

Directorate of Town and 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

GCC Infra,
P-903-905, C Wing, 9th Floor,
JMD Megapolis, Sector 48,
Gurugram-122018.

Memo no. LC-4672-B/JE(SB)/2023/ 12397 Dated: 01-05-2023

Subject: Approval of service plan estimate for Affordable Residential Plotted Colony under DDJAY area measuring 3.25 acres (licence no. 05 of 2023 dated 09.01.2023) in addition to 7.35 acres (licence no. 126 of 2022 dated 22.08.2022) total area measuring 10.625 acres in sector 88A, Gurugram-GCC Infra.

Kindly refer your application on the subject noted above.

The Service Plans/Estimates for the Affordable Residential Plotted Colony under DDJAY area measuring 3.25 acres (licence no. 05 of 2023 dated 09.01.2023) in addition to 7.35 acres (licence no. 126 of 2022 dated 22.08.2022) total area measuring 10.625 acres in sector 88A, Gurugram have been checked and corrected wherever necessary by the Chief Engineer-I, HSVP & 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 flushing 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 Color 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 color 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 Yardhman 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 sand 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, sand 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-I, HSVP, Panchkula under intimation to this office.

DA/As above


(Narender Kumar)
District Town Planner (HQ)
For Director General, Town & Country Planning
Haryana, Chandigarh
Dated:

Endst. No LC-4672-B/JE(SB)/2023/

A copy is forwarded to the Chief Engineer-I, HSVP, Panchkula with reference to his memo No. CE-I/SE(HQ)/SDE(W)/HDM(G)/2023/26892 dated 08.02.2023 for information and necessary action please.



(Narender Kumar)
District Town Planner (HQ)
For Director General, Town & Country Planning
Haryana, Chandigarh



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI
VIKAS PRADHIKARAN

Tel. : 2570982
Toll Free No. : 1800-180-3030
Website : www.hsVP.in
Email : cencrhuda@gmail.com

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

CE-I No. 26592
Dated: 08/02/2023

Annexure-A

SUB:- Approval of service plan estimate for Affordable Residential Plotted Colony (DDJAY-2016) area measuring 3.25 acres (licence no. 05 of 2023 dated 09.01.2023) in addition to 7.35 acres (licence no. 126 of 2022 dated 22.08.2022) in total area measuring 10.625 acres in Sector-88A, Gurugram being developed by M/s GCC Infra.

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.
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.

P.T.O.

SFI
SE(HQ)
7.2.2023
Q
SDE(w)



हरियाणा शहरी विकास प्राधिकरण

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Panchkula

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.

Superintending Engineer (HQ),
for Chief Engineer-I, HSVP,
Panchkula.

7.2.2023
SDEW

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

Licence No. 126 of 2022

This License has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rules 1976, made thereunder to GCC Infra, P 903-905, C Wind, 9th Floor, JMD Megapolis, Sector 48, Gurugram, 122018 for setting up of Affordable Residential Plotted Colony (DDJAY-2016) over an area measuring 7.375 acres (after migration of an area measuring 4.2875 acres from licence no. 56 of 2021 dated 20.08.2021 granted for setting up of Affordable Group Housing Colony for an area measuring 5.05 acres and a fresh applied land measuring 3.0875 acres) falling in the revenue estate of village Harsaru, Sector 88A, GMUC.

1. The particulars of the land, wherein the aforesaid Affordable Residential Plotted Colony (DDJAY-2016) is to be set up, are given in the Schedule annexed hereto and duly signed by the Director, Town & Country Planning, Haryana.
2. The License is granted subject to the following conditions:
 - i. That you will pay the Infrastructure Development Charges amounting to Rs. 1,61,17,178/- (Rs. One crore sixty One lacs Seventeen thousand One hundred Seventy Eight only) @ Rs. 500 per sq mtr for the plotted area and Rs. 1000/- for commercial component (1.50 FAR), in two equal installments. First instalment will be due within 60 days of grant of license and second instalment within six months of grant of license failing which 18% PA interest will be liable for the delayed period.
 - ii. 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.
 - iii. That you shall maintain and upkeep of all roads, open spaces, public park 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, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - iv. 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.
 - v. That you shall integrate the services with Haryana Statutory Vikas Pradhikaran services as and when made available.
 - vi. That you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the


Director
Town & Country Planning
Haryana, Chandigarh


provision of the Punjab Scheduled Roads and Controlled Area Restriction of Unregulated Development Act, 1963.

- vii. That you will transfer 10% area of the licenced colony free of cost to the Government for provision of community facilities. This will give flexibility to the Director to work out the requirement of community infrastructure at sector level and accordingly make provisions. The said area will be earmarked on the layout plan to be approved alongwith the license.
- viii. That you shall understand that the development/construction cost of 24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.
- ix. That you shall obtain ROC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- x. That you shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available and the same is made functional from External Infrastructure to be laid by Haryana Shehar Vikas Pradhikaran or any other execution agency.
- xi. That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Act, 1900 and any other clearance required under any other law.
- xii. That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- xiii. That the provision of solar water heating system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- xiv. That you shall use only LED fitting for internal lighting as well as campus lighting.
- xv. That you shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- xvi. That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC. In case of not inclusion of EDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. You shall also provide detail of calculation of EDC per Sqm/per sft. to the Allottees while raising such demand from the plot owners.
- xvii. That you shall keep pace of development atleast in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- xviii. That you shall arrange power connection from UHBVNL/DBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licensee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e.

UHBVN/DBVN/ and complete the same before obtaining completion certificate for the colony.

- xix. That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 1(ii) of the policy notified on 01.04.2016.
- xx. That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.
- xxi. That you will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 2057-5/25/2008/2TCP dated 25.02.2010.
- xxii. That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of 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 received from the plot holders for meeting the cost of Internal Development Works in the colony.
- xxiii. That no further sale has taken place after submitting application for grant of license.
- xxiv. That you shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.
- xxv. That you shall construct the access to the site upto higher order road in concurrence with the concerned authority before allotment of plot.
- xxvi. That the licensee shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed thereunder shall be followed by the applicant in letter and spirit.
- xxvii. That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- xxviii. That the owner/developer shall integrate the bank account in which 70 percent allottee receipts are credited under Section-4(2)(I)(D) of the Real Estate Regulation and Development Act, 2016 with the online application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipt from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State treasury.
- xxix. That such 10% of the total receipt from each payment made by the allottee, which is received by the Department shall get automatically credited, on the date of receipt in the Government treasury against EDC dues.
- xxx. That such 10% deduction shall continue to operate till the total EDC dues get recovered from the owner/developer.
- xxxi. The implementation of such mechanism shall, however, have no bearing on EDC installment schedule conveyed to the owner/developer. The owner/developer shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that by the EDC installments that are due for payment that paid as per the prescribed schedule.
- xxxii. That you shall abide by the terms and conditions of policy dated 08.02.2016 (DDJAY) and other direction given by the Director time to time to execute the project.
- xxxiii. That the applicant shall not encroach the revenue rasta passing through the site and shall not object for free movement.

- xxxiv. 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.
- xxxv. That you shall either submit an application for migration of balance area (Part of 24m road) of licence no. 56 of 2021 dated 20.08.2021 within three months from the issuance of licence after migration of part area or transfer the land free of cost to the Govt. in compliance of terms and conditions of the licence no. 56 of 2021.
- xxxvi. You shall take prior permission from the Divisional Forest Officer, Gurugram regarding cutting of any tree in their applied site.
3. The license is valid up to 16/08/2027.

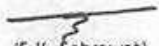

(K. Makrand Pandurang, IAS)
Director,
Town & Country Planning
Haryana, Chandigarh

Dated: The 17/08/2022.
Chandigarh

Endst. No. LC-4672/Asstt(MS)/2022/24803 Dated: 22-08-2022

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

1. GCC Infra, P 903-905, C Wind, 9th Floor, JMD Megapolis, Sector 48, Gurugram, 122018 along with a copy of LC-IV & Bilateral Agreement, Land schedule, Mortgage Deed 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 DTCP, Haryana.
15. Accounts Officer, O/o DTCP along with a copy of agreement.



