Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhavan, Plot no. 3, Sector-18 A, Madhya Marg, Chandigarh
Web site tcpharyana.gov.in - e-mail: tcpharyana7@gmail.com

Regd.

To

DLF Home Developers Ltd.
DLF Centre, Sansad Marg,
New Delhi-110001.

Memo No. LC-2659/JE (SB)/2024/ 4160 Dated: 02/02/24

Subject: **Approval of Service Plan/Estimate in respect to Licence No. 179 of 2023 dated 08.09.2023 granted for setting up of Commercial Plotted Colony over an area measuring 3.325 acres in the revenue estate of village Narsinghpur, Sector-74A, GMUC- DLF Home Developers Ltd.**

Kindly refer your application on the subject noted above.

The Service Plan/Estimate in respect to Licence No. 179 of 2023 dated 08.09.2023 granted for setting up of Commercial Plotted Colony over an area measuring 3.325 acres in the revenue estate of village Narsinghpur, Sector-74A, GMUC have been checked and corrected wherever necessary by the Chief Engineer, HSVP, Panchkula, are hereby approved subject to the following terms and conditions: -

1. That you will have to pay External Development Charges as a full and no deduction on account of any services proposed from other Department/from own sources by the colonizer for the time being, as EDC works for a town as a whole will have to be got executed in view of overall planning, proposed area also covered/to be covered in EDC, Gurugram, which is under finalization.
2. The category wise area shown on the plans and proposed density of population thereof has been treated to be correct for the purpose of services only.
3. That you are liable for the maintenance and upkeep of all the roads, open spaces, public park and public health services for a period of 5 years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such road, open spaces, public parks and public health services free of cost to the Government or the local authority, as the case may be.
4. The wiring system of street lighting will be under ground and the specifications of the street lighting fixture etc. will be as per relevant standard of HVPNL. LED lamps shall be provided to meet the requirement of HVPNL and as well environment.
5. It is made clear that appropriate provision for fire-fighting arrangement as required in the NBC/ISI should also be provided by you and fire safety certificate should also be obtained from the competent authority before undertaking any construction. You shall be sole responsible for fire safety arrangement.
6. That you will comply with the conditions as specified in Annexure 'A' attached with service plan/estimates.
7. The correctness of the levels of the colony will be sole responsibility of the owner for integrating the internal sewer/ storm water drainage of the colony by gravity with the master services.
8. That level/extent of external services to be provided by HSVP will be in accordance with EDC deposited. The colonizer will be fully responsible to meet the demand, to dispose of effluent and rain water till these services are provided by HSVP.
9. You shall be sole responsible for disposal of sewage of your colony as per requirement of HSPCB/Environment Deptt. till such time the external services are made available as per the

proposal of the town. All the link connections with the external services shall be made by you at your own cost after seeking approval from competent authority. There should be no pollution due to disposal of sewerage of the colony. The disposal of the effluent should be accordance to the standard norms fixed by Haryana State Pollution Board/Environment Department.

10. The estimate does not include the provision of electrification of the colony. However, it is clear that the supervision charges and O&M charges shall be paid by you directly to the HVPNL.
11. That you shall be solely responsible to lay the services upto the external services laid/to be laid by HSVP or any developing agency on Sector dividing road at respective locations/points.
12. You have proposed to utilize recycled water for flushing purposes and provision of separate flashing line, storage tank, metering system, pumping system and plumbing has been made. Therefore, it is clarified that no tap or outlet of any kind will be provided from the flushing lines/plumbing lines for recycled water except for connection to the cistern of flushing tanks and any scouring arrangement. Even ablution taps should be avoided.
    (i) Two separate distribution systems, independent to each other, will be adopted, one for potable water supply and second for recycled water. Every Home/Office/business establishment will have access to two water pipe lines.
    (ii) Potable water and recycled water supply lines will be laid on opposite berms of road. Recycled water lines will be above sewer lines. Wherever unavoidable and if all pipes are required to be laid on same side of road, these will be located from the ground surface in order of descending quality. Potable water shall be above recycled water which should be above sewer. Minimum clear vertical separation between a potable water line and a recycled water line shall be one ft, if it not possible then readily identifiable sleeve should be used.

    To avoid any accidental use of recycled water for potable purposes all:-

    (a) Recycle water pipes, fitting, appurtenances, valves, taps, meters, hydrants will be of Red Colour or painted red.
    (b) Sign and symbols signifying and clearly indicating "Recycle Water" "Not fit for Drinking" must invariably be stamped/fixed on outlets, Hydrants Valves both surface and subsurface, Covers and at all conspicuous places of recycle distribution system.
    (c) Detectable marker tapes of red colour bearing words "Recycle Water" should be fixed at suitable interval on pipes.
    (d) Octagonal covers, red in color or painted red and words "Recycle Water-Not fit for Drinking" embossed on them should be used for recycled water.
13. That it shall be mandatory to provide dual/two button or lever flushing system in toilets.
14. You shall be sole responsible for the construction of various structures such as RCC underground tank etc. according to the standard specification good quality and its workmanship. The structural stability responsibility will entirely rest upon you.
15. In case some additional structures are required to be constructed and decided by HSVP/development agency at a later stage, the same will be binding upon you. Flow of control valves will be installed preferably of automatic type on water supply connection with main water supply line, laid by developing agency or HSVP.
16. The formation level of internal road should match with sector roads. Similar other services like water supply, sewerage and SWD level etc. should be fixed in integration of levels of EDC services of water supply, sewerage and SWD etc, which shall be ensured by you.

17. In case it is decided by Govt. that HSVP/Govt. will construct 24m wide road and will extend master services on 24m wide internal circulation road, then additional amounts at rates as decided by the authority/Govt. will be recoverable over and above EDC.
18. Since, the construction of master plan is yet to take place, you will get the road level/formation level of your service fixed from the concerned Superintending Engineer, before execution.
19. This estimate does not include the common services like water supply, storage tank on the top of the building block, the plumbing works etc. will part of the building works.
20. You will have to ensure that the sewer/storm water drainage to be laid by you will be connected with the proposed existing master services by gravity. If it is not possible to connect the services by gravity, it will be your sole responsibility to make the pumping arrangement and maintenance thereof for all the time to come.
21. That you shall not make any connection with the master services i.e. water supply, sewerage, storm water drainage, without prior approval of the competent authority in writing.
22. That the detailed technical proposal/scheme shall be got approved from this office before execution of work at site.
23. The firm will provide solar water heating system as per the guidelines issued by Haryana Govt./Ministry of Environment/Govt. of India.
24. It is made clear that roof top rain harvesting system shall be provided by you as per Central Ground Water Authority norms/Haryana Govt. Notification and the same shall be kept operational/maintained all the time. The arrangement for segregation of first rain water not to be entered into the system shall also be made by you.
25. That you shall transfer the land under master plan road as well as service road to Govt./HSVP for construction of road/service road free of cost and proportionate cost for construction of service road shall also be paid by you.
26. That you shall get the electrical service plan/ estimate approved from the concerned authority regarding power utility within a period of 60 days and submit the same in this office for approval.

NOTE(1):-

In order to implement the directions given by National Green Tribunal dated 26.11.2014, 04.12.2014 and 19.01.2015 in original Application No. 21 of 2014 in the matter of Vardhman Kaushik V/s Union of India and Ors, the following instruction issued vide letter No. 2613 dated 5.3.2015 be incorporated for implementation at site as under:-

i) It shall be ensured that there should be no hot mixing on the road side. During construction and maintenance of road, it shall be also ensure that coal tar, bitumen and asphalt is brought in molten condition and same is neither burnt nor fire is put to melt these substances on open roads.
ii) The demolition material and construction material is transported with proper coverage and precautions, in order not to be cause serious air pollution.
iii) No Govt. authority, contractor, builders would be permitted to store and dump construction material or debris on the metalled road.
iv) Such storage does not cause any obstruction to the free flow of traffic and/ or inconvenience to the pedestrians. Every builder, contractor or person shall ensure that the construction material is completely covered by tarpaulin. To ensure that no dust particles are permitted to pollute the air quality as a result of such storage.

v) The builder/contractor will be responsible and ensure that their activity does not cause any air pollution during the course of the construction and/or storage of material or construction activity. Defaulter shall be liable to be prosecuted under the law in force.

vi) All trucks or vehicles of any kind which are used for construction purposes and/or are carrying construction materials like cement send and other allied material shall be fully covered dust free and/or other precautions would be taken to ensure that enroute their destination, the dust, send or other particles are not permitted to be released in the air and/or contaminate air. Any truck which is not complying with these directions would not be permitted to enter in the NCR region.

vii) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act, 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.

