service pipe and also prevent leakage of water. In case of any damage because of water leakage from service pipe, the consumer shall be considered entire responsible for it and his connection shall be disconnected without any notice, except hat; If the water service installation under the public road outside a customer's premise has any damage which is not clearly attributed to a customer, such damage shall be repaired by the Agency with no cost to a customer.

**XI) Keeping the Water Service Installation in Good Conditions**

A customer shall be responsible to keep the water service installation in good conditions at all times and, if any defect occurs thereon, shall immediately inform the Agency of it.

**PART - III**

**INSTALLATION AND MAINTENANCE OF SERVICES**

**21. Service in Good Order -**

Every consumer whose water service is connected to an Agency water main shall install, provide and at all times keep in good order and condition and free from defects, all water service pipes, fixtures and fittings thereof, upon the property and from the Agency main to such property in accordance with the regulations. Failure to do so within three days of the serving of notice shall be contravention of these Regulations.

**21-A. Water Supply and Pressure**

WASA will make its best efforts to provide water at adequate pressure but is not bound to supply water during some specified timings or at a specified pressure. If in case of unavoidable circumstances, the water supply or pressure is decreased, the consumer will not have the right to reduce the amount of water bill payable by him.

**21-B. Wastage of Drinking Water**

Consumers are required to adopt the practices of conservation of water. No drinking water should run or flow across the gates and (or) causes to accumulate on the roads due to washing of cars, floors or for any other purpose.

**22. Altered or Defective Service -**

- (1) If any such water service pipe or fitting or fixture in the opinion of the Engineer:-
  - (i) is constructed, altered, added or used otherwise than in accordance with these regulations;
  - (ii) is or becomes of bad or defective quality or construction or is choked or placed or situated in a position contrary to these regulations;
  - (iii) is required to be removed, altered, extended, cleaned, repaired or disconnected from the water main of the Agency;

- 19. The contractor shall be responsible for the design of the system of water supply to the property and shall be responsible for the design of the water supply system to the property.
- 20. The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.
- 21. The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.
- 22. The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.
- 23. The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.

**Section 10. Standard for Water Works**  
 The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property. The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.

- 24. **Restrictions on Work and Water Usage**  
 A contractor shall not:
  - a. Perform any work other than that designed or authorized by the Engineer, except maintenance, construction, modification or repair, the work to be done in the course of doing and no person other than the Engineer or authorized personnel shall interfere with the work in compliance with the provisions contained in a water supply system of the Agency;
  - b. Interfere with the flow of water in any water supply line;
  - c. Use or suffer or permit to be used a water connection in work in any water supply system or for any purpose other than that for which it has been designed; and
  - d. Use or permit to be used any or any combination having the effect of any kind of putting the water supply system into any other condition of water.
- 25. Every lot and water connection to be installed a private water supply distribution system.
- 26. Connected to a water supply system.
- 27. Every lot and water connection to be installed a private water supply system.

**Section 11. Property Directly Connected**  
 No connection shall be permitted to connect a private water supply system to the property and no person other than the Engineer or authorized personnel shall interfere with the work in compliance with the provisions contained in a water supply system of the Agency.

**PART - III  
 SPECIFICATION FOR THE LAYING OF WATER SUPPLY PIPES AND FITTINGS**

- 28. **Excavation, Laying and Fitting**  
 The contractor shall be responsible for the design of the water supply system to the property and shall be responsible for the design of the water supply system to the property.
- 29. Proper methods and depth shall be maintained where necessary to guard against erosion during the progress of the work. The contractor is notified, the surface shall be restored as early as possible to the same condition as it was before the commencement of excavation unless the Engineer is writing otherwise requires.
- 30. Unless otherwise approved, a water service pipe for any property shall be laid up to the Agency Water of Right system, as a private system the property to be served and to laying where indicated by the Engineer.

27. **Separate Supply to Property -**

- (1) Each property shall have a separate and distinct supply from water main provided that where the Engineer approves more than one property to be supplied from one water service in such a manner as the Engineer may determine.
- (2) If a property is divided into two portions, each portion should have separate water & sewerage connection. In case the second connection is not got approved from the engineer it may be considered as illegal connection and rules and regulations for the illegal connection will be applicable on it

28. **Pipe Through Foul Material -**

No person shall lay any water service pipe or fitting through any sewer, drain, ash pit, cesspool or manure pit or through, in or into any place where in any event the water supplied by the Agency through such pipe or fitting shall be liable to be polluted or to escape without observation unless such pipe or fitting be laid to the satisfaction of the Engineer through a conduit of cast iron, or other approved material of sufficient length and strength to effort adequate protection to the same and to facilitate the detection of any leakage of water or unless in the case of water service pipe submerged in a sanitary flushing cistern or passing immediately below a waste pipe, it is to be constructed of a corrosion resistant material without seams or joints.