(S.K. Sehrawat)
District Town Planner (HQ)
For Director, Town & Country Planning
Haryana Chandigarh

To be read with License No. 126 Dated 17/08 of 2022

Detail of land owned by GCC infra

Village	Rect. No.	Killa No.	Area (K-M)
Harsaru	55	8/2/1	2-4
		8/2/2	2-4
		9/1	4-0
		9/2	4-0
		7/2	4-1
		8/1	3-12
		5min	5-3
		6min	5-3
		7/1	3-19
		10/1	6-12
		11/2	5-14
		12	8-0
		20/1	4-8

TOTAL 59K-0M i.e. 7.375 acres



Director,
Town & Country Planning
Haryana
17/8/22

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

Licence No. 05 of 2023

This Licence has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rule 1976, made there under to GCC Infra, P-903-905, C Wing, 9th Floor, JMD Megapolis, Sector-48, Gurugram for setting up of Affordable Plotted Colony under DDJAY over an area measuring 3.25 acres (In addition to License No. 126 of 2022) in the revenue estate of village Harsaru, Sector-88A, District Gurugram Manesar Urban Complex.

1. The particulars of the land, wherein the aforesaid Affordable Residential Plotted Colony is to be set up, are given in the Schedule annexed hereto and duly signed by the Director General, Town & Country Planning, Haryana.
2. The Licence is granted subject to the following conditions: -
 - i) You will pay the Infrastructure Development Charges amounting to Rs. 71,02,485/- in two equal installments. First installment will be due within 60 days of grant of licence and second installment within six months of grant of licence failing which 18% PA interest will be liable for the delayed period.
 - ii) That the affordable residential plotted colony will be laid out in confirmation to the approved layout/building plan and development works will be executed in accordance to the designs and specifications shown in the approved plans.
 - iii) That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made thereunder are duly complied with.
 - iv) 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.
 - v) That you shall maintain and upkeep of all roads, open spaces, public park 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, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - vi) 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.
 - vii) That you shall integrate the services with Haryana Shehri Vikas Pradhikaran services as and when made available.
 - viii) That you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision of the Punjab Scheduled Roads and Controlled Area Restriction of Unregulated Development Act, 1963.



Director General
Town & Country Planning
Haryana, Chandigarh

- ix) That you will transfer 10% area of the licenced colony free of cost to the Government for provision of community facilities as per policy dated 08.02.2016 and 25.08.2022, as amended from time to time. This will give flexibility to the Director to work out the requirement of community infrastructure at sector level and accordingly make provisions. The said area will be earmarked on the layout plan to be approved alongwith the license.
- x) That you have understand that the development/construction cost of 24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.
- xi) That you shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- xii) That you shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available and the same is made functional from External Infrastructure to be laid by Haryana Shehari Vikas Pradhikaran or any other execution agency.
- xiii) That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Act, 1900 and any other clearance required under any other law.
- xiv) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- xv) That the provision of solar water heating system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- xvi) That you shall use only LED fitting for internal lighting as well as campus lighting.
- xvii) That you shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- xviii) That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC. In case of not inclusion of EDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. You shall also provide detail of calculation of EDC per Sqm/per sft. to the Allottees while raising such demand from the plot owners.
- xix) That you shall keep pace of development atleast in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- xx) That you shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licensee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL and complete the same before obtaining completion certificate for the colony.
- xxi) That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 1(ii) of the policy notified on 01.04.2016.

- xxii) That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.
- xxiii) That you shall take the commercial component in the aforesaid Residential Plotted Colony is based on 1.50 FAR as the fee and charges is levied on the basis of 1.50 FAR.
- xxiv) That you will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 2057-5/25/2008/2TCP dated 25.02.2010.
- xxv) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of 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 received from the plot holders for meeting the cost of Internal Development Works in the colony.
- xxvi) That no further sale has taken place after submitting application for grant of license.
- xxvii) That you shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.
- xxviii) That you shall construct the access to the site upto higher order road in concurrence with the concerned authority before allotment of plot.
- xxix) That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- xxx) That the owner/developer shall integrate the bank account in which 70 percent allottee receipts are credited under Section-4(2)(i)(D) of the Real Estate Regulation and Development Act, 2016 with the online application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipt from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State - treasury.
- xxxi) That such 10% of the total receipt from each payment made by the allottee, which is received by the Department shall get automatically credited, on the date of receipt in the Government treasury against EDC dues.
- xxxii) That such 10% deduction shall continue to operate till the total EDC dues get recovered from the owner/developer.
- xxxiii) The implementation of such mechanism shall, however, have no bearing on EDC installment schedule conveyed to the owner/developer. The owner/developer shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that by the EDC installments that are due for payment that paid as per the prescribed schedule.
- xxxiv) That you shall abide by the terms and conditions of policy dated 08.02.2016 (DDJAY) and other direction given by the Director time to time to execute the project.
- xxxv) 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.
- xxxvi) That you shall abide by all the provisions of Act no. 8 of 1975 and Rules framed thereunder as amended time to time.

- xxxvii) That you shall derive maximum net profit at the rate of 15% of the total project cost of the development of the above said Affordable Residential Plotted Colony under DDJAY-2016 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.
- xxxviii) That the provision of Real Estate (Regulations and Development) Act, 2016 and rules framed thereunder shall be followed letter and spirit.
- xxxix) That you shall obey all the directions/restrictions imposed by the Department from time to time in public interest.
3. That licenced land forming the part of Sector, Road, Service roads, Green belts and 24/18 mtrs wide road as the case may be land pockets which are earmarked for community sites shall be transferred within a period of 30 days in favour of Government from the date of approval of Zoning Plan, if applicable.
4. The licence is valid up to 05/01/2028.

Dated: 06/01/2023.
Place:

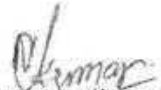

(T. L. Satyaprakash, IAS)
Director General,
Town & Country Planning
Haryana, Chandigarh

Endst. No. LC-4672-B/JE (SB)/2023/ 837

Dated: 09-01-2023

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



1. ☒ GCC Infra, P-903-905, C Wing, 9th Floor, JMD Megapolis, Sector-48, Gurugram-122018 alongwith a copy of agreement, LC-IV B, Bilateral agreement & layout plan.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
5. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
6. Joint Director, Environment Haryana Cum-Secretary, SEAC, Paryavaran Bhawan, Sector-2, Panchkula.
7. Addl. Director Urban Estates, Haryana, Panchkula.
8. Administrator, HSVP, Panchkula.
9. Chief Engineer, HSVP, Panchkula.
10. Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
11. Land Acquisition Officer, Gurugram.
12. Senior Town Planner, Gurugram alongwith layout plan.
13. District Town Planner, Gurugram along with a copy of agreement and layout plan.
14. Chief Accounts Officer O/o DTCP, Haryana, Chandigarh along with a copy of agreement.
15. Nodal Officer (Website) to update the status on the website.


(Narender Kumar)
District Town Planner (HQ)
For: Director General, Town & Country Planning
Haryana Chandigarh

To be read with License No. 05..... Dated 06/01/2023 of 2023

Detail of land owned by GCC Infra :-

Village	Rect. No.	Killa No.	Area
Harsaru	55	13	8-0
		14/1	0-9
		14/3	1-9
		15/1min	0-5
		18	8-0
		19/1	0-12
		23/3	7-5
		Total	26-0
			Or 3.25 acres


Director General
Town & Country Planning
Haryana, Chandigarh


PLOTTED DDJAY COLONY AT GURUGRAM

SUBMISSION REPORT

Estimate for providing external services i. e. water supply, sewerage and storm water drainage irrigation system for landscaping, road and street lighting for **Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.**

Report on Complex:

The proposed site for complex is located in Gurugram, Haryana. The above-mentioned housing is being developed and constructed by M/S GCC INFRA.

WATER SUPPLY:

At present the source of water supply in this area is borewell. As the underground water is potable, provision for one number of Borewells have been made in this estimate. It has been proposed to construct underground tanks of capacity as per attached details, and at location for domestic purpose. The underground tanks will be fed from the borewells and HUDA supply, from there water will be pumped to plots proposed. The water supply system has been designed as per the Hazen Willian formula.

DESIGN:

The scheme has been designed for population of approx. 3276 persons considering 18 persons for each plot. The rate of water supply per head/day has been taken as ~~135~~ ^{142.50} liters per head per day as per HUDA Norms including flushing water supply.

PUMPING EQUIPMENTS:

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any electricity failure.

SEWERAGE SCHEME:

This scheme is designed for sewer connecting to Master Sewer of HUDA Main Scheme. The Sewerage System has been marked on the respective plans.

Sewer lines have been designed for three times average D.W.F. in relation to water supply demand. It has been assumed that about ~~75%~~ ^{85%} of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft./Sec self-cleaning velocity. Sewer line up to 400 mm dia. has been designed to run half full and above 400 mm dia. has been designed to run three fourth full at peak flow. Necessary provision for laying S.W./RCC pipe sewer line, construction of required number of manholes etc., have been made in the estimate.

Necessary design statement for entire sewerage system has been prepared and attached with estimate. Manning's formula has been used on the design of sewerage system.