NOTE(2):-

Implementation of instruction used by Hon'ble NGT during hearing held on 28.4.2015 in OA No. 21 of 2014 and OA No. 95 of 2014 in the matter of Vardhman Kaushik V/s Union of India and Ors, the following instruction issued vide letter No. CEIEE-W/CHD(G)/4971-89 dated 30.4.2015 shall be complied with in the construction work as under:-

a. All the direction contained in our order dated 4th December, 2014 shall continue to be in force and the Authorities concerned would carry out the said directions in their true spirit and substance.

b. There shall be complete prohibition of burning of any kind of garbage leave, waste plastic, rubber, self-moulding compound and such other materials in the open. Any person affected or concerned would have a right to make a complaint in writing.

c. NGT further directed that all the Corporations of concerned states falling in NCR would notify on their websites, address and Mobile Number to which such complaint can be made/sent.

d. Immediately upon receipt of such complaint, the concerned Authority and for Authorities the designed Officers would proceed to take action in accordance with law.

e. For every incident of burning of any such above stated material, the person who is found actually burning such and/ or responsible for or abating such burning would be liable to pay compensation in terms of the Section 15 of the Nation Green Tribunal Act, 2010 for polluting the environment and would be liable to pay a sum Rs. 5000/- (to be paid instantaneously).

f. In the event such offender refuses to comply with the directions of the Authorized Officers, the Authorized Officers would be at liberty to serve a notice upon him for appearing before the Tribunal and to show cause why the person burning, abating or responsible for such burning materials afore indicated, be not directed to pay compensation as may be determined by the Tribunal in accordance with law.

g. The orders of the NGT are to be complied with as a decree / order of the Civil Court. All these Authorities and the Police are duty bound to carry out the directions/orders of the Tribunal in accordance with law. The money so collected, shall be maintained by the Corporation and / or any Authority as a separate fund to be utilized for improvement, restoration and restitution of the environmental degradation resulting from such activity or otherwise.

h. The payment of such compensation shall not absolve the offender of other liabilities that such person may incur under different laws in force including other provisions of the National Green Tribunal Act, 2010.

i. NGT has directed that there is no burning of leaves or horticulture residue, all the Corporations, Authorities and the State Governments to ensure that there is proper composting pits area-wise prescribed within one week from today (28.04.2015). The composting will be only at those sites and all the Corporations, Authorities and the State Governments shall be responsible to provide due space for collection and deposit of horticulture waste including leaves for composting purposes at these sites.

j. Each officer under whose jurisdictions the area would fall, would be personally responsible for imposition of compensation and costs.

k. The composition sites should be provided nearer to the places where there is large numbers of trees, gardens and compost bits which also convert into self-manure should be used for horticulture purposes to ensure that the burden on the site does not increase beyond its capacity.

l. Decision in regard the land fill sites should be taken expeditiously as possible. Such adequate number of sites if not earmarked, should be identified by the respective corporations and authorities if not done so far.

m. No one would permit the building of plastic and allied products in NCR area. if authorities notice any burning of such materials they would not only ensure that such activity does not persist, but even would be entitled to seize the entire material which is illegally and unauthorized stored/held by a person who does not possess of a license or authorization for dealing with such products in accordance with the plastic waste Management and Handling Rules, 2011. Upon seizure of such material, the authorities would take a direction from Hon'ble NGT and dispose of the same by giving it to the authorized dealer in accordance with the directions issued.

. A copy of the approved service plan/estimates is enclosed herewith. You are requested to supply three additional copies of the approved service plan/estimates to the Chief Engineer, HSVP, Panchkula under intimation to this office.

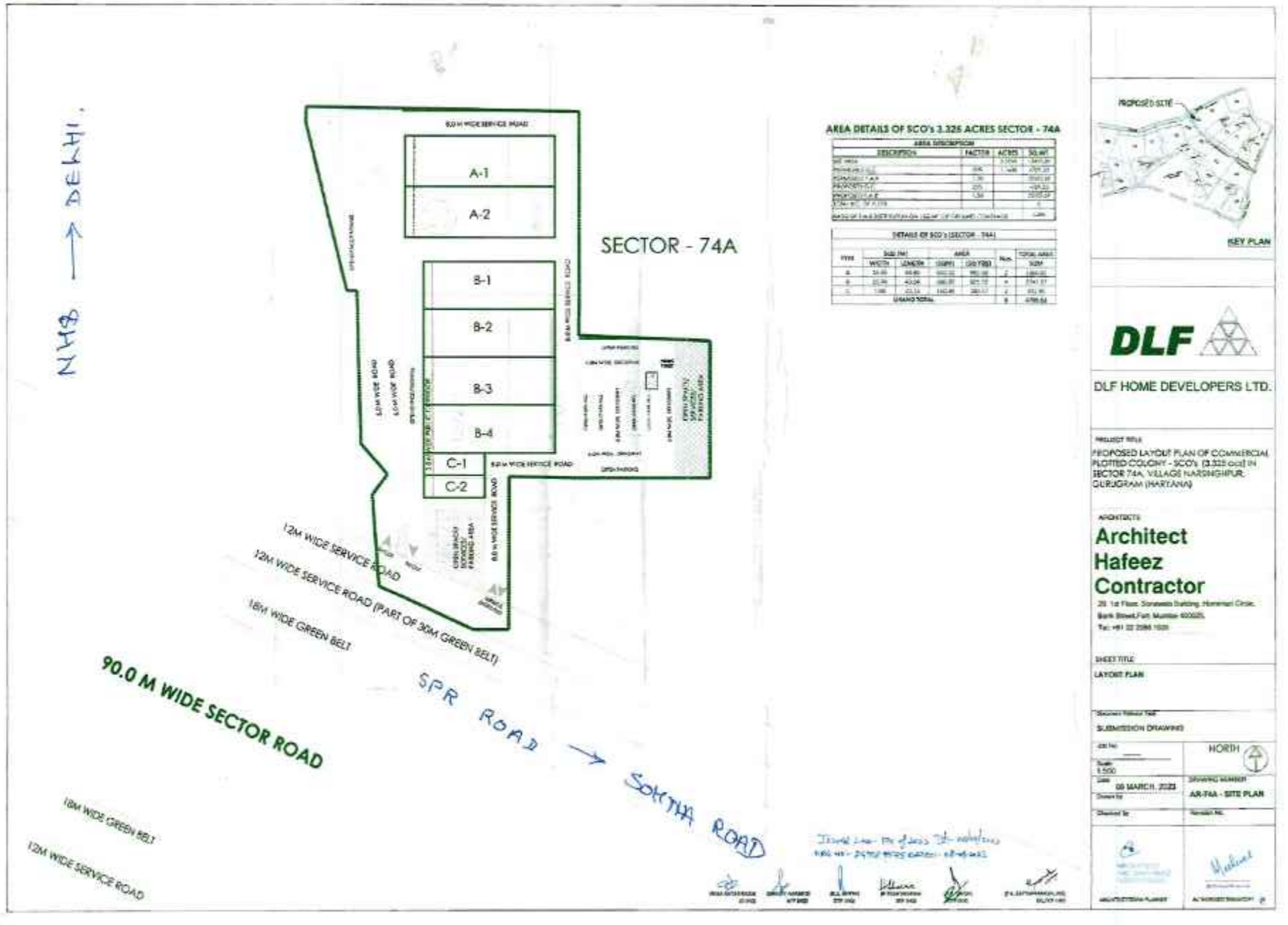
DA/As above

District Town Planner
For Director, Town & Country Planning
Haryana, Chandigarh

Endst. No LC-2659/JE(SB)/2024/ Dated:

A copy is forwarded to the Chief Engineer, HSVP, Panchkula with reference to their office memo no. CE-I/SE(HQ)/EE(M)/SDE(G)/2023/276608 dated 27.12.2023 for information and necessary action please.

District Town Planner
For Director, Town & Country Planning
Haryana, Chandigarh


NH48 → DELHI
A-1
A-2
B-1
B-2
B-3
B-4
C-1
C-2
SECTOR - 74A
12M WIDE SERVICE ROAD
12M WIDE SERVICE ROAD (PART OF 30M GREEN BELT)
18M WIDE GREEN BELT
90.0 M WIDE SECTOR ROAD
18M WIDE GREEN BELT
12M WIDE SERVICE ROAD
SPR ROAD → SOHNA ROAD
AREA DETAILS OF SCO's 3.325 ACRES SECTOR - 74A
DETAILS OF SCO's (SECTOR - 74A)
PROPOSED SITE
KEY PLAN
DLF
DLF HOME DEVELOPERS LTD.
PROPOSED LAYOUT PLAN OF COMMERCIAL PLOTTED COLONY - SCO's (3.325 acs) IN SECTOR 74A, VILLAGE NARSINGHPUR, GURUGRAM (HARYANA)
Architect Hafeez Contractor
LAYOUT PLAN
SUBMISSION DRAWING
NORTH
1:500
09 MARCH, 2023
AR-74A - SITE PLAN

FORM LC -V
(See Rule 12)
HARYANA GOVERNMENT
TOWN AND COUNTRY PLANNING DEPARTMENT

Licence No. 179 of 2023

This License has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rules 1976, made thereunder to DLF Home Developers Ltd., 1st Floor, Gateway Tower, R-Block, DLF City, Phase-III, Gurugram-122002 for setting up of Commercial Plotted Colony over an area measuring 3.325 acres in the revenue estate of village Narsinghpur falling in Sector-74A, District Gurugram.

1. The License is granted subject to the following conditions:

a) That Commercial Plotted Colony will be laid out in accordance with the approved layout plan.

b) That conditions of the agreements already executed are duly fulfilled and the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made there under are duly complied with.

c) That you shall submit the additional bank guarantee, if any required at the time of approval of Service Plans/Estimate. With an increase in the cost of construction and increase in the number of facilities in building Plan, you would be required to furnish an additional bank guarantee within 30 days on demand. It is made clear that bank guarantee of Internal Development Works/EDC has been worked out on the interim rates.

d) That area coming under the sector roads and restricted belt / green belt, if any, which forms part of licensed area and in lieu of which benefit to the extent permissible as per policy towards FAR is being granted, shall be transferred free of cost to the Govt.

e) That you shall construct portion of service road, internal circulation roads, forming the part of site area at your own cost and shall transfer the land falling within alignment of same free of cost to the Govt. u/s 3(3) (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.

f) That you have understood that the development/construction cost of 24 m/30 m major internal roads is not included in the EDC rates and you shall pay the proportionate cost for acquisition of land, if any, along with the construction cost of 24 m wide major internal roads as and when finalized and demanded by the Department.