29. **Pipe Cover -**

- (1) Every pipe laid in the ground shall, unless it is under a flooring of permanent character, be not less than 2 feet below the surface of the road. Provided that if by reason of some obstruction it is not reasonably practicable to lay the pipe or some part of a pipe to be at a depth of 2 feet or more, that pipe or part of a pipe be at the greater depth that is reasonably practicable.
- (2) Water service in street, where the soil is loose, shall have not less than 2 feet 6 inches of cover and in hard solid material or highly surfaced streets not less than 2 feet of cover and in rock 12 inches of cover.
- (3) Water service on private property shall have not less than 12 inches of cover.

30. **Pipe Clips -**

Water service pipe shall be properly supported and secured by approved pipe hooks or clips. Wherever it is necessary to fix pipes clear of walls, approved extension clips shall be used. Every water fitting whether inside or outside a building which is so placed as to be liable to damage from impact or some other cause shall be effectively protected from such damage.

31. **Connection to Water Main -**

Every water service pipe shall be connected to the water main by means of an approved ferrule and union or by an approved bend and union. Where necessary approved saddle and clamp shall be used to connect the water service main.

32. **Location of Stop Valve -**

Except in the case of fire services, the stop valve shall be fixed near the building line and within the boundary of the property served unless the structural or other conditions are

such that it cannot be placed in such a position, in which event, it shall be placed outside the boundary of the property served but within 9 inches of the buildings line.

33. **Stop Valve on Joint Services -**

In all cases of joint water services where the stop valve is placed on private property, each house service must be separately stop valve within its own grounds in such a way that every outlet in each house can be shut off without the supply to any other houses being affected and the master valve must be fixed near the building line, in a similar position to that required for a single service.

34. **Stop Valve on Meter Inlet -**

Stop valves shall be fixed on the inlet coupling of all meters except where an existing of stop valve is, in the opinion of the Engineer, suitably placed and close enough to act as a substitute therefore.

35. **Valve on Meter Outlet -**

In any case in which there is danger of back water causing damage or being a nuisance when meters are being removed or cleaned, and in any other case ordered by the Engineer, a stop valve or reflux valve shall also be placed on the meter outlet.

35-A. **Tampering of Water Meter**

No one other than an authorized person shall handle or tamper or cause to tamper the water meter / sub-meter.

35-B. **Tampering of Water Supply System or by-passing the water meter.**

No one shall handle or tamper with water pipe, stop valve, meter, fixture, and apparatus, including any valve, fixture or any part of a water supply system or otherwise, for the purpose of causing any water meter to show incorrect readings.

36. **Stop Valve on Cistern Connection -**

Every cistern supplied with water from the Agency mains shall be stop-valved on the service of the cistern and in a convenient and accessible place. The stop valve shall be so placed that the cistern can be readily removed without closing any other valve. Where the water services is directly connected to the cistern, a union shall be furnished between the stop valve and the cistern and the joint between the stop valve and the cistern and the joint between the service and cistern shall be made water tight by the use of back nuts.

37. **Stop Valve on Renewed Cisterns -**

In all cases where cisterns on water services are being renewed and the feed pipe to the cistern is not stop valve, a stop valve, union and back nuts shall be fitted as part of the renewal operations.

38. **Stop Valve on Private Premises -**

Stop Valves shall also be fitted on any water services situated on private premises as the Engineer may direct.

39. **Stop Valves to be Accessible -**

All Stop valves fitted on water services and situated on private property shall, wherever practicable be exposed to view above the ground and be in an approved, protected and accessible position.

40. **Surface Box -**

Any stop valve fitted on a water service and situated below the surface of the ground shall be furnished with surface box and cover of approved pattern.

41. **Missing Fittings -**

In all cases where meters are being fitted or altered in position or where any renewals, alterations or repairs are being carried out on water services and any necessary stop valves, surface boxes or other fitting prescribed by the regulations do not exist, the deficiency shall be made good as part of the work.