For GCC INFRA

Authorised Signatory



PLOTTED DDJAY COLONY AT GURUGRAM

STORM WATER DRAINAGE:

It is proposed to lay underground RCC pipe drains with required number of catch basins for disposal of storm water. The intensity of rain fall has been taken as 1/4" per hour. A minimum size of 400 mm RCC storm water line will be provided and designed as per Manning's formula.

SPECIFICATIONS:

The work will be carried out in accordance with the standard specifications of P.H. as laid down by the Haryana Govt./HUDA: *HSVP.*

Road:

Roads have been provided to above zones and estimate is prepared as per revised specifications adopted by HUDA: *HSVP.*

Street Lighting:

Provision for streets also has been made.

Horticulture:

Estimates and details of plantation, landscaping, signage, etc., has been included.

Rates:

The estimate has been prepared based on the present market rates.

Cost:

The total cost of the scheme, including cost of all services works out to be Rs. 933.12 lacs including 3% contingencies @ 49% departmental charges, *907.80* & cost/Acre comes out to be *Rs 85.44 lakh.*

For M/s. GCC Infra

For GCC INFRA

[Signature]
Authorised Signatory
Authorised Signatory



PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

SUBJECT : WATER REQUIREMENT CHART. FOR DDJAY

SR. No.	Description	Total Number of DU Units	Population factor per Plot	Total Population	Domestic Water Requirement (LCPD)	Flushing Water Requirement (LCPD)	Total Domestic Water Requirement (LPD)	Total Flushing Water Requirement (LPD)
1.	PLOTS	182	18	3276	112.13	60.38	367321.5	197788.5
2.	Commercial	1719.66sqm		@32000L/Acre	8832.81	4756.13	8832.81	4756.13
3.	Community Building	4299.7Sqm		@25000L/Acre	17260.41	9294.06	17260.41	9294.06
4.	TOTAL						393414.71	211838.69
	Say						394.00 KLD	212.00 KLD
5.	Irrigation Demand	0.8 Acres		@25000L/Acre			-	20.00 KLD
	TOTAL						394.00 KLD	232.00 KLD
6.	CAP. OF DOM. WATER SUPPLY UGT 1/2 @ 50 %		197.00	KLD				
	Say		200.0	KLD				
7.	CAP. OF FWS UGT 1/2 @ 50 %		116	KLD				
	Say		120.0	KLD				
8.	Fire Demand 100 $\sqrt{3276/1000} \times 43$		60.33	KLD				
	Say		70.0	KLD				
9.	FLOW TO SEWAGE TREATMENT PLANT							
	Total Water Requirement = (394 KLD for domestic & 212 KLD for flushing)							
i)	80% of total domestic water demand = 80% of 394 KLD			315.2	KLD			
ii)	80% of total flushing water demand = 80% of 212 KLD			169.6	KLD			
	TOTAL			484.8	KLD			
	Considering 5% margin factor			24.2	KLD			
	G. TOTAL			509.0	KLD			
	Say			510.0	KLD			

For GCC INFRA

Authorised Signatory

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

1	TUBEWELL REQUIREMENT				
a)	Total Fresh Water Demand			394	KL
b)	Tubewells				
	Yield			22	KL / Hr.
	Working hours per day			16	hrs.
	No. of tube wells required			1.12	
	Say (1.12)			1.00	Nos.
2	Pumping machinery for Tube Wells				
a)	Gross working head			70	Meter
b)	Average fall in S.L.			5	Meter
c)	Depression Head			5	Meter
d)	Friction loss in main			10	Meter
	Total			90	Meter
	Discharge			22000	LPH
	Horse Power			12.22	HP
	($HP = (22000 \times 90) / 60 \times 60 \times 75 \times 0.6$)				
	Say			12.5	HP
3	Underground Tank				
3.1	Total Domestic water demand daily			394	m3/day
i	Proposed underground tank for domestic use @ 50%.			236.40 197.13	m3/day
	Say			240 200	m3/day
3.2	Total Flushing water demand daily			232	m3/day
i	Proposed underground tank for flushing use @ 50%.			139.20 116	m3/day
	Say			140 120	m3/day
4	HUDA Main Water supply calculation				
a)	Required fresh water per day			394	m3/day
b)	Supply Duration			12	Hrs.
c)	Line flow rate			0.547	Cum / min
d)	Proposed line dia			100	mm
e)	Flow velocity			1.162	m/sec
f)	Friction head loss / 1000 m			3.84	Mtr.
g)	Length of line			125	Mtr.
h)	Total head loss			0.48	Mtr.

For GCC INFRA

 Authorised Signatory

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5	Pumps For Domestic water Supply				
	Domestic water requirement per day			394	m3/day
	Pumping Duration per day			8	hrs.
	Depth of Pump Room			5	Mtr.
	Clear head required			20	Mtr.
	Residual Pressure			5	Mtr.
	Friction head loss			15	Mtr.
	Total head			45	Mtr.
	Discharge of pump			820.83	LPM
		No. of Working Pumps		2	Nos.
		Say		410	LPM
	Power Required $(HP=(410 \times 45) / 60 \times 75 \times 0.6)$			6.84	HP
	Say			7.5	HP
	It is proposed to provide domestic water transfer pumps (2W+1S) of capacity 410 LPM each at 45 mtr. Head of 7.5 HP each pump.				
6	Pumps For Flushing water Supply				
	Flushing water requirement per day			232	m3/day
	Pumping Duration per day			8	hrs.
	Depth of Pump Room			5	Mtr.
	Clear head required			20	Mtr.
	Residual Pressure			5	Mtr.
	Friction head loss			15	Mtr.
	Total head			45	Mtr.
	Discharge of pump			483.33	LPM
		No. of Working Pumps		2	Nos.
		Say		250	LPM
	Power Required $(HP=(250 \times 45) / 60 \times 75 \times 0.6)$			4.17	HP
	Say			5.0	HP
	It is proposed to provide flushing water transfer pumps (2W+1S) of capacity 250 LPM each at 45 mtr. Head of 5.0 HP each pump.				



For GCC INFRA

Authorised Signatory

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

7	CAPACITY OF DG SETS:			
S. No.	Equipment	Qty	HP	Total HP
1	Borewell	1	12.5	12.5.00
2	Domestic Booster Pump	2	7.5	15
3	Flushing Booster Pump	2	5	10
4	External Lighting		20	20
			Total	57.5 HP

$$\text{KVA} = 57.5 \times .746 \times 1.50 = 64.35 \text{ KVA} = \text{SAY } 100 \text{ KVA}$$

It is proposed to add 100 KVA Capacity for above said machinery to the main D.G. set for plots

For GCC INFRA
[Signature]
Authorised Signatory

Project :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc.

FINAL ABSTRACT OF COST

S.No.	Description	Amount (Lacs.)
1	Sub Work - I Water Supply Distribution System & Pumping Machinery	154.53 191.08
2	Sub Work - II Sewerage Scheme	155.70 168.67
3	Sub Work - III Storm Water Drainage	77.43 98.91
4	Sub Work - IV Roads & Footpath	228.42 173.32
5	Sub Work - V Street Lighting	40.77
6	Sub Work - VI Horticulture	3.49 5.43
7	Sub Work - VII - Maintenance of Services for 10 years including resurfacing of roads after 1st 5 years & II phase i.e. 10 years of maintenance (as per HUDA norms)	286.68 229.59
	Total	933.12 947.02
	Area (Acres) - Say Rs 907.80 Lakh	8.00 907.77
	Cost Per Acre	104.84
(RUPEES Eight Crore Fifty Two Lacs Forty Two thousand only)		
Cost per Acres 907.80 / 10.625 = Rs 85.44		
Say Rs 85.44 Lacs / Acres		
Authorized Signatory		

For GCC INFRA


 Authorized Signatory


 Executive Engineer
 HSVP Division No.V,
 Gurugram


 Superintending Engineer,
 HSVP Circle, Gurugram

Checked subject to Comments
 In forwarding letter No. 98892
 Dt. 8/02/2023 and notes
 attached with the estimate


 Director General
 Town & Country Planning
 Haryana, Chandigarh


 Superintending Engineer (HQ)
 for CI
 7.2.2023
 SDE(w)

Water Supply Distribution System & Pumping Machinery	Amount (Lacs.)	
Sub head I. Water Supply (Head Works)	39.80	
Sub head II. Water Supply Pumping machinery	26.60	
Sub head III. Water Supply Distribution (Domestic & Flushing Water)	31.37	
Sub head IV. Water Supply Irrigation	2.92	
Total	100.69	
Adding 3% for Contingencies & PE Charges	3.02	
Total	103.71	
Adding 49% departmental charges & price escalation etc, Unforeseen	50.82	
Say	154.53	Lacs
C.O to final abstract of cost		