Director General
Town & Country Planning
Haryana, Chandigarh

g) That you shall arrange electric connection from HVPNL/DHBVNL for electrification of your colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which you shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. HVPNL/DHBVNL Haryana and complete the same before obtaining completion certificate for the colony.

h) That you shall make arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available from External Infrastructure to be laid by HSVP or any other Govt. Agency.

i) That you shall submit no objection certificate/approval, as required under notification dated 14.09.2006 issued by Ministry of Environment and Forest, Govt. of India before executing development works at site, in this office.

j) That you shall maintain and upkeep all roads, open spaces and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces and public health services free of cost to the Govt. or the local authority, as the case may be in accordable with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Rules, 1976.

k) That you shall pay the labour cess charges as per Policy dated 04.05.2010.

l) That you shall provide the rain water harvesting system as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.

m) That you shall make the provision of solar water heating system as per HAREDA guidelines and shall be made operational where applicable before applying for an Occupation Certificate.

n) That you shall use only LED fittings for internal lighting as well as for campus lighting.

o) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of the Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled Bank wherein you have to deposit thirty percentum of the amount from the shop buyers for meeting the cost of Internal Development Works in the colony.

p) That you shall provide the details of calculations per Sqm/per sq ft, to the allottees while raising demand from the commercial space owners in case at the time of booking of the commercial space the IDC/EDC rates were not included and are to be charged separately as per rates fixed by Government.

q) That you shall keep pace of the construction atleast in accordance with sale agreement executed with the buyers as and when scheme is launched.

r) That you shall not give any advertisement for sale of commercial area before the approval of layout plan.

s) That you have understood that provision of External Development Facilities may take long time by HSVP, the licensee shall not claim any damages against the Department for loss occurred, if any.

t) That you shall specify the detail of calculations per Sqm/per sq ft, which is being demanded from the allottees on account of IDC/EDC, if being charged separately as per rates fixed by Govt.

u) That no pre-launch/sale of commercial site will be undertaken before approval of the layout plans.

v) That developer company, i.e. DLF Home Developers Ltd. shall be responsible for compliance of all terms and conditions of license/provisions of the Act of 1975 and Rules 1976 till the grant of Final Completion Certificate to the colony or relieved of the responsibility by the Director, Town & Country Planning, Haryana whichever is earlier.

w) That you shall permit the Director or any other officer authorized by him to inspect the execution of the layout and the development works in the colony and to carry out all directions issued by him for ensuring due compliance of the execution of the layout and development works in accordance with the license granted.

x) That you shall obey all the directions/restrictions imposed by the Department from time to time in public interest.

y) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act, 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.

z) That you shall integrate your bank account in which 70% allottee receipts are credited under Section-4(2)(l)(D) of the Real Estate Regulation and Development Act, 2016 with the on-line application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipts from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State treasury.

aa) Such 10% of the total receipts from each payment made by an allottee, which is received by the Department, shall get automatically credited, on the date of receipt in Government treasury against EDC dues of the concerned license of the colonizer.

bb) Such 10% deduction shall continue to operate till the total EDC dues get recovered from the colonizer against the said license.

cc) The implementation of such mechanism shall, however, have no bearing on the EDC installment schedule conveyed to you. You shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that the EDC installments that are due for payment get paid as per prescribed schedule.

dd) That the owner/developer shall derive maximum net profit at the rate of 15% of the total project cost of the development of the above said Commercial Plotted Colony after making provisions of the statutory taxes. In case, the net profit exceeds 15% after completion of the project period, the surplus amount shall be deposited within two months in the State Government Treasury by the Owner/Developer or they shall spend this money on further amenities/facilities in their colony for the benefit of the resident therein.

ee) That you shall take prior permission from the Divisional Forest Officer, Gurugram regarding cutting of any tree in their applied site.

ff) That you shall maintain ROW of 440 KV HT line passing through the site.

gg) That you shall submit the access permission from GMDA within a period of 30 days or before approval of Standard Designs, whichever is earlier and you shall not create any third party rights in the license till the submission of access permission.

2. The license is valid up to 07/09/2028.

(T.L. Satyaprakash, IAS)
Director General,
Town & Country Planning
Haryana, Chandigarh

Dated: 08/09/2023
Place:

Endst. No. LC-2659/JE (SB)/2023/ 29771 Dated: 08-09-2023

A copy along with a copy of schedule of land is forwarded to the following for information and necessary action: -

1. DLF Home Developers Ltd., 1st Floor, Gateway Tower, R-Block, DLF City, Phase-III, Gurugram-122002 Alongwith copy of LC-IV & Bilateral Agreement and Layout Plan.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Managing Director, HVPNL, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
5. Joint Director, Environment Haryana-Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
6. Director, Urban Estates, Haryana, Panchkula.
7. Administrator, HSVP, Panchkula.
8. Chief Engineer, HSVP, Panchkula.
9. Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
10. Land Acquisition Officer, Gurugram.
11. Senior Town Planner, Gurugram along with a copy of Layout Plan.
12. Senior Town Planner (Enforcement), Haryana, Chandigarh.
13. District Town Planner, Gurugram along with a copy of agreement & Layout Plan.
14. Chief Accounts Officer (Monitoring) O/o DGTCP, Haryana.
15. Accounts Officer, O/o DGTCP along with a copy of agreement.

(R.S. Batth)
District Town Planner (HQ)
For: Director General, Town & Country Planning
Haryana Chandigarh

To be read with License no. 179 Dated 08/09/ of 2023

Detail of land owned by DLF Home Developers Ltd

Village	Rect No.	Killa No.	Area (K-M-S)
Narsinghpur	23	19/1/1/1/1/1	3-18
		13/2/2	3-19
		8/2	2-16
		9/1/1/1	7-5
		12/2/1	5-18
		13/1	2-16
		Total	26-12

Or 3.325 acres

Director General
Town & Country Planning
Haryana, Chandigarh

PROPOSED ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENTS WORKS IN COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

DEVELOPED BY

M/s DLF HOME DEVELOPERS LTD.

PROPOSED ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENTS WORKS IN COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

DESIGN REPORT:

The proposed project is for Plotted Commercial (SCO) at Gurgaon. Everyone knows the fact why Gurgaon is developing so fast, the main reason behind it is that Gurgaon is hardly 25 to 30 KM away from Delhi. Being in the National Capital Region the Gurgaon town has fast developing tendency and potential, further Haryana Govt. has also started sharing the growing industrial/commercial load of Delhi and Faridabad. Keeping in view of the above facts Haryana Govt, has decided to establish various sectors for Institutional, Group Housing, Mall Multiplex and Commercial Complex buildings in Gurgaon. The above-mentioned commercial colony project is being developed by DLF. The client is submitting the same for your reference and approval. This report and estimate are for an area measuring approximately 3.325 Acres.

The Total Services have been designed with a view to Integrate any further extension of area with the presently licensed area under development and with master / external services to be laid by HSVP/GMDA, with the salient features given as under:

1. WATER SUPPLY SCHEME:

i) SOURCE:

The source of water supply shall be HSVP/GMDA water supply connection, water supply shall be through, and this water is potable. It has been proposed to construct underground water in this area is potable and fit for domestic & drinking purposes and at location as per drawing for the purpose of domestic and fire protection. It has been proposed to construct underground tanks of capacity as per attached details and at location for domestic purposes. The underground tanks will be fed from HSVP/GMDA supply, from there water will be pumped each plot using hydro-pneumatics pumps.

It has been proposed a centralized UGT of the total required capacity for domestic 150 KLD purpose. Provision of Firefighting static tank also been provided adjacent to Dom. UGT as recommended in the 'Manual on Water supply & Water Treatment' published by CPHEEO, Ministry of Urban Development, GOI.

ii) DESIGN:

The Water supply distribution Scheme has been designed for a total ultimate population of 3504 persons approx., for the Commercial Plots. The rate of water supply per head per day has been taken assumed as 45 liter per head per day for staff & 15 liter per head per day for visitor, D.I (Ductile Iron) pipelines have been designed on 'Hazen-William formula' with C Value of 140 & peak factor of 3.0 is considered as per the Manual & guidelines. Minimum pipe size of 100mm Dia is taken.

iii) PUMPING MACHINERY:

It has been proposed the municipal supply shall be stored in the UGT as referred in the plan of the required capacity. Through a Separate pumping system, the water shall be supplied to individual plots. Provision of pumping set as described with standby of equal capacity pumps have been considered for entire project, Provision of DG set of required capacity also been made for essential & emergency load as power-back up.

2. SEWERAGE SCHEME:

i) DESIGN OF SEWERS:

The proposed sewers have been designed by using "Manning's Formula' with running Half-full of peak flow, i.e. 3 x DWF of Domestic Water demand. It has been considered that about 80% of the Domestic Water supply shall find its way into the Sewerage system.

SW Pipe/ HDPE DWC Pipe is considered in sewerage system, and these lines are laid in such a way that the required slope (gradients) to minimum required self-cleansing velocity is maintained. The Hydraulic Design Sheets have been prepared and attached along with the Estimate.

ii) STP & Re-cycling of Treated Effluent:

It is also proposed to install 1 no STP of required Cap. 80 KLD at appropriate location in the Project and Treated effluent from this STP shall be used in Horticulture/ Washing, etc. Surplus Treated effluent is taken to discharge into existing HSVP/GMDA Sewerage System.

Provision of uPVC/ HDPE Distribution lines are taken for flushing purpose of plots Horticulture from this STP Treated Effluent Tank. The Estimate is prepared accordingly.