42. **Services in Multi Story Buildings -**

In a building consisting of more than two floors:-

- (i) Every branch service at each floor shall be controlled by a stop valve, except as provided in clause (ii).
- (ii) Where two or more groups of fixtures are supplied from such a branch service each group shall be controlled by a separate stop valve; and
- (iii) Subject to the approval of the Engineer, the stop valve controlling each branch service at each floor may be omitted in cases where a vertical riser serves only one fixture or individual floor and a stop valve to control the supply is provided at the foot of such riser.

43. **Internally Fitted Stop Valve -**

A stop valve on a water service shall not be fixed internally unless a sink, lavatory basin or other approved fixture or a properly drained impervious floor is provided underneath.

44. **Stop Valve on Pipes Supplying Buildings -**

- (1) Every pipe supplying water to a building (except a pipe conveying water from one building to another building the supply to which is not separately chargeable and which is within the same boundary) shall be fitted with a stop valve inside and as near as is reasonably practicable to the point where it enters that building.
- (2) Each pipe supplying water to a part of a building to which the supply is separately chargeable shall, unless the pipe passes through that part to another such part, be fitted with a stop valve inside and as near as is reasonably practicable, to the point where the pipe enters that part.
- (3) Where a pipe supplies water to a part of a building to which the supply is separately chargeable and passes through that part to another such part, every branch pipe connected to that pipe in the first mentioned part shall be fitted with a stop valve as near as is reasonably practicable, to the point of connection.
- (4) Where a service pipe supplies water to a part of a building to which the supply is separately chargeable and passes through one or more of such parts to another, it shall be so laid that before entering the first of the parts, it passes through a place, whether inside or outside the buildings to which the occupier of each of the parts has access, and in that place the pipeline shall be fitted with a stop valve, as near as is reasonably practicable, to the point where it enters the building.
- (5) Every pipe conveying water from a building to another building the supply to which is separately chargeable and which is within the same boundary, but has no direct

...shall be of such a nature as to ensure that the water supply to the service pipe is not interrupted for a period of more than 24 hours...  
...shall be of such a nature as to ensure that the water supply to the service pipe is not interrupted for a period of more than 24 hours...  
...shall be of such a nature as to ensure that the water supply to the service pipe is not interrupted for a period of more than 24 hours...

47. **Prevention of Stop Valves -**  
Every stop valve shall be so placed that it can be readily operated by the owner or person to whom it is assigned to be operated.

48. **Supporting Service Pipes -**  
A service pipe shall be secured to the ground or be placed that its weight or its change of being loaded.

49. **Protecting Troughs -**

(1) Every service pipe supplying water to a drinking trough or drinking bowl for animals, including poultry shall be fitted with a ball valve or some other not less effective device for controlling the inflow of water so designed as to prevent overflow or a flow of tap or stop water, and every such ball valve, device, tap or stop valve shall be effectively protected from damage, contamination and unauthorised interference.

(2) Provided that this regulation shall apply in a pipe if:  
(a) The water in the pipe flows by gravity from a storage cistern, and  
(b) The trough or bowl to which the pipe supplies water is placed at such a level as to prevent overflow.

(3) No such trough or bowl shall be supplied directly by service pipe or pump delivery pipe drawing water from a service pipe unless the inlet is fixed at a distance above the top edge of the trough or bowl which:  
(a) is sufficient, having regard to the design of the trough or bowl and the use to be made of it, to prevent contamination of the water in the service pipe; and  
(b) is in no case less than 10 inches.

50. **Buried or Bunked Cisterns -**

(1) No storage cistern shall be so placed that it is in danger of being flooded.

(2) No such cistern shall be buried or sunk in the ground unless:  
(a) There is sufficient space around and beneath it for the purposes of maintenance and the detection of leakage; and

(b) Either -  
(i) it is a closed vessel with a tightly fitting access cover, bolted or screwed in position, with an air inlet and overflow pipe or pipes all suitably screened; or  
(ii) its inlet pipe discharges into the air not less than 5 inches above its top edge.

51. **Material of Storage Cisterns -**

(1) Every storage cistern shall be watertight and of adequate strength and shall be constructed of galvanized iron, steel, copper, asbestos cement, concrete, masonry or such other material as may be supplied or approved by the Engineer.