For G.C.C INFRA

 Authorised Signatory



Superintending Engineer,
 Water Supply & Sewerage Department

Director General
 Town & Country Planning
 Hyderabad

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for

FINAL ABSTRACT OF COST		
S.No.	Description	Amount (Lacs.)
1	Sub Work - I Water Supply Distribution System & Pumping Machinery	185.68
2	Sub Work - II Sewerage Scheme	168.66
3	Sub Work - III Storm Water Drainage	110.00
4	Sub Work - IV Roads & Footpath	173.32
5	Sub Work - V Street Lighting	40.77
6	Sub Work - VI - Horticulture	5.43
7	Sub Work - VII - Maintenance of Services for 10 years including resurfacing of roads after 1st 5	229.59
	Total	913.44
	Area (Acre)	10.625
	Cost Per Acre	85.97
	(RUPEES Eight Crore Ninety Four Lacs Eighty Thousand Only)	

Authorized Signatory

Sub Work - I (ABSTRACT OF COST)		
		Amount (Lacs.)
Water Supply Distribution System & Pumping Machinery		
Sub head I. Water Supply (Head Works)		46.45
Sub head II. Water Supply (Pumping machinery)		49.45
Sub head III. Water Supply (Distribution (Domestic & Flushing Water)		31.00
Sub head IV. Water Supply (Irrigation)		39.66
Total		39.67
Adding 3% for Contingencies & PE Charges		3.87
Total		4.38
Adding 49% departmental charges & price escalation etc, Unforeseen		120.99
Say		124.50
		3.63
		37.4
		124.62
		61.06
		62.84
		185.68
		191.08 Lacs
C.O to final abstract of cost		

For GCC INFRA

 Authorised Signatory

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for

Sub Work I					
Sub Head No. I			(Head Works)		
S. No.	Description	Unit	Qty	Rate	Amount (in Lacs)
1	Construction of UG tanks including pipes, valves & specials. 200 KLD (Domestic)+70 LKD (Fire) @ 5500/-per KLD.	KL	270	5500	14.85
	STP storage capacity for flushing & irrigation. 120 KLD @ 5500/-per KLD.	KL	120	5500	6.60
2	Provision for Const. of boosting chamber of suitable size as per P.H. req.	LS	-	-	5.00
3	Boring & installing tube well with rotary ring complete with 200mm dia pipe and strainer to a depth of about 120mts in all respect.	Nos.	1	1500000	15.00
4	Provision for carriage of material and unforeseen items L.S.	LS	-	100000	1.00
5	Provision of specials for tube well & rising main to UGT L.S.	LS	-	100000	1.00
6	Providing staff quarters & maint. Staff L.S.	LS	-	300000	3.00
(C.O. to Abstract of Cost of Sub Work No. I)					46.45
					Lacs

7. Provision for Const. of boundary wall around boosting chamber & T/w

L. S

3.00

49.45 Lacs

For GCC INFRA

 Authorised Signatory

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for

Sub Work I					
Sub Head No. II					
S. No.	Description	Unit	Qty	Rate	Pumping Machinery Amount (in Laes)
1	Providing Tubewell submersible pumps capacity : 22000 LPH at 90 mtr head (12.5HP) (complete in all respect)	Nos.	1	200000	2.00
2	Providing & installing electricity driven pumping set capable of delivering 410 LPM for Each Pump of water against a total head of 45 m complete with motor and other accessories (For Domestic - 7.5 HP). (2W+1S)	Nos.	3	150000	4.50
	250 LPM for Each Pump, 45 m Head, 5.0 HP for Flushing Water Transfer Pump (2W+1S)	Nos.	3	100000	3.00
3	Provision for diesel engine generator set each for standby Arrangements for booster pump complete with gear head arrangements of following capacities.				
	1 No. - 100 KVA	LS	-	1250000	12.50
4	Provision for making foundations & erection of pumping machinery.	LS	-	-	2.00
5	Provision for pipes, valves & specials inside the pump chamber.	LS	-	-	2.00
6	Provision for carriage for materials and other unforeseen items.	LS	-	-	2.00
7	Provision for Electric Service connection incl. electric fittings for T.W chaush and cost of Transformer.	LS	-	-	3.00
	(C.O. to Abstract of Cost of Sub Work No. I)				31.00
					Lacs

For GCC INFRA

 Authorized Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for						
Sub Work I			Water Supply			
Sub Head No. III			Distribution System / Rising Main			
			(Domestic & Flushing)			
S. No.	Description	Unit	Qty	Rate	Amount (in Lacs)	
1	Providing, laying, jointing and testing DI pipe lines including cost of excavation complete in all respects as per specification (DWS+FWS=970+947)					
1.1	100mm dia DI Pipe	Mtr.	1917.0	1460	27.99	
2	Providing, laying, jointing and testing pipe lines including cost of complete in all respects					
	(From HUDA supply)					
2.1	100 mm dia DI pipe line from main HSVP line to UGT.	Mtr.	212	1460	3.10	
3	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect.	Nos.	10	12000	1.20	
4	Providing and fixing air valves complete in all respect.	Nos.	4	10000	0.40	
5	Providing & fixing fire hydrant with accessories	Nos.	10	15000	1.5	
6	Providing and fixing indicating plates for sluice valves	Nos.	24	2000	0.48	
7	Provision for carriage for materials and other unforeseen items(L/S)	LS	-	-	2.00	
8	Providing for making water supply connection in HUDA (line)	LS	-	-	2.00	
9	Providing for cutting road & making good the same L.S.	LS	-	-	1.00	
(C.O. to Abstract of Cost of Sub Work No. I)					39.66	Lacs

39.67

For GCC INFRA

 Authorised Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for						
Sub Work I						
Sub Head No. IV						
S. No.	Description	Unit	Qty	Rate	Water Supply Irrigation Amount (in Laes)	
1.	Providing, laying, jointing and testing UPVC pipe line confirming to IS 4985 including cost of excavation etc. complete in all respect.					
a)	25 mm dia	Mtr.	95	300	0.29	
b)	32 mm dia	Mtr.	57	350	0.20	
c)	50 mm dia	Mtr.	133	500	0.67	
d)	65 mm dia	Mtr.	174	675	1.17	
2.	Providing and fixing 25 mm dia. Irrigation hydrant valve complete in all respect.	Nos.	15	5000	0.75	
3	Provision for indicating plate with safety box etc. complete in all respect 15 Nos. @ 2000/- each	Nos.	15	2000	0.30	
4	Providing for road cutting & making it condition as original L.S.	LS	-	-	0.50	
5	Provision for carriage of Material and other unforeseen Items	LS	-	-	0.50	
(C.O. to Abstract of Cost of Sub Work No. I)					3.87	Laes

4138

For GCC INFRA

 Authorised Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for					
Sub Work II					
S. No.	Description	Unit	Qty	Rate	Sewerage Scheme Amount (in Lacs)
1	Providing, laying and jointing SW pipes as per specifications i/c excavation, bed conc, encasement /cradle section with C.C., also i/c testing etc and construction of man holes etc complete.				
a)	200 dia pipe for depth 0 to 3.0 m	Mtr.	804	1,700	13.67
b)	Over flow line 100mm Ø GI Pipe	Mtr.	180	1,460	2.63
c)	Provision for carriage of pipes, road cuts & making good of roads.	LS	-	-	1.00
d)	Provision for vent shafts	LS	-	-	2.00
e)	Provision for centering & shuttering, shoring & barricading.	LS	-	-	1.00
f)	Provision for watch & ward & lighting etc.	LS	-	-	1.00
g)	Provision for temporary disposal arrangements	LS	-	-	5.00
h)	Providing for Making connection with HUDA Master Sewer line	LS	-	-	2.00
i)	Construction of STP Capacity 510 KLD.	KLD	510	16000	81.60
Total					109.90
Adding 3% for Contingencies & PE charges					3.30
Total					113.20
Adding 49% departmental charges & price escalation etc					55.46
Total Carry Over to Final Abstract of Cost					168.66