3. STORM WATER DRAINAGE SCHEME:

It is proposed to lay underground piped storm water drainage system with RCC NP-2 pipes. In order to improve the ground water table/sub soil aquifer, It is proposed to harvest the storm run-off in to Rain Water Harvesting Structures which are proposed with de-silting chambers for Pre-Filtration along the SWD System, so that maximum rain water is harvested into the sub-soil aquifer and the surplus/ overflow run–off shall

be taken & connected to existing HSVP/GMDA S W Drain System. This will also minimize pumping requirements of storm run-off from the colony to HSVP/GMDA SW Drain. For design of piped SWD system, the intensity of rainfall has been taken as **6.25mm per hour** and SWD pipes have been designed as running – full of Manning 's formula. A minimum size of 400 mm I /d RCC pipe has been proposed. The estimate has been framed accordingly. The Hydraulic Design Sheets have been prepared and attached along with the Estimate.

IV. ROADS:

Roads have been proposed in the colony as per an approved layout plan of the colony with road levels & road gradients designed to achieve smooth flow of traffic to & fro as well.

Necessary provisions have been made in the estimate accordingly as per revised specifications for roads by HSVP/GMDA.

VI. HORTICULTURE:

Estimate includes the necessary provisions for plantation, landscaping, signage's etc.

VII. SPECIFICATIONS:

The work will be carried out in accordance with the standard specifications as laid down by HSVP/GMDA

VIII. RATES:

The estimate has been prepared on the rates as per recently approved estimates by HSVP/GMDA.

IX. COST:

The total cost of the "Internal Development Works" including cost of all services works out to **Rs. ~~471.58~~ 516.84 Lacs** (@ Rs.~~141.83~~ 153.63 Lacs / acre) including 3 % contingencies & PE charges, and 49% administrative, price escalation & other unforeseen charges.

Please note that this estimate is based on the information available to us at this stage. Any changes or additional requirements may impact on the estimate at the time of Completion certificate.

For **M/S DLF HOME DEVELOPERS LTD.**

Authorized signatory

	DESIGN CALCULATION		For COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, GURUGRAM,				
	Daily water requirement						
		Total Plots	Total FAR	Population	Total Population	Water demand / day/ person (in liters)	Total Water Demand (in KLD)
	Ground Floor						
	Staff		~~4735.77~~ 4749.53	10 % of 3Sqm/Person	158	45	7.10
	Visitors		~~4735.77~~	90 % of 3Sqm/Person	~~1421~~ 1413	15	~~21.31~~ 21.20
	1st floor						
	Staff		~~3986.34~~ 3866.54	10 % of 6Sqm/Person	66	45	2.99
	Visitors	8	~~3986.34~~	90 % of 6Sqm/Person	~~598~~ 581	15	~~8.97~~ 8.72
	Typ. Floor (2nd,3rd & 4th flo						
	Staff		~~11461.58~~ 1165.62	10Sqm/Person	1145	45	51.52
	Visitors		11461.58	10% of total staff of offices	116	15	1.72
	Total	8	**20183.69**		~~3504~~ 3476		93.67
1	**Therefore Total Populations**				~~3504~~ 3476	**Nos**	
	Total daily Water requirement for 45 liter per head per day for staff & 15 liter per head per day for visitor,		@		93.67	**KLD**	

	Total 1 =				93.67	KLD	
2	Area under Parks				0.50	Acre	
	Daily water requirement		@		25.00	kl/acre/day	
	Therefore daily water requirement				12.475	kl/day	
	Total 2 =				12.47	**KL**	
I	**Total daily requirement**						
a)	For (1)				93.67	KL	
b)	Area under Parks				12.470	KL	
	Total Daily Requirement				~~106.14~~ 105.62	**KL**	
	Total Domestic Water requirement@25 liter for staff		34150 ~~34261.40~~		~~34.26~~ 34.15	KLD	
	Total Domestic Water requirement@5 liter for visitors		10550 ~~10686.489~~		10.55 ~~10.67~~	KLD	
			Say Total Domestic water demand =		~~44.93~~	**KLD**	Say 45KL
	Total Flushing Water requirement@20 liter for staff		27320 ~~27409.12~~		~~27.41~~ 27.32	KLD	
	Total Flushing Water requirement@10 liter for visitors		21100 ~~21332.878~~		~~21.33~~ 21.10	KLD	
			Say Total Flushing water demand =		~~48.74~~ 48.42	**KLD**	Say 50KL
			Total Recycled water demand =		~~61.21~~ 60.92	**KLD**	Say 65KL
			incl flush				
II	**Underground Tank**						
a	Daily requirement for domestic use and other except fire fighting		=		45.0 ~~44.93~~	KLD	
b	Capacity of under ground tank storage except fire fighting	taking 60%	=		27.0 ~~44.93~~	KLD	
		Say	=		30.0 ~~50.00~~	KLD	
c	Fire Tank Capacity as / NBC Code 100 sqrt(P) =100 sqrt (3.5)x1/3		=		62.39	KLD	
		Say	=		**100.00**	KLD	
		Total (b+c)			130.0 ~~150.00~~	**KLD**	
				Say	~~150.00~~ 130	**KLD**	

				130			
	It is proposed to provide 1 no. under ground tank of capacity **~~150~~ KLD** which also includes **100 KL** capacity for **fire fighting**.						
	Tank will have compartments, one for fire, one for domestic use. The water first enters the fire compartment, then over flows to the domestic water use compartment so that the water in the fire compartment shall remain fresh.						
	It is proposed to provide under ground tank of following capacity						
a)	Capacity of Fire tank-01				**100.00**	KLD	
b)	Capacity of Domestic tank- (including 1 No. x 25KL Raw + 1 No. x 25 KL Domestic Tank, Total = 50 KLD)				**50.00**	KLD	
c)	Flushing Tank (Horticulture + Flushing), THE FLUSHING TANK IN STP Taking Storage = 60 L. = 39 KL				**61.21** 65 KL	KLD	
				Say	**~~65.00~~** 40 KL	**KLD**	
	BOOSTING MACHINERY (Domestic water)						
	UG. Tank				45.0		
	Daily requirement for domestic use			=	~~44.93~~	KLD	
	Assuming 8 hours running, 2 pumps (1 Working +1 standby)						
	Discharge/hour			=	5.62	KL/HR	
				=	93.66	LPM	
				Or Say	100.00	LPM	Each
	Head of pump						
i)	Suction lifts			=	4.00	m	
ii)	Friction loss in M<main & specials			=	4.00	m	
iii)	Clear head			=	15.00	m	
iv)	Residual head			=	20.00	m	
				=	43.00	m	
	Say			=	45.00	m	
	HP of motor (100*45*1)/(60*75*0.6)			=	1.67	HP	
				Or Say	2.00	HP	Each
IV	**Gen Set**	Nos.	HP				
	Pumps for Domestic Water S	1	2.0	=		2	HP
	Pumps for Flushing Water S	1	3.0	=		3	HP
	Lighting(LS)			=		3	HP
				Total		8	HP
		8.0				8.95	
	or	~~71.5~~ x 0.746 x 1.50				~~9.0~~	KVA
			Say			**10.0**	KVA

I	**Sewage Treatment Plant capacity**						
	Total water requirement/day				93.62	Litres	
	Sewage flow will be 80% &				74.50 74.94	Litres	
	Add 5% for marginal factor				3.72 78.22		
	STP Capacity (Or Say)			**Say**	**80.00**	**KLD**	
VII	**STP Treated Tank**						
	Daily requirement for flushing & horticulture		=		**61.21**	KLD	
	Flushing Tank (Horticulture + Flushing), THE FLUSHING TANK IN STP		=		61.21	KLD	
		Say	=		**65.00**	KLD	
VIII	**BOOSTING MACHINERY (Flushing water)**						
	Near/In STP				65.0		
	Daily requirement for Flushing & Horticulture use	@ 60% Storage = 39kl Say 40kl		=	61.21	KLD	
	Assuming 8 hours running, 2 pumps (1 Working +1 standby)						
	Discharge/hour			=	7.65 8.125	KL/HR	
					127.52 135.41	LPM	
				Or Say	130.00 150.0	LPM	Each
	Head of pump						
i)	Suction lifts			=	4.00	m	
ii)	Friction loss in M<main & specials			=	4.00	m	
iii)	Clear head			=	15.00	m	
	Residual head			=	20.00	m	
				=	43.00	m	
	Say			=	45.00	m	
					2.22		
	HP of motor (130*45)/(60*75*0.6)			=	2.17	HP	
				Or Say	3.00	HP	

IX	**HSVP/GMDA Main Water Supply Calculation**						
I)	Required Fresh Water per Day		44.93	KL			
ii)	Supply Duration		8	Hrs			
iii)	Line Flow Rate		0.094	(Cum/min)			
iv)	Flow Velocity.		1.2	(m/sec)			
v)	Dia. Of pipe		41	mm			
vi)	Proposed line dia.		100	mm			
vii)	Length of line		30	Mtr			
viii)	Friction Head Loss mtr/1000mtr		0.97	Mtr			
ix)	Total Head Loss		0.03	Mtr			

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENTS WORKS IN COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

FINAL ABSTRACT OF COST	Amount (Lacs.) For 3.325 Acres
Sub Work 1- Water Supply	~~85.22~~ 120.69
Sub Work 2- Sewerage	~~48.07~~ 49.70
Sub Work 3- Storm water drainage	~~56.05~~ 62.19
Sub Work 4- Roads	~~147.10~~ 136.57
Sub Work 5- Street Lighting	12.76 —
Sub Work 6- Horticulture	~~7.57~~ 3.10
Sub Work 7- Maintenance of services for 10 years including resurfacing of roads after 1st 5 years & II. Phase i.e. 10 years maintenance (as per HSVP/GMDA norms)	~~114.80~~ 125.83
TOTAL	~~471.58~~ 510.84
COST PER ACRE ₹ 510.84 lacs / 3325 Acre = ₹ 153.63 lacs	~~141.83~~

Checked subject to Comments In forwarding letter No 276608 Dt 27/12/2023 and notes attached with the estimate

Executive Engineer (M) for Chief Engineer-I HSVP, Panchkula

Executive Engineer HSVP Division No. V, Gurugram

For M/S DLF HOME DEVELOPERS LTD.