(2) Where the cistern is not made of a corrosion resistant material, it shall be effectively protected from corrosion.

**PART - V SPECIFICATION OF MATERIAL**

50. **Pipe Material -**

All water service pipes shall be of High Density Polyethylene Pipe (HDPE) conforming to IS 4427 or DIN 8074/8075 or equivalent standards of SDR 17 including PP (polypropylene) compression fitting and saddle clamp, FTA (Female Threaded Adapter), coupler, bend, tee cap, brass ferrule, including of the manufacturer approved by engineer or such other material as the Agency may from time to time approve or as may be approved in any particular case by the Engineer. (This includes FTA 25mm x 2 1/4", equal bend 25mm, tee cap 25mm, polyethylene saddle clamp including plugging of ends of polyethylene pipe).

51. **Size of Service Pipe -**

The size of service pipe shall conform to regulation 13.

52. **Quality of Material -**  
 (1) All materials, pipes bends, junctions, fittings and apparatus shall be of the best quality of their respective kinds, free from defects and of the kind or standard approved from time to time by the Agency.  
 (2) Second hand material shall be used only with the prior approval of the Engineer on the written request of the owner of the property provided that such materials comply with the requirements of the regulation with regard to conditions, type, quality, soundness and efficiency.
53. **Approved Material -**  
 No person shall use any materials in or for any work of water supply which have not been approved by the Engineer, or which do not comply with the requirements of these regulations.
54. **Pipes Under Roads and Footpaths -**  
 Where a water service is laid or renewed under a road way or footpath that part of the water service between the main and the stop valve shall be of High Density Polyethylene Pipe (HDPE) as mentioned in regulation 50 having casing of best galvanized steel tube or of such other materials as the Agency may specifically approve.
55. **Pipe and Fitting of galvanized Iron or Steel -**  
 (1) Water Service pipes of galvanized iron or steel tube, if allowed by the Engineer in special case, shall be circular in section, straight, properly galvanized, smooth, clean and free from internal flaws, blisters or other obstructions to the flow of water.  
 (2) Fitting shall be of welded or pressed iron or steel of suitable strength and formed to correct line and shape. They shall be free from internal obstructions to the flow of water.  
 (3) Galvanized iron or steel pipes and fittings, shall be screwed internally or externally with British Standard Pipe thread to provide satisfactory water tight connections.
56. **Joints and Washers -**  
 Joints and washers for use in water services shall be of the best vegetable tanned, oil dressed hydraulic leather or such other material as may be approved by the Engineer.
57. **Stop Valves -**  
 (1) Stop valves for use in water services shall be of the high pressure non rusting spindle, gate valve type, having a copper alloy body and brass or gunmetal spindle and shall conform to the standard adopted from time to time by the Agency.  
 (2) Spindles on water service stop valve shall be properly packed with greasy cotton or flax, such packing to be held in position by a correctly shaped gland and gland nut.  
 (3) All water service stop valves to be used below ground or in inaccessible situations shall have the bonnet secured to the body by means of a locking nut to prevent inadvertent un-screwing of the bonnet.  
 (4) Stop valves shall be clearly marked with the test pressure and the manufacturers name or identification mark.
58. **Alloy Fitting -**  
 Alloy fittings used in connection with water services shall be of new metal without the admixture of old metal or scrap.
59. **Valves, Fire Hydrants and couplings -**  
 Gate valves, reflux valves, fire hydrants and fire hose coupling shall conform to the standard approved from time to time by the Agency.
60. **Concrete -**  
 Concrete unless otherwise ordered shall consists by volume or by weight of one part Portland cement, two parts clean sharp sand and four parts approved hard stone not exceeding 1 ½ inch nominal gauge and shall be thoroughly and homogeneously mixed with clean water to such an extent as may be ordered or approved by the Engineer.
61. **Cement Mortar -**  
 Cement mortar unless otherwise ordered shall consist by volume or by weight of one part Portland cement and two parts clean sharp sand thoroughly mixed with an approved proportion of clean water.
62. **Cement -**  
 Cement used in connection with any work of water supply shall be Portland cement of an approved brand and shall be submitted for test if so required by the Engineer. No cement or concrete shall be used which has been mixed for longer than one hour.