168.67

For GCC INFRA

 Authorised Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for					
Sub Work - III					
S. No.	Description	Unit	Qty	Rate	Storm Water Drain Amount (in Lacs)
1	Providing, laying and jointing S & S RCC, NP3 pipes with rubber ring joints as per specifications i/c excavation bed & cradle section cove, also manholes & testing etc complete.				
	400 dia RCC pipes Class NP 3	Mtr.	1058.00	2500	26.45
2	Provision for rain water harvesting arrangement complete in all respect.	Nos.	8.00	350000	28.00
3	Provision for road gully & pipe with connection.	LS	-	-	5.00
4	Provision of lighting & watching.	LS	-	-	1.00
5	Provision for timbering & shoring	LS	-	-	1.00
6	Provision for carriage of material, cutting of roads & other unforeseen items	LS	-	-	1.00
7	Provision of making connection with HSVP storm water drain.	LS	-	-	2.00
Total					64.45
Adding 3% for Contingencies & P. E. Charges					1.93
Total					66.38
Adding 49% departmental charges+price escalation					32.53
G. Total					98.91
Say					98.91 Lacs
					110.00 Lacs

For GCC INFRA

 Authorised Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for					
Sub Work IV					
S. No.	Description	Unit	Qty	Rate	Road Work Amount (in Laes)
1	Provision for leveling+earth filling compaction as per specification as per site conditions	Acre	10.625	175000	18.59
2	Construction of roads by .				
i	Construction of roads by .				
	providing granular sub base 200 mm as per MORT & H cs conforming to clause 401 grading -II 400.I				
ii	Providing and laying, spreading & compacting hand broken /crushed stone aggregate to wet mix conforming to physical requirement laid in 400 of MORT & H specification n in two layers (compacting to 25mm (125+125mm) by taking material 1:32 times of the (thickness of the layer) including premixing of material with water in mechanical mixer.				
iii	50 mm thick DBM				
iv	30 mm thick BC	Sq. mtr.	4350	1500	65.25
3	Provision of kerbs and channels with C.C 1.5:3 complete in all respects	Mtr.	1582	600	9.49
4	Provision for making approach and pavement to each block of building	LS	-	-	5.00
5	Cost of Parking / Pavement for Commercial area 50% area with 80mm thick paved over 100mm thick CC 1:4:8.	Sq. mtr.	859.8265	1000	8.60
6	Provision for guide maps, Plot indicators & demarcating burgee.	LS	-	-	3.00
7	Provision for carriage of materials & other unforeseen item	LS	-	-	2.00
8	Provision for traffic arrangement.	LS	-	-	1.00
Total					112.93
Add 3% contingencies and P E charges					3.39
Total					116.32
Add 49% departmental charges, price escalation. Unforeseen admn					57.00
Total Carry over to final abstract of cost					173.32
					Lacs

For GCC INFRA

 Authorized Signatory

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Estimate For Providing Internal Services e.g. Water Supply, Sewerage & Storm Water Drainage etc. in respect of proposed site for

Sub Work V					
S. No.	Description	Unit	Qty	Rate	Street Lighting Amount (in Laes)
1	Providing street lighting on roads as per standard specifications of HVPN approx. 10.625 acres	Acre	10.625	250000	26.56
	Add 3% contingencies and PE Charges				0.80
	Total				27.36
	Add 49% Departmental charges, Price Escalation, Unforeseen Adm.				13.41
	Total Carry Over to Final Abstract of Cost				40.77 Laes
Sub Work VI					
S. No.	Description	Unit	Qty	Rate	Horticulture Amount (in Laes)
1	Development of lawn area				
a	Trenching the ordinary soil upto depth of 60 cm. Including removal & packing of serviceable material & disposing at a lead of 50 M and making up the trenched area to proper level by filling with earth mixed with manure before & after flooding trench with water including cost of imported earth & manure.				
b	Rough dressing of trenched area.				
c	Grassing including watering & maintenance of lawns free from weeds & fit for mowing in rows including hedges, shrubs & green belts (as per HUDA Norms)				
	0.797 acres @ Rs. 1.50 lacs / acre.	Acre	0.797	150000	1.20
2	Provision of trees, guards and planting trees along road at 12M intervals. (753 / 12 = 62.75) x 2 = 125.5 Nos.)	Nos.	130	1800	2.34
				Total	3.54
	Add 3% contingencies and PE Charges				0.11
				Total	3.65
	Add 49% Departmental charges, Price Escalation, Unforeseen Adm.				1.78
	Total Carry Over to Final Abstract of Cost			Total	5.43 Laes
Sub Work VII					
S. No.	Description	Unit	Qty	Rate	Maintenance Charges & Resurfacing Amount (in Laes)
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation & establishments charges as per HUDA norms after completion & resurfacing of roads after 10 years or 1st phase.				
	10.625 acres @ 8 lacs per acre	Per Acre	10.625	800000	85.00
2	Provision for resurfacing & strengthening of road after five years of 1st phase with 50mm BM & 30mm BC	Sq. mtr.	4350	660	28.71
3	Provision for resurfacing & strengthening of road after ten years of 2 nd phase with 50mm BM & 30mm BC	Sq. mtr.	4350	825	35.89
				Total	149.60
	Add 3% contingency & PE charges				4.49
				Total	154.09
	Add 49% Departmental charges, Price Escalation, Unforeseen Adm.				75.50
	Total Carry Over to Final Abstract of Cost			Total	229.59 Laes

For GCC INFRA

 Authorised Signatory

DESIGN CHART SHOWING OF DOMESTIC WATER SUPPLY SYSTEM

S No.	Line		Average Load in LTR			Peak Flow(lpm)	Dia (mm)	Velocity (m/s)	Length (m)	Equivalent length for bends & tee(m)	Friction loss in m/100	Total friction loss in m	Ground level(m)		HGL(m)		Head(m)	
	From	To	Self	Additional	Progressive								Start	End	Start	End	Start	End
1.	U.G.T	W1	0	357085	357085	992	150	0.935	5	6	0.550	0.033	99.42	99.42	124.42	124.38	25.00	24.97
2.	W1	W2	0	357085	357085	992	150	0.935	30	33	0.550	0.182	99.42	101.49	124.38	124.20	24.97	22.71
3.	W2	W3	0	187552	187552	521	100	1.105	25	28	1.206	0.338	101.49	101.49	124.20	123.86	22.71	22.37
4.	W3	W4	8073	179479	187552	521	100	1.105	43	47	1.206	0.567	101.49	99.60	123.86	123.30	22.37	23.70
5.	W4	W5	18164	52475	70639	196	100	0.416	47	52	0.206	0.107	99.60	99.42	123.30	123.19	23.70	23.77
6.	W5	W6	52475	0	52475	146	100	0.309	110	121	0.120	0.146	99.42	98.67	123.19	123.04	23.77	24.38
7.	W4	W7	12110	96731	108840	302	100	0.641	47	52	0.450	0.234	99.42	98.67	123.04	123.06	23.88	24.40
8.	W7	W8	41479	0	41479	115	100	0.244	88	97	0.079	0.076	98.67	99.42	123.06	122.99	24.40	23.57
9.	W7	W9	44402	10850	55252	153	100	0.326	88	97	0.132	0.128	98.67	98.42	122.99	122.86	24.32	24.44
10.	W9	W10	8832	2018	10850	30	100	0.064	44	48	0.007	0.003	98.42	98.49	122.86	122.85	24.44	24.37
11.	W10	W11	2018	0	2018	6	100	0.012	25	28	0.000	0.000	98.49	98.49	122.85	122.85	24.37	24.37
12.	W2	W12	18164	151369	169533	471	100	0.999	84	92	1.004	0.924	98.49	98.49	124.20	123.28	25.72	24.79
13.	W12	W15	10091	0	10091	28	100	0.059	18	20	0.006	0.001	98.49	98.49	123.28	123.28	24.79	24.79
14.	W12	W13	6055	135223	141278	392	100	0.832	25	28	0.722	0.202	98.49	98.49	123.28	123.07	24.79	24.59
15.	W13	W14	24219	0	24219	67	100	0.143	47	52	0.030	0.015	98.49	98.49	123.07	123.06	24.59	24.57
16.	W13	W11	111004	0	111004	308	100	0.654	244	268	0.467	1.251	98.49	98.49	123.07	121.82	24.59	23.34
										970								