Authorized Signatory

Superintending Engineer, HSVP Circle, Gurugram

Director Town & Country Planning Haryana, Chandigarh

WATER SUPPLY HEAD(Abstract of cost Sub-Work-I)	Amount (Lacs.)
	For 3.325 Acres
Sub Head 1- Head Works	~~21.83~~ 42.83
Sub Head 2- Pumping Machinery	~~9.80~~ 12.50
Sub Head 3- Distribution System Domestic water	10.18 as
Sub Head 4- Flushing and Irrigation scheme	13.73 as
	78.64
Total	~~55.53~~ 2.36
Add 3% contingencies & PE charges.	~~1.67~~ 81.0
TOTAL	~~57.19~~ 39.69
Add 49% Deptt.,price escalation unforeseen and administrator charges.	~~28.03~~ 120.69
TOTAL	~~85.22~~ 120.69
(CO to final abstract of cost)	

	Sub Head I						Water Supply Head Works Rs.(lakhs)
S. No.	Description	Unit		Qty	Rate		Amount
1	Construction of boosting chambers of suitable size along with under ground tank pumping machinery and generating set etc. complete in all respects.						
	Details of boosting station						
i)	construction of boosting chamber				LS		~~5~~ 5.00 ~~1.50~~
ii)	construction of UG Tank Including Fire Tank 130kl cap. incl. 10rkL cap. for fire	KL		~~150~~	5500.00		7.15 ~~8.25~~
iii)	The construction charges of Flushing water Tank near STP	KL		~~65~~ 40	5500.00		2.20 ~~3.58~~
2	Provision for carriage of material and other unforeseen items .				LS		1.00

5	Provision for boundary wall around the STP sites & water works site,cost of foothpath lawn ets.		LS		~~2.50~~ 2.88
6	Provision for facilities staff Qtrs.for Maintenance staff.		LS		7.50 ~~5.00~~
	(C.O. to abstract of cost of Sub-work No.I)		**TOTAL**		~~21.83~~
			SAY		~~21.83~~

7) Boring and Installing T.W. reserve rotary s/f Complete with pipe strainer to a depth of about 150 mtr Complete in all respect (for cleaning purposes with permission)

1 No. @ ₹ 15.0 lacs ₹ 15.0 lacs

8) Pour for Const. of T.W. chamber size 1.5 x 1.5 mtr Complete in all respect (for Raising Fwell) (L.S) ₹ 1.5 lac

₹ 42.23 lacs

	Sub Work I						Water Supply
	Sub Head No. II						Pumping Machinery Amount (Rs.) (in Lakhs)
S. No.	Description	Unit		Qty	Rate		
1	Provision for cheap pressure type chlorination plant complete.	Nos.		1	~~50000.00~~ 1.00		~~0.50~~ 1.00
2	Provision for making foundations & erection of pumping machinery.				LS		1.00
3	Provision for pipes, valves & specials inside the pump chamber.				LS		1.50
4	Provision for electric services connection including electric fittings for tubewells chambers complete. Including cost of trasfermer.				LS		2.50
5	Providing and installing centrifugal boosting Domestic pumping set, capable of delivering **100 LPM** of water at **45M** head complete in all respects. **(2HP)**						
	(1 working + 1 standby)	Nos.		2	40000.00		0.80

6	Providing and installing centrifugal boosting Flushing & irrigation pumping set, capable of delivering **130 LPM** of water at **45 M** head complete in all respects. **(3HP)**						
	(1 working + 1 standby)	Nos.		2	0.60 lac ~~50000.00~~ Doo		1.20 lacs ~~1.00~~
7	Provision of diesel generator set of each for standby arrangements for booster pump complete with gear head arrangements of following capacities(for all machinery)						
		10 per KVA		1	15000 per KVA		1.50
8	Provision for carriage of materials and other unforeseen items.				LS		1.00
9.	Providing & installing submersible pump for T.W with Special	1 no		2 Lacs			2.00
	(C.O. to abstract of cost of Sub-work No.I)					**TOTAL**	~~9.80~~ 12.50
						SAY	~~9.80~~

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	Sub Work I						Water Supply	
	Sub Head No. III						Distribution System/Rising Main	
S. No.	Description	Unit		Qty	Rate			IN LACS
1	Providing, laying, jointing & testing D.I. K-9/7 pipes including cost of excavation complete as per ISI marked. (For Domestic water supply line)							
i)	100 mm dia	M		200	1460.00			2.92
2	Providing and fixing sluice valves including cost brick masonary chambers complete in all respects.							
i)	100 mm i/d	Nos.		5	12000.00			0.60
ii)	150 mm i/d	Nos.						0.00
3	Providing, fixing and testing butterfly valves including cost of valve chambers complete in all respects.							
i)	100 mm i/d	Nos.		5	10000.00			0.50

4	Providing and fixing 100 mm dia NRV including cost of valve chambers complete in all respects.						
ii)	100 mmm dia	Nos.		2	15000.00		0.30
5	Providing and fixing air valves and scour valves including cost of valve chambers complete in all respects.	Nos.		2	10000.00		0.20
6	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.		7	2000.00		0.14
8	Provision for carriage of material & other unfoeseen items		LS				1.00
9	Provision for cutting the roads and making to its original condition		LS				1.00
10	Providing and fixing fire hydrants complete with masonary chambers.near by Community & Commercial	Nos.		9	12000.00		1.08

11	Making water supply connection with HSVP/GMDA Master Line		LS				2.00
12	Provision for rising main from HSVP/GMDA water supply line to UG Tank						
i)	150 mm dia	M		30	1460.00		0.44
	(C.O. to abstract of cost of Sub-work No.I)				**TOTAL**		**10.18**
					SAY		**10.18**

	Sub Work I						Water Supply	
	Sub Head No. IV						Flushing & Irrigation	
S. No.	Description	Unit		Qty	Rate			IN LACS
1	Providing, laying, jointing & testing D.I. K-9/7 pipes including cost of excavation complete as per ISI marked. (For Flushing water supply & irrigation supply line)							
i)	100 mm dia	M		310	1460.00			4.53
ii)	25 mm dia for Garden hydrent	M		40	300.00			0.12
iii)	32 mm dia for Garden hydrent	M		50	400.00			0.20
iv)	40 mm dia for Garden hydrent	M		0	600.00			0.00
v)	50 mm dia for Garden hydrent	M		0	750.00			0.00
2	Providing and fixing sluice valves including cost of brick mansonry chambers complete in all respect							
	100 mm dia	Nos.		5	12000.00			6.00

3	Providing & fixing 20 mm Irrigation for hydrant valve complete in all respect.	Nos.		4	5000.00		0.20
4	Providing and fixing air valves and scour taps including cost of bricks masonry chambers.	Nos.		5	10000.00		0.50
5	Provision for carriage of material & unforseen items	LS					1.00
6	Provision for cutting of roads & make is good the same.	LS					1.00
7	Provision for indicating Plate with safety box etc. complete in all respect.	Nos.		9	2000.00		0.18
	(C.O. to abstract of cost of Sub-work No.I)				**TOTAL**		**13.73**
					SAY		**13.73**

	Sub Work II						Sewerage Scheme
S. No.	Description	Unit		Qty	Rate		in Lacs
1	Providing, lowering, jointing, cutting glazed stoneware pipes grade "A" conforming to IS 651:1992/HDPE DWC Pipe and specials into trenches including cost of excavation, bed concrete lot of manholes complete.						
i)	200 mm i/d						
a)	Average depth upto 4 m	M		230	1700.00		3.91
ii)	250 mm i/d						
a)	Average depth 1.5 m to 4.5 m	M		0	2000.00		0.00
iii)	300 mm i/d						
a)	Average depth 1.5 m to 4.5 m	M		0	2400.00		0.00
2	Provision for lighting, watching and temporary diversion traffic	LS					1.00
3	Provision for cutting of roads and making good in original condition	LS					2.00

4	Provision for connection with HSVP/GMDA Master Line.	LS					1.00
5	Providing and installation of STP 80 KLD including civil tanks and all electro mechanical works.	KLD		80.00	16000.00		12.80
6	Provision for timbering & shoring, vent pipe & fixing at suitable place	LS					2.00
7	Provision for HDPE pipe from S.T.P. to HSVP/GMDA main line (over flow)						
i)	150 mm dia pipe	M		115	1460.00		1.68
8	Provision for carriage of material & unforseen items	LS					2.00
9	Providing & fixing of vent shaft at suitable place as per PH requirement.	LS					5.00
					SUB TOTAL		~~31.32~~ 32.39

		Add 3% contingencies & PE charges	0.94
			~~32.26~~ 33.36
		Add 49% Deptt.,price escalation unforeseen and administrator charges.	~~15.81~~ 16.34
		TOTAL	~~48.07~~ 49.70 Lacs
	(C.O. TO FINAL ABSTRACT OF COST ~~SUB WORK - II~~)	SAY	~~48.07~~