## PART - VI

## PROTECTIVE MEASURES

63. **Building Services -**  
Every draw-off cock used on building services shall be provided with an approved device, so fitted and maintained as to prevent the use of such cock whilst building operations are not in progress.
64. **Support of Pipes -**  
Every pipe shall be adequately supported and shall be so arranged as to avoid any air lock or reverberation.
65. **Protection of Pipe from Corrosion and Contact with Contaminating Substances:-**
- (1) No pipe or pipe fitting shall be laid, installed or allowed to remain in or on the ground unless it is either of a corrosion resistant material or effectively protected from external corrosion.
  - (2) No pipe shall pass into or through any ash pit, manure pit, sewer, drain, cesspool or refuse chute or any manholes connected therewith.
  - (3) No pipe shall be laid, installed or allowed to remain in or on any foul soil or other substance which could cause contamination of the water in the pipe unless it is impracticable for the pipe to be elsewhere and all necessary measures are taken to avoid any risk of contaminating the water in the pipe.
  - (4) No pipe made of any material susceptible to permeation by any gas or any other substance which could cause contamination of the water in the pipe shall be laid, installed or allowed to remain in position where such permeation could reasonably be expected to occur.
- 65-A. **Offence of Contamination of Water**  
No one shall be allowed to contaminate or causes to be contaminated any water supply line or water supply system or any part of the water supply system or water itself which may with or without the intention to cause contamination or likely endanger the life of person(s).
- 65-B. **Damaging of Pipes.**  
No one shall:
- (a) willfully, negligently or recklessly damages or causes to be damaged any water supply pipe, or structure, chamber, fixture, equipment, reservoir, cistern, pump, hydrant, valve, meter, sub-meter or any part of the Agency water supply system ;
  - (b) flushes, draws off, diverts or takes water from any Agency water supply system or part of the system, unless the person is otherwise permitted under these Regulations.
  - (c) bathes, wastes or throws any rubbish or creature, dead or alive, into any Agency water supply system or part of the system; or
  - (d) trespasses on any area of a service reservoir or booster station of an Agency water supply system,
66. **Inspection of Material and Work -**
- (1) All material, pipes, fittings and apparatus shall be approved by the engineer and where required by him shall be submitted to the Agency for examination and test.
  - (2) No person shall cover up or conceal from view any underground or enclosed water service or put into use any water service until it has been inspected and approved by the Engineer.
  - (3) Every Person and his employee carrying out or engaged on or in connection with any work of water supply shall afford every reasonable facility and information to enable the Engineer to make his inspection.

## PART - VII

## TESTS

67. **Test of Pipes and Fittings -**
- (1) All pipes and fitting for use in water services shall be capable of withstanding a hydrostatic test pressure of 300 lbs. per sq. inch.
  - (2) No brass or copper alloy fitting shall be used in any water services until it has been approved by the Agency.
  - (3) The Engineer may order the application of a hydrostatic test or other test or tests as he may require or approve and such test or tests shall be applied to any water services pipe or fitting.
  - (4) The hydrostatic test shall be applied by filling the water service pipe or fitting with water, sealing all openings and by means of an approved test pump or other suitable apparatus subjecting the pipe or fitting to the specified pressure.

- (18) All instruments, including drawings, plans and other documents for inspection and approval shall be prepared by the person to whom the contract for the work under these regulations is awarded.
- (19) Every fitting of apparatus submitted for approval and being of a type or design not previously approved by the Agency, shall be accompanied by a drawing of such fitting, showing the form and the point of connection with a test fit as prescribed. The drawing and test shall constitute a full dimensional working drawing of the fitting to be submitted and shall be returned by the Agency.
- (20) In the event of such fittings or apparatus not being approved by the Agency, an additional test fit shall be required for each subsequent submission.