357085

For GCC INFRA
Delmas
 Authorised Signatory

Design of flushing water supply system for DDAJAY

S.No	Line		Average Load in LTR			Peak	Dia	Velocity	Length	Equivalent length for bends & tee(m)	Friction	Total friction	Ground level(m)		HGL(m)		Head(m)	
	From	To	Self	Additional	Total	Flow(lpm)	(mm)	(m/s)	(m)		loss in m/100m	loss in m	Start	End	Start	End	Start	End
1	STP	F1	0	192278	192278	534	100	1.133	5	6	1.262	0.076	99.42	99.42	124.42	124.34	25.00	24.92
2	F1	F2	0	192278	192278	534	100	1.133	17	19	1.262	0.240	99.42	101.49	124.34	124.10	24.92	22.61
3	F2	F3	13041	179237	192278	534	100	1.133	46	51	1.262	0.643	101.49	101.49	124.10	123.46	22.61	23.50
4	F3	F4	18475	42383	60858	169	100	0.359	90	99	0.157	0.156	101.49	100.05	123.46	123.30	21.97	23.25
5	F4	F5	41297	1087	42383	118	100	0.250	154	169	0.082	0.138	101.49	99.60	123.30	123.16	21.81	23.56
6	F5	F6	1087	4756	5843	16	100	0.034	25	28	0.002	0.001	99.60	98.67	123.16	123.16	23.56	24.50
7	F3	F7	3260	115119	118379	329	100	0.698	24	26	0.524	0.136	98.67	98.67	123.46	123.32	24.79	24.65
8	F7	F8	9781	99904	109685	305	100	0.646	110	121	0.457	0.553	98.67	98.67	123.32	122.77	24.65	24.10
9	F8	F9	4347	95557	99904	278	100	0.589	45	50	0.386	0.193	98.67	98.67	122.77	122.57	24.10	23.91
10	F9	F10	6521	51001	57521	160	100	0.339	47	52	0.142	0.074	98.67	98.67	122.57	122.50	23.91	23.84
11	F10	F11	0	22336	22336	62	100	0.132	14	15	0.026	0.004	98.67	98.67	122.50	122.50	23.84	23.83
12	F11	F12	22336	0	22336	62	100	0.132	75	83	0.026	0.021	98.67	98.67	122.50	122.48	23.83	23.81
13	F10	F13	23909	4756	28665	80	100	0.169	75	83	0.040	0.033	98.67	98.67	122.50	122.47	23.84	23.80
14	F13	F6	4756	0	4756	13	100	0.028	44	48	0.002	0.001	98.67	98.67	122.47	122.47	23.80	23.80
15	F9	F14	0	38036	38036	106	100	0.224	10	11	0.067	0.007	98.67	98.67	122.57	122.57	23.91	23.90
16	F14	F15	38036	0	38036	106	100	0.224	148	163	0.067	0.109	98.67	98.67	122.57	122.46	23.90	23.79
17	F7	F16	5434	0	5434	15	100	0.032	18	20	0.002	0.000	98.67	98.67	123.32	123.32	24.65	24.65
									947									

For GCC INFRA

 Authorised Signatory

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MATERIAL STATEMENT (GARDENT HYDANRAT)

Node		Dia in MM	Length	Length in Mtr.			
From	To		Mtr	25 mm	32 mm	50 mm	65 mm
		25	95.0	95.0	0.0	0.0	0.0
		32	57.0	0.0	57.0	0.0	0.0
		50	133.0	0.0	0.0	133.0	0.0
		65	174.0	0.0	0.0	0.0	174.0
TOTAL			459.0	95.0	57.0	133.0	174.0

For GCC INFRA

 Authorised Signatory

Design of irrigation water Supply system for DDAJAY

S.No.	Line		Dia	Length
	From	To	(mm)	(m)
1	STP	G1	65	5
2	G1	GH-1	25	6
3	G1	G2	65	85
4	G2	G3	50	85
5	G3	G4	50	43
6	G4	GH-2	25	7
7	G4	G5	32	24
8	G5	GH-3	25	7
9	G3	G6	32	25
10	G6	G7	32	193
11	G7	G8	32	15
12	G8	GH-4	25	6
13	G8	G9	32	14
14	G9	GH-5	25	9
15	G9	G10	25	29
16	G10	GH-6	25	9

For GCC INFRA

 Authorised Signatory

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area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35
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being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

MATERIAL STATEMENT (SEWERAGE SCHEME)

Node		Diameter	Length of Pipe	Pipe Qty.
From	To	mm	mtrs.	200 dia
S1	S2	200	17.0	17.0
S2	S3	200	18.0	18.0
S3	S4	200	19.0	19.0
S4	S5	200	19.0	19.0
S5	S6	200	19.0	19.0
S6	S7	200	19.0	19.0
S7	S8	200	19.0	19.0
S8	S9	200	19.0	19.0
S9	S10	200	5.0	5.0
S11	S12	200	18.0	18.0
S12	S13	200	17.0	17.0
S13	S14	200	17.0	17.0
S14	S15	200	17.0	17.0
S15	S16	200	17.0	17.0
S17	S18	200	15.0	15.0
S18	S19	200	15.0	15.0
S19	S20	200	15.0	15.0
S20	S21	200	15.0	15.0
S21	S22	200	15.0	15.0
S22	S16	200	9.0	9.0
S16	S23	200	17.0	17.0
S23	S24	200	15.0	15.0
S24	S10	200	15.0	15.0
S10	S25	200	13.0	13.0
S25	S26	200	19.0	19.0
S26	S27	200	11.0	11.0
S28a	S28	200	15.0	15.0
S28	S29	200	15.0	15.0
S29	S30	200	15.0	15.0
S30	S30a	200	13.0	13.0
S30a	S31	200	15.0	15.0
S31	S32	200	15.0	15.0
S32	S33	200	15.0	15.0
S33	S34	200	15.0	15.0
S34	S35	200	14.0	14.0
S35	S27	200	15.0	15.0
S27	S36	250	18.0	0.0
S36	S36a	250	17.0	0.0
S36a	S37	250	14.0	0.0
S37	S38	250	15.0	0.0
S38	S38a	250	15.0	0.0
S38a	S39	250	15.0	0.0
S39	S40	250	15.0	0.0
S40	S41	250	5.0	0.0
S42	S41	200	9.0	9.0
S41	S43	250	9.0	0.0
S43	S44	250	15.0	0.0
S45	S46	200	15.0	15.0
S46	S47	200	15.0	15.0
S47	S48	200	15.0	15.0
S48	S49	200	15.0	15.0
S49	S50	200	15.0	15.0

For GCC INFRA
Deeks
Authorised Signatory

S50	S50a	200	15.0	15.0
S50a	S51	200	15.0	15.0
S51	S52	200	15.0	15.0
S52	S53	200	15.0	15.0
S53	S54	200	15.0	15.0
S54	S55	200	15.0	15.0
S55	S56	200	15.0	15.0
S56	S56a	200	15.0	15.0
S56a	S57	200	15.0	15.0
S57	S44	200	24.0	24.0
S44	S58	300	17.0	0.0
S58	S59	300	17.0	0.0
S59	S60	300	17.0	0.0
S60	S61	300	10.0	0.0
S61	S62	300	13.0	0.0
S62	STP	300	2.0	0.0
TOTAL				804.0