	Sub Work III						Storm water drainage
S. No.	Description	Unit		Qty	Rate		In Lacs
1	Providing, lowering, jointing, cutting RCC NP2 / NP3 pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.						
i)	400 mm i/d						
a)	Average depth 0.2M to 4m	M		515	2500.00		12.88
	Including Over Flow Line						
ii)	450 mm i/d						
a)	Average depth 0.2M to 4m	M		5	2700.00 ~~3000.00~~		0.15
	Including Over Flow Line						
2	Provision for road gully and drain with connection pipe			LS			2.00 ~~0.50~~
3	Provision for lighting, watching and temporary diversion of traffic.			LS			2.50

4	Provision for cutting of roads and making good in original condition.			LS			2.00
5	Construction of rain water harvesting pit of modular type as per details and specification given below, including, cost of excavation of all ind soil foundation trenches of drain including dressing of sides of ramming and getting out excavtion of soil.	Nos		3	350000.00		10.50
6	Provision for timbering & shoring			LS			1.00
7	Provision for storm water connection with HSVP/GMDA Master Line.			LS			2.00
8	Provision for carriage of material & unforseen items & Provision of temporary disposal arrangements till HSVP/GMDA services are provided.			LS			~~5.00~~ 7.50
					SUB TOTAL		~~36.53~~ 40.52
					Add 3% contingencies & PE charges		~~1.10~~ 1.22
							~~37.62~~ 41.74
					Add 49% Deptt.,price escalation unforeseen and administrator charges.		~~18.43~~ 20.45
							62.19
					TOTAL		~~56.05~~
	(C.O. TO FINAL ABSTRACT OF COST ~~SUB WORK - III~~)				**SAY**		~~56.05~~

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	Sub Work IV						Road Work
S. No.	Description	Unit		Qty	Rate		In Lacs
1	Provision for levelling and earth filling as per site conditions.	Acre		3.3250	175000.00		5.82
2	Construction of road by- Blacktop or Bituminous road						
	i) Providing GSB by 200 mm thick.						
	ii) 250 mm thick W.M.M. stone aggregate layer						~~57.75~~
	iii) 50 mm DBM.						
	iv) 30 mm thick B.C. complete in all respect.						
	Total including 6m, 8m	Sq. M		3730 3850	1500.00		55.95 lacs

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3	Miscellaneous items					
(a)	Providing for Kerbs & Channels AS PER Specification.	RMT	650	600.00		3.90
	for 3.325 ACRES					
	6m & 8m wide road 650m (650 x 2 = ~~1300~~ 650 RM)					
b	Construction of foothpath with paver block over 100mm thick cement and concrete 1.0m wide on one side of 6 m wide road = 1.0 x 342.3 = 342.30 Sqm. 8 m wide road = 1.0 x 304.50 = 304.50 Sqm. Total = 962.86 Sqm.			646.8	1000.00	6.47
4	Provision for traffic control, lighting and guide map,lighting watching etc.		LS			2.00
5	Provision for carriage of material & other unforseen items.		LS			1.00
6	Provision for plot indicator, ~~guide maps etc~~.		LS			5.00
7	Provision for demarcation etc.		LS			0.50
8	Provision for Parking & pavement in ~~Commercial~~ open area Area Cement coc. 1:4:8 + 80MM thick paver block (~~50% of total area~~)	sqm	~~1341.533~~ 1235.0		1000.00	12.35 ~~13.42~~

		SUB TOTAL	~~95.85~~ 88.99
		Add 3% contingencies & PE charges	~~2.88~~ 2.67
			~~98.73~~ 91.66
		Add 49% Deptt.,price escalation unforeseen and administrator charges.	44.91 ~~48.38~~
		TOTAL	~~147.10~~ 136.57
	(C.O. TO FINAL ABSTRACT OF COST ~~SUB WORK - IV)~~	SAY	~~147.10~~

	Sub Work V						Street Lighting
S. No.	Description	Unit		Qty	Rate		In Lacs
1	Providing street lighting on internal roads as per standerd specification of HVPNL and CFL complete in all respect AREA 3.325 ACRES						
	Provision made on L.S. cost @ Rs.2,50,000.00 per acre	Acre.		3.325	250000.00	per acres	8.31
					SUB TOTAL		**8.31**
					Add 3% contingencies & PE charges		0.25
							8.56
					Add 49% Deptt.,price escalation unforeseen and administrator charges.		4.20
					TOTAL		**12.76**
	(C.O. TO FINAL ABSTRACT OF COST ~~SUB WORK - V~~)				**SAY**		**12.76**

	Sub Work VI						Horticulture
S. No.	Description	Unit		Qty	Rate		Amount
1	Development of lawn area						In Lacs
a)	Trenching the ordinary soil upto depth of 60 cm. including removal and apcking of servicable material and disposing at the lead of 50m and making upto the tranched area to prope level by filling with earth mixed with manure before and after flooding trenches with water including cost of imported earth and manure.						
b)	Rough dressing of trenched area.						
c)	Grassing with including watering and maintenance of lawns free from weds and fit for moving in rows including for hedges, shrubs and green belt (as per HSVP/GMDA Norms)	Per acre		~~1.31~~ 0.50	150000.00		~~1.97~~ 0.75
2	Planting of trees with tree guards on roads at 6m & ~~6.5~~ 8m intervals						
	Total length of roads = ~~965~~ 650 mtr.						
	No of trees @ 12m c/c = ~~965~~ 650 x2/12 = ~~161~~ 54 nos						
	say = ~~165~~ 55 nos						

	Cost of the tree @ ~~1800~~/- each **Cost Analysis of Planting Trees** Excavation = 60.00 each Manure = ~~1~~90.00 each Tree plants = 150.00 each Tree guards = ~~1~~500.00 each Total Cost = Rs. ~~1800.00~~ per tree	Nos.		~~165~~ 55	~~1800.00~~ 2310		~~2.97~~ 1.27
					SUB TOTAL		~~4.94~~ 2.02
					Add 3% contingencies & PE charges		~~0.15~~ 0.06
							~~5.08~~ 2.08
					Add 49% Deptt.,price escalation unforeseen and administrator charges.		~~2.49~~ 1.02
							3.10
					TOTAL		~~7.57~~
	(C.O. TO FINAL ABSTRACT OF COST ~~SUB WORK - VI~~)				**SAY**		~~7.57~~

	Sub Work VII						Maintenance Charges of Road
S. No.	Description	Unit		Qty	Rate		Rs. In Lacs
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HSVP/GMDA norms after completion and resurfacing of roads after 10 years or 1st phase.	Acre		3.325	~~8~~00000.00		26.60 ~~23.28~~
2	Provision for resurfacing and strengthening of roads after 1st five years of 1st phase with 50 mm B.M. & 30 mm B.C.	Sq. M		3730 ~~3470~~	660.00		24.62 las ~~22.90~~
3	Provision for resurfacing and strengthening of road after 10 years of 2nd phase with 50 mm B.M. & 30 mm B.C.	Sq. M		3730 ~~3470~~	825.00		30.77 las ~~28.63~~
					TOTAL		~~74.80~~ 81.99
					Add 3% contingencies & PE charges		~~2.24~~ 2.46
					Sub-Total		~~77.05~~ 84.45
					Add 49% Deptt.,price escalation unforeseen and administrator charges.		~~37.75~~ 41.38
							125.83
					TOTAL		~~114.80~~
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VII)				**SAY**		~~114.80~~

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

MATERIAL OF DOMESTIC PIPE

SL NO	LINE NO		LENGTH OF PIPE	SIZE OF RISER PIPE IN MM Dia
1	UGT	1	10	100
2	1	2	20	100
3	2	3	24	100
4	3	4	27	100
5	4	5	30	100
6	4	6	80	100
	TOTAL		**191**	
	SAY		**200**	

MKG ENGINEERING SERVICES PVT. LTD. NEW DELHI

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

MATERIAL OF DOMESTIC				
SL NO	LINE NO		LENGTH OF PIPE	SIZE OF RISER PIPE IN MM Dia
1	Domestic line 1 - 2	EFH-1	6	80
2	Domestic line 3 - 4	EFH-2	18	80
3	Domestic line 4 - 5	EFH-3	4	80
4	Domestic line 4 - 5	EFH-4	18	80
5	Domestic line 4 - 6	EFH-5	64	80
6	Domestic line 4 - 6	EFH-6	48	80
7	Domestic line 4 - 6	EFH-7	6	80
8	Domestic line 4 - 6	EFH-8	3	80
9	Domestic line 4 - 6	EFH-9	47	80
	Municipal Supply Line			
1	MAIN LINE FROM HSVP/ GMDA		30	**150**

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

MATERIAL OF FLUSHING PIPE

SL NO	LINE NO		LENGTH OF PIPE	SIZE OF RISER PIPE IN MM Dia
1	STP	1	10	100
2	1	2	28	100
3	2	3	37	100
4	3	4	28	100
5	4	5	24	100
6	5	6	18	100
7	6	7	18	100
8	3	8	79	100
9	8	9	66	100
	TOTAL		**308**	
	Say		**310**	

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA						
MATERIAL OF GARDEN HYDRANT						
	FROM	**TO**	**25 MM**	**32 MM**	**40 MM**	**50 MM**
1	Flushing Line 6 - 7	GH-1	15			
2	Flushing Line 6 - 7	GH-2	15			
3	Flushing Line 8 - 9	GH-3	7			
4	Flushing Line 8 - 9	GH-4	2	50		
		TOTAL LENGTH	**39 mtr**	**50 mtr**	**0 mtr**	**0 mtr**
		Say	**40**	**50**	**0**	**0**
TOTAL GARDEN HYDRANT = 4 Nos						

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

MATERIAL STATEMENT FOR SEWER WATER LINE

SL	LINE		200 MM DIA LENGTH	250 MM DIA LENGTH	TOTAL 200,250 MM LENGTH OF LINE
NO.	From	To	METER	METER	METER
1	1	2	60.0		60
2	2	6	43.2		43
3	3	4	35.0		35
4	4	5	23.0		23
5	5	6	5.2		5
6	6	7	33.3		33
7	7a	7	19.1		19
8	7	STP	8.7		9
	TOTAL		227.50	0.00	227.50
	SAY		230.00	0.00	230.00
	STP BYPASS LINE			115 METER, 150 MM DIA	

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA .

MATERIAL STATEMENT OF STORM

SL	SW LINE		400 MM DIA PIPE	450 MM DIA PIPE	TOTAL LENGTH
NO.	From	To	LENGTH	LENGTH	OF LINE
			METER	METER	METER
1	1	2	55.2		55.2
2	2	3	42.5		42.5
3	3a	3	28.0		28.0
4	3	4	35.0		35.0
5	4a	4	33.0		33.0
6	4	5	15.0		15.0
7	5	RWH-2	8.7		8.7
8	RWH-2	6	14.1		14.1
9	6a	6	32.5		32.5
10	6	7	26.0		26.0
11	7	8	33.6		33.6
12	8	16	7.2		7.2
13	9	10	27.2		27.2
14	10	RWH-1	11.7		11.7
15	RWH-1	11	13.7		13.7
16	11	12	15.8		15.8
17	12	13	73.2		73.2
18	13	14	18.6		18.6
19	14	15	13.1		13.1
20	15	16	10.4		10.4
21	16	DC		2.2	2.2
22	DC	RWH-3		1.3	1.3
23	RWH-3	17		1.0	1.0
TOTAL (IN METERS)			**515**	**5**	**519**
SAY (IN METERS)			**515**	**5**	**520**

MKG ENGINEERING SERVICES PVT. LTD.

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

MATERIAL STATEMENT OF ROAD

8 METER WIDE ROAD

S.NO	NODE	WIDE(m)	LENGTH(m)	8 M	WIDTH Metalled	AREA in SQM
1	1-2	8	44	44	~~7~~ 5.50	~~308~~ 242
2	2-3	8	22	22	~~7~~ 5.50	~~154~~ 121
3	3-4	8	6	6	~~7~~ 5.50	~~42~~ 33
4	4-5	8	28	28	~~7~~ 5.50	~~196~~ 154
5	5-8	8	39	39	~~7~~ 5.5	~~273~~ 214.50
6	6-7	8	53	53	~~7~~ 5.5	~~371~~ 291.50
7	7-8	8	40	40	~~7~~ 5.5	280
8	8-14	8	58	58	~~7~~ 5.50	~~406~~ 319
	Total 8 M Wide Road Length =		290.00	Total 8 M Wide Road Area =		~~2030.000~~ 1595.0
Add 5% for Curve			14.50			~~101.5~~ 79.75
TOTAL			304.50			~~2131.500~~ 1674.75

6 METER WIDE ROAD

S.NO	NODE	WIDE(m)	LENGTH(m)	6 M	WIDTH Metalled	AREA in SQM
1	4-4a	6	36	36	6	~~180~~ 216
2	5-5a	6	36	36	6	~~180~~ 216
3	9-10	6	22	22	6	~~110~~ 132
4	10-11	6	16	16	6	~~80~~ 96
5	11-12	6	78	78	6	~~390~~ 468
6	13-14	6	33	33	6	~~165~~ 198
7	14-15	6	24	24	6	~~120~~ 144
8	15-16	6	40	40	6	~~200~~ 240
9	16-17	6	9	9	6	~~45~~ 54
10	17-18	6	32	32	6	~~160~~ 192
	Total 6 M Wide Road Length =		326.00	Total 6 M Wide Road Area =		~~1630.000~~ 1956.0
Add 5% for Curve			16.30			~~81.5~~ 97.80
TOTAL			342.30			~~1711.500~~ 2053.80
Total Length of 6, 8 M Wide Road			646.80	Total Area of 6, 8 M Wide Road		3728.55 ~~3843.00~~
Length SAY			650 Meters	Area Say		3730 ~~3850~~ Sqm.

open Parking area = 1232.26 Sqm

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

TITLE: WATER SUPPLY DESIGN SHEET

S.NO	Line No		PLOTS (GENERAL)			Water Requirement for Others					Gross Water Requirement (Load on Line)	Average Demand	Peak Demand @ 2.5 Times	Flow Rate	Length of Pipe	Head Loss Mtr/ Mtr	Total Head Loss	Velocity	Dia of Pipe Required	Dia of Pipe Proposed	Ground LVL at start	Hydraulic LVL at start	Head at start	Ground LVL at End	Hydraulic LVL at End	Head at End
	From	To	Area of Plot	Population	Water Requirement	Area in Acre	TYPE OF BUILDING	Basis of Water Requirement in LPD	Branch	Total Water Requirement in LPD	LPD	KLD	KLD	LPM	MTR.	MTR.	MTR.	M/SEC	MM	MM	MTR.	MTR.	MTR.	MTR.	MTR.	MTR.
1	UGT	1	0	0	0			0	93390	93390	93390	93	233	162	10	0.0015	0.01	0.344	52	100	228.92	278.92	50.00	228.92	278.91	49.99
2	1	2	303	224	5990		SCO PLOTS	5990	87400	93390	93390	93	233	162	20	0.0015	0.03	0.344	52	100	228.92	278.91	49.99	228.92	278.88	49.96
3	2	3	657	486	12990		SCO PLOTS	12990	74410	87400	87400	87	219	152	24	0.0013	0.03	0.322	51	100	228.92	278.88	49.96	228.92	278.84	49.92
4	3	4	657	486	12990		SCO PLOTS	12990	61420	74410	74410	74	186	129	27	0.0010	0.03	0.274	47	100	228.92	278.84	49.92	228.92	278.82	49.90
5	4	5	0	0	0	Public Toilet	Toilet	2000	0	2000	2000	2	5	3	30	0.0000	0.00	0.007	8	100	228.92	278.82	49.90	228.92	278.82	49.90
6	4	6	3004	2223	59420		SCO PLOTS	59420	0	59420	59420	59	149	103	80	0.0006	0.05	0.219	42	100	228.92	278.82	49.90	228.92	278.77	49.85

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

TITLE :- FLUSHING WATER SUPPLY HYDRAULIC CHART

S.N0	Line No		SCO Plots			Water Requirement for Others					Gross Water Requirement (Load on Line)	Average Demand	Peak Demand @ 2.5 Times	Flow Rate	Length of Pipe	Head Loss Mtr/ Mtr	Total Head Loss	Velocity	Dia of Pipe Required	Dia of Pipe	Ground LVL at start	Hydraulic LVL at start	Head at start	Ground LVL at End	Hydraulic LVL at End	Head at End
	From	To	Area	Population	Flushing Water Requirement	Area in Acre	TYPE OF BUILDING	Basis of Water Requirement in LPD	Branch	Total Water Requirment in LPD	LPD	KLD	KLD	LPM	MTR.	MTR.	MTR.	M/SEC	MM	MM	MTR.	MTR.	MTR.	MTR.	MTR.	MTR.
			m2																							
1	STP	1	0	0	0		SCO PLOTS	0	61200	61200	61200	61	153	106	10	0.0007	0.01	0.225	42.48	100	228.92	278.92	50.00	228.92	278.91	49.99
2	1	2	0	0	0		SCO PLOTS	0	61200	61200	61200	61	153	106	28	0.0007	0.02	0.225	42.48	100	228.92	278.91	49.99	228.92	278.89	49.97
3	2	3	0	0	0	Public Toilets	Toilet	1320	54380	55700	55700	56	139	97	37	0.0006	0.02	0.205	40.53	100	228.92	278.89	49.97	228.92	278.87	49.95
4	3	4	1343	886	12330		SCO PLOTS	12330	11982	24311	36641	37	92	64	28	0.0003	0.01	0.135	32.87	100	228.92	278.87	49.95	228.92	278.87	49.95
5	4	5	706	466	6482		SCO PLOTS	6482	5500	11982	18463	18	46	32	24	0.0001	0.00	0.068	23.33	100	228.92	278.87	49.95	228.92	278.86	49.94
6	5	6	303	200	2782	Green Area = 0.1 acres	Green Area	2500	3000	5500	8282	8	21	14	18	0.0000	0.00	0.030	15.63	100	228.92	278.86	49.97	228.92	278.86	49.94
7	6	7	0	0	0	Green Area = 0.12 acres	Green Area	3000	0	3000	3000	3	8	5	18	0.0000	0.00	0.011	9.41	100	228.92	278.86	49.94	228.92	278.86	49.94
	3	8	3003	1982	27569		SCO PLOTS	27569	2500	30069	57639	58	144	100	79	0.0006	0.05	0.212	41.23	100	228.92	278.87	49.94	228.92	278.83	49.91
9	8	9	0	0	0	Green Area = 0.1 acres	Green Area	2500	0	2500	2500	3	6	4	66	0.0000	0.00	0.009	8.59	100	228.92	278.83	49.91	228.92	278.83	49.91

MKG ENGINEERING SERVICES PVT. LTD.