#### PART VIII ADDITIONAL INSTRUCTIONS

68. **Work by Engineer/Contractor**—
- (1) No person other than an Engineer / Contractor shall execute any work described in these regulations and no person shall permit any such work to be done except by Engineer / Contractor whose name is, at the time, included in the list of Engineers / Contractors.
- (2) All water pipes and fittings shall be supplied by the consumer the work of laying such pipes and fittings shall be done by an Engineer / Contractor at the cost of the consumer. The connection of a service pipe to an Agency main shall be done by an Agency Engineer or Contractor.
- (3) The connection of a service pipe to an Agency main shall be done by an Agency Engineer / Contractor.
69. **Contractor Authorities for the Connection**—
- (1) A contract to carry out plumbing work in the area of the Agency may be granted by the Engineer to any person who in his opinion is properly qualified to undertake work under these regulations and in accordance with the requirements.
- (2) The Engineer shall publish each year a list of Contractors to execute any work under these regulations.
- (3) Every contractor shall be bound at all times to observe all the provisions of these regulations and shall in case of default or negligence be liable to penalty prescribed by these regulations.
- (4) If a penalty is imposed by the Engineer, the Contract of this work will stand automatically suspended till the deposit of penalty and the name of such contractor will be deleted from the approved list of contractors until payment of such fine.
70. **Defective Work**—
- All pipes and fittings which on inspection or test are found to be defective shall be removed by the owner of the property and replaced by sound, approved pipes and fittings and all leaking or defective joints shall be made tight and good.
71. **Maintenance**—
- Every Consumer who shall execute any work in connection with water supply shall, when so directed by the Agency, make good at his own expense any defect found within twelve months of the date of completion of such work, if in the opinion of the Agency, it is due to faulty workmanship or defective material.
72. **Disconnection**—
- A water service provided by the Agency under these regulations may be cut off from the service or service line without notice if—
- (i) a consumer makes a written request that the services be disconnected at least 20 days prior to the required disconnection provided that such request is accompanied by the prescribed fee. He shall also clear all the dues before any action is taken by the Agency on his request;
- (ii) the consumer fails to pay the water charges and other allied charges within the specified time;
- (iii) in the opinion of the Engineer, temporary disconnection is essential in order to make another connection or repair, however the connection of these consumers will be restored, who have cleared all the outstanding dues of the Agency.
- (iv) it appears to the Engineer, that the supplying of water to any premises, stand posts, hydrants, etc. constitutes a danger or nuisance or has become unnecessary or is resulting in the misuse or wastage of water.
- (v) Price written notice, served on the consumer to arrange his services in accordance with the provisions of these regulations remains unattended to.
- (vi) if in the opinion of the Engineer, act(s) of the consumer is threatening to the water quality of distribution main.

- (vii) If there are more than one connections in a property and any of those is defaulter then all the other connections shall also be liable to disconnect even if payment of those is upto date.

73. **Re-Connection -**

- (1) A water service disconnected under regulation 72 (i) may be reconnected on application as application for a new connection.
- (2) A water service disconnected under regulation 72 (ii) & (iii) may be reconnected on the request of consumer and on payment of any outstanding charges and the prescribed fee.
- (3) A disconnected water service shall not be reconnected without the approval of the Engineer.
- (4) For regulation 72 (iv), (v) and (vi), the reconnection will be provided only subject to removal of the cause of disconnection.

73-A. **Illegal Reconnection**

- (1) No one shall illegally restore the disconnected water connection.
- (2) On contravention of Clause (1) the Agency may proceed for registration of case on account of stealing of water (theft of water) and equipment / fittings under the criminal law of land.

74. **Disused Services -**

Where any fixture on a water services is abolished or disused the pipes to or from such fixture shall be sealed or removed and the service pipe sealed at the point of disconnection to the satisfaction of the Engineer.

75. **Disconnected Services -**

- (1) Misused water services shall be disconnected from the Agency main in the following manners-
  - (i) in the case of a main which is not under pressure, the main stop valve shall be removed and replaced by a galvanized wrought or galvanized malleable iron crowned plug securely screwed home; or
  - (ii) in the case of a main which is under pressure, the main stop valve shall be shut down, the union or coupling nut removed and the outlet of the valve securely closed with a galvanized wrought or galvanized malleable iron cap, socket or plug;
  - (iii) in cases where a tee and valve have been inserted for the services, the disconnection shall be carried out in such manner as the Agency may direct;
  - (iv) the removal or sealing of a main valve shall be carried out under the supervision of the Engineer; and
  - (v) The removal of tees and insertion of plug where necessary shall be affected only by employees of the Agency and the cost of such work shall be charged on the property previously supplied with water by the disused service and shall be recoverable from the owner of such property of the renewed work at the time of re-connection.

- (2) In all cases of removal of water services where tapping bends exist on metal mains of more than one inch diameter, or where plug cocks are existing, such tapping bends and plug cocks shall be removed and new drilling of the main with an approved ferrule shall be made as part of the renewal work.