For
 Authority

DESIGN CHART SHOWING OF SEWERAGE SYSTEM

S.No	Line No	Length	Total Water Requirement	Sewage flow at 80% LPCD (lpd)	Peak Flow (lpd)	Peak Flow (m³/d)	Pipe Size (mm)	Slope (1 in)	Velocity (m/s)	Capacity of pipes (lps)	q/Q	va/v	Actual velocity (va)	d/D	Fall (m)	Ground Level (m)	Crown Level (m)	Invert Level (m)	Depth (m)	Type of Manhole	
1	S1	S2	17.00	6679.76	0	6679.76	16031.42418	200	1.231	38.698	0.0035	0.350	0.431	0.076	0.113	99.574	98.974	98.774	0.800	0.845	A
2	S2	S3	18.00	7072.62	6679.76	13752.5	33005.89291	200	1.231	38.698	0.010	0.366	0.450	0.084	0.113	99.506	98.861	98.661	0.800	0.887	A
3	S3	S4	19.00	7465.62	13752.5	21218.1	50923.73917	200	1.231	38.698	0.015	0.382	0.470	0.091	0.120	99.434	98.747	98.547	0.800	0.931	A
4	S4	S5	19.00	7465.62	21218.1	28083.7	68758.34971	200	1.231	38.698	0.021	0.403	0.494	0.100	0.127	99.358	98.627	98.427	0.800	1.031	A
5	S5	S6	19.00	7465.62	28083.7	36149.3	104675.8325	200	1.231	38.698	0.026	0.417	0.513	0.107	0.127	99.282	98.551	98.351	0.800	1.131	A
6	S6	S7	19.00	7465.62	36149.3	43614.9	140675.8325	200	1.231	38.698	0.031	0.431	0.533	0.115	0.127	99.206	98.474	98.274	0.800	1.231	A
7	S7	S8	19.00	7465.62	43614.9	51080.6	180675.8325	200	1.231	38.698	0.037	0.452	0.557	0.124	0.127	99.130	98.394	98.194	0.800	1.331	A
8	S8	S9	19.00	7465.62	51080.6	58546.2	220675.8325	200	1.231	38.698	0.042	0.468	0.576	0.131	0.127	99.054	98.318	98.118	0.800	1.431	A
9	S9	S10	19.00	7465.62	58546.2	66010.8	260675.8325	200	1.231	38.698	0.047	0.484	0.594	0.140	0.127	98.978	98.242	98.042	0.800	1.531	A
10	S10	S11	18.00	7072.62	6679.76	7072.62	33005.89291	200	1.231	38.698	0.052	0.500	0.614	0.149	0.127	98.902	98.166	97.966	0.800	1.631	A
11	S11	S12	18.00	7072.62	7072.62	13752.5	6679.76	200	1.231	38.698	0.057	0.516	0.638	0.158	0.127	98.826	98.090	97.890	0.800	1.731	A
12	S12	S13	17.00	6679.76	13752.5	20432.2	49037.32809	200	1.231	38.698	0.062	0.532	0.660	0.167	0.127	98.750	98.014	97.814	0.800	1.831	A
13	S13	S14	17.00	6679.76	20432.2	27112.1	65063.76228	200	1.231	38.698	0.067	0.548	0.688	0.176	0.127	98.674	97.938	97.738	0.800	1.931	A
14	S14	S15	17.00	6679.76	27112.1	33803.91	81045.3831	200	1.231	38.698	0.072	0.564	0.710	0.185	0.127	98.598	97.862	97.662	0.800	2.031	A
15	S15	S16	17.00	6679.76	33803.91	40517.6	101562.443	200	1.231	38.698	0.077	0.580	0.730	0.194	0.127	98.522	97.786	97.586	0.800	2.131	A
16	S16	S17	17.00	6679.76	40517.6	47991.3	121562.443	200	1.231	38.698	0.082	0.596	0.750	0.203	0.127	98.446	97.710	97.510	0.800	2.231	A
17	S17	S18	17.00	6679.76	47991.3	55365.9	141562.443	200	1.231	38.698	0.087	0.612	0.770	0.212	0.127	98.370	97.634	97.434	0.800	2.331	A
18	S18	S19	17.00	6679.76	55365.9	62740.6	161562.443	200	1.231	38.698	0.092	0.628	0.790	0.221	0.127	98.294	97.558	97.358	0.800	2.431	A
19	S19	S20	17.00	6679.76	62740.6	70015.3	181562.443	200	1.231	38.698	0.097	0.644	0.810	0.230	0.127	98.218	97.482	97.282	0.800	2.531	A
20	S20	S21	17.00	6679.76	70015.3	77390.0	201562.443	200	1.231	38.698	0.102	0.660	0.830	0.239	0.127	98.142	97.406	97.206	0.800	2.631	A
21	S21	S22	17.00	6679.76	77390.0	84764.7	221562.443	200	1.231	38.698	0.107	0.676	0.850	0.248	0.127	98.066	97.330	97.130	0.800	2.731	A
22	S22	S23	17.00	6679.76	84764.7	92139.4	241562.443	200	1.231	38.698	0.112	0.692	0.870	0.257	0.127	97.990	97.254	97.054	0.800	2.831	A
23	S23	S24	17.00	6679.76	92139.4	99514.1	261562.443	200	1.231	38.698	0.117	0.708	0.890	0.266	0.127	97.914	97.178	96.978	0.800	2.931	A
24	S24	S25	17.00	6679.76	99514.1	106888.8	281562.443	200	1.231	38.698	0.122	0.724	0.910	0.275	0.127	97.838	97.102	96.902	0.800	3.031	A
25	S25	S26	17.00	6679.76	106888.8	114263.5	301562.443	200	1.231	38.698	0.127	0.740	0.930	0.284	0.127	97.762	97.026	96.826	0.800	3.131	A
26	S26	S27	17.00	6679.76	114263.5	121638.2	321562.443	200	1.231	38.698	0.132	0.756	0.950	0.293	0.127	97.686	96.950	96.750	0.800	3.231	A
27	S27	S28	17.00	6679.76	121638.2	129012.9	341562.443	200	1.231	38.698	0.137	0.772	0.970	0.302	0.127	97.610	96.874	96.674	0.800	3.331	A
28	S28	S29	17.00	6679.76	129012.9	136387.6	361562.443	200	1.231	38.698	0.142	0.788	0.990	0.311	0.127	97.534	96.798	96.598	0.800	3.431	A
29	S29	S30	17.00	6679.76	136387.6	143762.3	381562.443	200	1.231	38.698	0.147	0.804	1.010	0.320	0.127	97.458	96.722	96.522	0.800	3.531	A
30	S30	S31	17.00	6679.76	143762.3	151137.0	401562.443	200	1.231	38.698	0.152	0.820	1.030	0.329	0.127	97.382	96.646	96.446	0.800	3.631	A
31	S31	S32	17.00	6679.76	151137.0	158511.7	421562.443	200	1.231	38.698	0.157	0.836	1.050	0.338	0.127	97.306	96.570	96.370	0.800	3.731	A
32	S32	S33	17.00	6679.76	158511.7	165886.4	441562.443	200	1.231	38.698	0.162	0.852	1.070	0.347	0.127	97.230	96.494	96.294	0.800	3.831	A
33	S33	S34	17.00	6679.76	165886.4	173261.1	461562.443	200	1.231	38.698	0.167	0.868	1.090	0.356	0.127	97.154	96.418	96.218	0.800	3.931	A
34	S34	S35	17.00	6679.76	173261.1	180635.8	481562.443	200	1.231	38.698	0.172	0.884	1.110	0.365	0.127	97.078	96.342	96.142	0.800	4.031	A
35	S35	S36	17.00	6679.76	180635.8	188010.5	501562.443	200	1.231	38.698	0.177	0.900	1.130	0.374	0.127	97.002	96.266	96.066	0.800	4.131	A
36	S36	S37	17.00	6679.76	188010.5	195385.2	521562.443	200	1.231	38.698	0.182	0.916	1.150	0.383	0.127	96.926	96.190	95.990	0.800	4.231	A
37	S37	S38	17.00	6679.76	195385.2	202759.9	541562.443	200	1.231	38.698	0.187	0.932	1.170	0.392	0.127	96.850	96.114	95.914	0.800	4.331	A
38	S38	S39	17.00	6679.76	202759.9	210134.6	561562.443	200	1.231	38.698	0.192	0.948	1.190	0.401	0.127	96.774	96.038	95.838	0.800	4.431	A
39	S39	S40	17.00	6679.76	210134.6	217509.3	581562.443	200	1.231	38.698	0.197	0.964	1.210	0.410	0.127	96.698	95.962	95.762	0.800	4.531	A
40	S40	S41	17.00	6679.76	217509.3	224883.8	601562.443	200	1.231	38.698	0.202	0.980	1.230	0.419	0.127	96.622	95.886	95.686	0.800	4.631	A
41	S41	S42	17.00	6679.76	224883.8	232258.3	621562.443	200	1.231	38.698	0.207	0.996	1.250	0.428	0.127	96.546	95.810	95.610	0.800	4.731	A
42	S42	S43	17.00	6679.76	232258.3	239632.8	641562.443	200	1.231	38.698	0.212	1.012	1.270	0.437	0.127	96.470	95.734	95.534	0.800	4.831	A
43	S43	S44	17.00	6679.76	239632.8	247007.3	661562.443	200	1.231	38.698	0.217	1.028	1.290	0.446	0.127	96.394	95.658	95.458	0.800	4.931	A
44	S44	S45	17.00	6679.76	247007.3	254381.8	681562.443	200	1.231	38.698	0.222	1.044	1.310	0.455	0.127	96.318	95.582	95.382	0.800	5.031	A
45	S45	S46	17.00	6679.76	254381.8	261756.3	701562.443	200	1.231	38.698	0.227	1.060	1.330	0.464	0.127	96.242	95.506	95.306	0.800	5.131	A
46	S46	S47	17.00	6679.76	261756.3	269130.8	721562.443	200	1.231	38.698	0.232	1.076	1.350	0.473	0.127	96.166	95.430	95.230	0.800	5.231	A
47	S47	S48	17.00	6679.76	269130.8	276505.3	741562.443	200	1.231	38.698	0.237	1.092	1.370	0.482	0.127	96.090	95.354	95.154	0.800	5.331	A
48	S48	S49	17.00	6679.76	276505.3	283879.8	761562.443	200	1.231	38.698	0.242	1.108	1.390	0.491	0.127	96.014	95.278	95.078	0.800	5.431	A
49	S49	S50	17.00	6679.76	283879.8	291254.3	781562.443	200	1.231	38.698	0.247	1.124	1.410	0.500	0.127	95.938	95.202	95.002	0.800	5.531	A
50	S50	S51	17.00	6679.76	291254.3	298628.8	801562.443	200	1.231	38.698	0.252	1.140	1.430	0.509	0.127	95.862	95.126	94.926	0.800	5.631	A
51	S51	S52	17.00	6679.76	298628.8	306003.3	821562.443	200	1.231	38.698	0.257	1.156	1.450	0.518	0.127	95.786	95.050	94.850	0.800	5.731	A
52	S52	S53	17.00	6679.76	306003.3	313377.8	841562.443	200	1.231	38.698	0.262	1.172	1.470	0.527	0.127	95.710	94.974	94.774	0.800	5.831	A
53	S53	S54	17.00	6679.76	313377.8	320752.3	861562.443	200	1.231	38.698	0.267	1.188	1.490	0.536	0.127	95.634	94.898	94.698	0.800	5.931	A
54	S54	S55	17.00	6679.76	320752.3	328126.8	881562.443	200	1.231	38.698	0.272	1.204	1.510	0.545	0.1						