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

HYDRAULIC SEWER DESIGN SHEET

S.No.	Line No.		Area of Plots	Population	Water Requirement	Type of Building	Water Requirement	Gross Water Requirement (Load on Line)	Sewage Flow (Self Load on Line) LPD	Sewage Flow (Self Load on Line) KLD	Previous Load	Prog-ressive Discharge	Prog- ressive Discharge (Average)	Prog-ressive Discharge (Peak)	Infilteration @ 25% Av. Discharge	Total Discharge	Length	Pipe size required	Pipe Size	slope	Fall	Velocity	Capacity of Pipe	Check	Road Formation level at Start	Invert Levels at Start	Road Formation level at End	Invert Levels at End	Manhole Start Depth	Manhole Depth End	Average Depth
			m2	Nos.	lpd.		Total lpd																							
	From	To						lpd.	80%	1000	Kld.	Kld.	lps.	lps.	lps.	lps.	(mtr.)	(mm)	(mm)	(mm)	(mtr.)	(m/s) (v)	lps.		(mtr.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)
1	1	2	3033	2244	59990	SCO		59990	47992	47.99	0.00	47.99	0.56	1.67	0.139	1.805	60.0	81.0	200	150	0.40	0.85	13.39	OK	228.92	227.52	228.92	227.12	1.40	1.80	1.60
2	2	6	1373	1016	27158	SCO		27158	21726	21.73	47.99	69.72	0.81	2.42	0.202	2.622	43.2	97.7	200	150	0.29	0.85	13.39	OK	228.92	227.12	228.92	226.83	1.80	2.09	1.94
3	3	4	308	228	6094	SCO		6094	4876	4.88	0.00	4.88	0.06	0.17	0.014	0.183	35.0	25.8	200	150	0.23	0.85	13.39	OK	228.92	227.52	228.92	227.29	1.40	1.63	1.52
4	4	5	0	0	0	SCO		0	0	0.00	4.88	4.88	0.06	0.17	0.014	0.183	23.0	25.8	200	150	0.15	0.85	13.39	OK	228.92	227.29	228.92	227.13	1.63	1.79	1.71
5	5	6	0	0	0	SCO		0	0	0.00	4.88	4.88	0.06	0.17	0.014	0.183	5.2	25.8	200	150	0.03	0.85	13.39	OK	228.92	227.13	228.92	226.83	1.79	2.09	1.94
6	6	7	0	0	0			0	0	0.00	74.59	74.59	0.86	2.59	0.216	2.806	33.3	101.0	200	150	0.22	0.85	13.39	OK	228.92	226.83	228.92	226.61	2.09	2.31	2.20
7	7a	7	0	0	0	Public Toilet	1320	1320	1056	1.06	0.00	1.06	0.01	0.04	0.003	0.040	19.1	12.0	200	150	0.13	0.85	13.39	OK	228.92	227.52	228.92	226.61	1.40	2.31	1.86
8	7	STP	0	0	0			0	0	0.00	75.65	75.65	0.88	2.63	0.219	2.846	8.7	101.8	200	150	0.06	0.85	13.39	OK	228.92	226.61	228.92	226.55	2.31	2.37	2.34

MKG ENGINEERING SERVICES PVT. LTD.

PROJECT : COMMERCIAL PLOTS (SCO) OVER AN AREA MEASURING 3.325 ACRES IN SECTOR – 74A, VILLAGE NURSINGHPUR, GURUGRAM, HARYANA

TITLE :- STORM WATER DRAINAGE - HYDRAULIC DESIGN CHART.

S.No	Line No.		Length in mtr.	self area in sqmtr.	Self Area (Hec)	previous area in hec.	Total Area (Hec)	Rain Fall mm/hr	Discharge @17.36 lps/Hec	Pipe dia required (mm)	Pipe dia (mm)	Slope (mm) 1 in	Velocity m/sec.	Cap of pipe in lps.	Check	Fall in line mtr.	Ground level at Start	Invert Level at Start	Ground level at End	Invert Level at End	Manhole Depth		
																					Depth at Start	Depth at End	Average Depth
1	1	2	55.2	473	0.0473	0.0000	0.0473	6.25	0.82	38.65	400	450	0.677	85.11	OK	0.12	228.92	227.72	228.92	227.60	1.20	1.32	1.26
2	2	3	42.5	2058	0.2058	0.0473	0.2531	6.25	4.39	89.41	400	450	0.677	85.11	OK	0.09	228.92	227.60	228.92	227.50	1.32	1.42	1.37
3	3a	3	28.0	1112	0.1112	0.0000	0.1112	6.25	1.93	59.26	400	450	0.677	85.11	OK	0.06	228.92	227.72	228.92	227.50	1.20	1.42	1.31
4	3	4	35.0	941	0.0941	0.3643	0.4584	6.25	7.96	120.32	400	450	0.677	85.11	OK	0.08	228.92	227.50	228.92	227.43	1.42	1.49	1.46
5	4a	4	33.0	935	0.0935	0.0000	0.0935	6.25	1.62	54.34	400	450	0.677	85.11	OK	0.07	228.92	227.72	228.92	227.43	1.20	1.49	1.35
6	4	5	15.0	770	0.0770	0.5519	0.6289	6.25	10.92	140.93	400	450	0.677	85.11	OK	0.03	228.92	227.43	228.92	227.39	1.49	1.53	1.51
7	5	RWH-2	8.7	339	0.0339	0.6289	0.6628	6.25	11.51	144.68	400	450	0.677	85.11	OK	0.02	228.92	227.39	228.92	227.37	1.53	1.55	1.54
8	RWH-2	6	14.1	564	0.0564	0.6628	0.7192	6.25	12.49	150.71	400	450	0.677	85.11	OK	0.03	228.92	227.37	228.92	227.34	1.55	1.58	1.56
9	6a	6	32.5	246	0.0246	0.0000	0.0246	6.25	0.43	27.87	400	450	0.677	85.11	OK	0.07	228.92	227.72	228.92	227.34	1.20	1.58	1.39
11	6	7	26.0	893	0.0893	0.7438	0.8331	6.25	14.46	162.21	400	450	0.677	85.11	OK	0.06	228.92	227.34	228.92	227.28	1.58	1.64	1.61
12	7	8	33.6	263	0.0263	0.8331	0.8594	6.25	14.92	164.75	400	450	0.677	85.11	OK	0.07	228.92	227.28	228.92	227.21	1.64	1.71	1.67
13	8	16	7.2	33	0.0033	0.8594	0.8627	6.25	14.98	165.06	400	450	0.677	85.11	OK	0.02	228.92	227.21	228.92	227.31	1.71	1.61	1.66
14	9	10	27.2	893	0.0893	0.0000	0.0893	6.25	1.55	53.11	400	450	0.677	85.11	OK	0.06	228.92	227.72	228.92	227.66	1.20	1.26	1.23
15	10	RWH-1	11.7	300	0.0300	0.0893	0.1193	6.25	2.07	61.38	400	450	0.677	85.11	OK	0.03	228.92	227.66	228.92	227.63	1.26	1.29	1.27
16	RWH-1	11	13.7	293	0.0293	0.1193	0.1486	6.25	2.58	68.51	400	450	0.677	85.11	OK	0.03	228.92	227.63	228.92	227.60	1.29	1.32	1.30
17	11	12	15.8	134	0.0134	0.1486	0.1620	6.25	2.81	71.53	400	450	0.677	85.11	OK	0.04	228.92	227.60	228.92	227.57	1.32	1.35	1.33
18	12	13	73.2	1634	0.1634	0.1620	0.3254	6.25	5.65	101.37	400	450	0.677	85.11	OK	0.16	228.92	227.57	228.92	227.41	1.35	1.51	1.43
19	13	14	18.6	368	0.0368	0.3254	0.3622	6.25	6.29	106.95	400	450	0.677	85.11	OK	0.04	228.92	227.41	228.92	227.36	1.51	1.56	1.54
20	14	15	13.1	550	0.0550	0.3622	0.4172	6.25	7.24	114.79	400	450	0.677	85.11	OK	0.03	228.92	227.36	228.92	227.33	1.56	1.59	1.57
21	15	16	10.4	246	0.0246	0.4172	0.4418	6.25	7.67	118.12	400	450	0.677	85.11	OK	0.02	228.92	227.33	228.92	227.31	1.59	1.61	1.60
22	16	DC	2.2	75	0.0075	1.3045	1.3120	6.25	22.78	203.56	450	500	0.695	110.54	OK	0.00	228.92	227.31	228.92	227.31	1.61	1.61	1.61
23	DC	RWH-3	1.3	70	0.0070	1.3120	1.3190	6.25	22.90	204.10	450	500	0.695	110.54	OK	0.00	228.92	227.31	228.92	227.31	1.61	1.61	1.61
24	RWH-3	17	1.0	227	0.0227	1.3190	1.3417	6.25	23.29	205.85	450	500	0.695	110.54	OK	0.00	228.92	227.31	228.92	227.31	1.61	1.61	1.61
			519.0	**3.32**																			

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हरियाणा शहरी विकास प्राधिकरण
HARYANA SHEHARI
VIKAS PRADHIKARAN

Address: C-3, HSVP , HQ Sector-6
Panchkula

CE-I No.276608
Dated:27/12/2023

Annexure-A

SUB:- Approval of service plan estimate for Commercial Plotted Colony (SCO's) over an area measuring 3.325 acres (licence no. 179 of 2023 dated 08.09.2023) in Sector-74A, Gurugram being developed by M/s DLF Home Developers Ltd.

Technical note and comments:-

1. All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution.
3. The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HSVP. All link connections with the State Government/ HSVP system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR, underground tanks, quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber *for* Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications, colonizer himself will be responsible for structural stability of all structures.
7. Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.
8. Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.

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हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI VIKAS PRADHIKARAN

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9. A minimum 100 i/d C.I/D.I, 200mm i/d SW and 400mm id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.
10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt. or HSVP. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
12. The specifications for various roads will be followed as per IRC/MORTH specifications.
13. The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

Executive Engineer (M),
for Chief Engineer-I, HSVP,
Panchkula.