76. **Private Source of Water Supply -**

Private sources of water supply within the operation area of the Water and Sanitation Agency shall be subject to control, regulation and inspection by the Agency. In addition to this it shall also liable to be dealt under section 29 of LDA Act 1975.

76-A. **Standby Tube Wells -**

Only those tube wells will be considered standby which are sealed by WASA and be connected with the single delivery system according to the approved / paying discharge size, if any unit wants to use standby turbine after breaking the seal, that unit must inform WASA within 24 hours, otherwise it will be penalized.

77. **New Wells -**

No new well, water pump or another source of water for drilling purposes shall be dug, constructed or provided except with the prior sanction of the Agency. In case a person fails to get such sanctioned, the Agency shall be competent to require the owner to abandon such service in addition to levy of rates in accordance with the section 29 of LDA Act 1975.

78. **Penalties -**

Whoever contravenes any of these regulations shall be punishable as provided under Section 33 & Section 34 of LDA Act 1975.

**75-A. Procedure of complaint against contravention.**

In case of contravention of provisions of these regulations the following officers may forward a complaint to Additional Commissioner / Magistrate authorized under the law and who will decide the complaint in accordance with these regulations within 30 days.

- i. DD (Revenue)
- ii. NEN (N&M)

Any other officer authorized by the Agency of not less than BS-18.

**PART - IX Repeal****79. Repeal of Water Supply Regulations 1978**

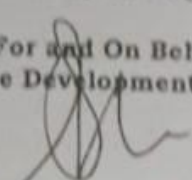
The Lahore Development Authority (Water & Sanitation Agency) Water Supply Regulations 1978 are hereby repealed.

**[LAHORE DEVELOPMENT AUTHORITY]  
CONTRACTOR TO INSTALL NEW WATER CONNECTION**

**Rules and Requirements Controlling the Contractor**

1. Before a contract is made with any person to declare him as a contractor authorized to execute work for water supply in accordance with these regulations such person must have been awarded a diploma or certificate of competence from a recognized institute and must satisfy the Engineer that:
  - (a) He is able to carry out work in AC, PVC and G.I pipe work and can make straight or branch joints in such pipes of different sized and can perform any other work usual to the trade of plumber;
  - (b) He can timber trenches in bad ground in a workman like manner;
  - (c) He can properly restore surface;
  - (d) Such a person has a suitable place of business together with a proper and sufficient stock of tools, plant and materials for the purpose of carrying on the trade or business of plumber.
2. Every contractor shall be bound to execute the work in accordance with these regulations and the directions of the Engineer.
3. Every contractor shall commence his work only to the targeted properties for which sanction / approval has been provided by the Engineers.
4. Every contractor shall afford all reasonable facilities to the Engineer for the purpose of inspection any work by such contractor or for the purpose of inspection his place of business.
5. Every contractor shall be bound not to charge rates directly to the consumer(s). However, the contractor may charge the Agency against all the work done in accordance with the set terms and conditions.
6. All pipes and fitting supplied by the consumer or otherwise shall be of the standard quality and shall correspond to the standard pipes and fittings kept with the Engineers.
7. All streets and lands excavated, damaged or broken by the contractor shall be restored to their original state, to the satisfaction of the Engineer.
8. Every contractor shall deposit the security amount with the Agency before signing the contract.
9. Every contractor shall be responsible for any damage or loss caused to any person or property through any act, omission or neglect of the contractor or his workmen and he shall be responsible for any damage to be suffered by the Agency through any fault of his workmen or himself.
10. If in the opinion of the Engineer the contractor fails to comply with any of these rules or the Water Supply Regulations or for any other reason fails to faithfully perform his duties, the Engineer may recommend the termination of contract to the authorized officer of the Agency.
11. In all cases where the Engineer orders action to be taken under Rule 09 and 10 his orders shall be final.
12. When engaged on any plumbing work or when transacting any business or making any arrangements for plumbing work every contractor shall produce on demand by an authorized person the Agreement / Identity Card issued by the Agency.
13. On no account shall a contractor sublet his work to someone else or allow any other person to undertake work on his behalf.
14. The permit orders for new connections repairs, extension of taps, moving reduction or enlargement of ferule shall always be available at the site of the work for inspection by the Engineer.

For and On Behalf of  
Lahore Development Authority

  
MANAGING DIRECTOR  
WASA, LDA, Lahore.