S No	Line No	Length	Total Water Requirement	Sewage flow in M ³ /d LPCD (pd)	Peak Flow (pd)	Peak Flow	Pipe Size (mm)	Slope (1 in)	Velocity (m/s)	Capacity of pipe (lps)	Q-Q	va/v	Actual velocity (va)	d/D	Fall (m)	Ground Level (m)	Crown Level (m)	Invert Level (m)	Depth (m)	Type of Manhole
57	S53	15.00	5803.91	53045.2	58039.1	141453.831	1.637	200	1.231	38.698	0.042	0.468	0.576	0.131	0.100	98.908	97.948	97.748	1.160	A
58	S54	15.00	5803.91	58039.1	64833	155992.2141	1.801	200	1.231	38.698	0.047	0.484	0.596	0.139	0.100	98.848	97.848	97.648	1.200	A
59	S55	15.00	5803.91	64833	70726.9	169744.5972	1.965	200	1.231	38.698	0.051	0.497	0.612	0.145	0.100	98.788	97.748	97.548	1.240	A
60	S56	15.00	5803.91	70726.9	76620.8	183889.9804	2.128	200	1.231	38.698	0.055	0.510	0.627	0.151	0.100	98.728	97.648	97.448	1.280	A
61	S56a	15.00	5803.91	76620.8	82514.7	198035.3635	2.292	200	1.140	35.827	0.064	0.538	0.614	0.164	0.086	98.668	97.548	97.348	1.320	A
62	S57	24.00	9430.26	82514.7	91945	220667.9764	2.554	200	1.066	33.513	0.076	0.577	0.615	0.182	0.120	98.608	97.204	97.004	1.604	A
63	S44	17.00	6679.76	3701.38	37681.7	301453.831	10.467	200	0.784	24.639	0.425	0.955	0.749	0.454	0.046	98.445	96.729	96.529	1.916	B
64	S58	17.00	6679.76	37681.7	383497	386797.6424	10.653	200	0.784	24.639	0.425	0.955	0.752	0.458	0.046	98.529	96.683	96.483	2.046	B
65	S59	17.00	6679.76	383497	390177	930392.9273	10.838	200	0.779	24.474	0.443	0.966	0.752	0.465	0.045	98.507	96.637	96.437	2.069	B
66	S60	10.00	3929.27	390177	394106	936424.3615	10.947	200	0.774	24.313	0.450	0.970	0.750	0.469	0.026	98.665	96.591	96.391	2.274	B
67	S61	13.00	5108.06	394106	399214	945854.6169	11.089	200	0.769	24.155	0.459	0.975	0.750	0.475	0.034	98.665	96.565	96.365	2.300	B
68	S62	2.00	785.855	399214	400000	948113.9489	11.111	200	0.764	23.999	0.463	0.978	0.747	0.477	0.005	98.665	96.531	96.331	2.334	C

For GCC INFRA
Devi
 Authorised Signatory

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016)
area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35
Acres (License no. 126 of 2022) in total area measuring 10.625 Acres
being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

MATERIAL STATEMENT (STORM WATER DRAIN)

Node		Diameter	Length of Pipe	Pipe Qty.
From	To	mm	mtrs.	400 dia
D1	RW-1	400	10.0	10.0
D1	D2	400	14.0	14.0
D2	D3	400	16.0	16.0
D3	D4	400	16.0	16.0
D4	D5	400	14.0	14.0
D5	D6	400	15.0	15.0
D6	D7	400	16.0	16.0
D7	D8	400	16.0	16.0
D8	D9	400	16.0	16.0
D9	D10	400	15.0	15.0
D10	D11	400	17.0	17.0
D12	D13	400	15.0	15.0
D13	D14	400	15.0	15.0
D14	D15	400	15.0	15.0
D15	D16	400	15.0	15.0
D16	D16a	400	15.0	15.0
D16a	D17	400	5.0	5.0
D18	RW-2	400	10.0	10.0
D18	D19	400	15.0	15.0
D19	D20	400	15.0	15.0
D20	D21	400	15.0	15.0
D21	D22	400	15.0	15.0
D22	D23	400	15.0	15.0
D23	D17	400	15.0	15.0
D17	D24	400	5.0	5.0
D24	D25	400	15.0	15.0
D25	D26	400	15.0	15.0
D26	D11	400	10.0	10.0
D11	D27	400	7.0	7.0
D27	D28	400	19.0	19.0
D28	D29	400	17.0	17.0
D30a	D30	400	17.0	17.0
D30	D31	400	18.0	18.0
D31	D32	400	12.0	12.0
D32	D32a	400	15.0	15.0
D32a	D33	400	15.0	15.0
D33	D34	400	15.0	15.0
D34	D35	400	15.0	15.0
D35	D36	400	15.0	15.0
D36	D37	400	15.0	15.0
D37	D29	400	9.0	9.0
D29	D38	400	24.0	24.0
D38	RW-3	400	15.0	15.0
D38	D38a	400	15.0	15.0
D38a	D39	400	13.0	13.0
D39	D40	400	15.0	15.0
D40	D40a	400	15.0	15.0
D40a	D41	400	15.0	15.0
D41	D42	400	14.0	14.0
D43	D44	400	19.0	19.0
D44	D45	400	19.0	19.0
D45	D46	400	19.0	19.0
D46	D47	400	19.0	19.0
D47	D48	400	19.0	19.0
D48	D49	400	19.0	19.0
D49	D50	400	19.0	19.0

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D50	D51	400	19.0	19.0
D51	D52	400	19.0	19.0
D52	D53	400	18.0	18.0
D53	D54	400	19.0	19.0
D54	D55	400	19.0	19.0
D55	D56	400	22.0	22.0
D57	RW-4	400	10.0	10.0
D57	D58	400	18.0	18.0
D58	D59	400	17.0	17.0
D59	D56	400	10.0	10.0
D56	D42	400	24.0	24.0
D42	D60	400	15.0	15.0
D60	O. FLOW	400	10.0	10.0
TOTAL				1058.0

FOI C
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DESIGN CHART SHOWING OF DRAINAGE SYSTEM

S. No.	Line No.		Length	Catchment Area (Sqm)			Discharge (lps)	Pipe Dia (mm)	Slope (1 in)	Velocity (m/s)	Capacity of pipe (lps)	Fall (m)	Ground Level (m)		Crown Level (m)		Invert Level (m)		Depth (m)		TYPE OF MANHOLE
	From	To		Self	Progg.	Total							Start	End	Start	End	Start	End	Start	End	
1.	D1	RW-1	10.0	406.40	0.00	406.40	0.706	400	450	0.677	85.118	0.022	99.574	99.574	98.774	98.752	98.374	98.352	1.200	1.222	A
2.	D1	D2	14.0	568.96	0.00	568.96	0.988	400	250	0.908	114.198	0.056	99.574	99.518	98.774	98.718	98.374	98.318	1.200	1.200	A
3.	D2	D3	16.0	650.24	568.96	1219.20	2.117	400	250	0.908	114.198	0.064	99.518	99.454	98.718	98.654	98.318	98.254	1.200	1.200	A
4.	D3	D4	16.0	650.24	1219.20	1869.43	3.246	400	250	0.908	114.198	0.064	99.454	99.390	98.654	98.590	98.254	98.190	1.200	1.200	A
5.	D4	D5	14.0	568.96	1869.43	2438.39	4.233	400	250	0.908	114.198	0.056	99.390	99.334	98.590	98.534	98.190	98.134	1.200	1.200	A
6.	D5	D6	15.0	609.60	2438.39	3047.99	5.292	400	250	0.908	114.198	0.060	99.334	99.274	98.534	98.474	98.134	98.074	1.200	1.200	A
7.	D6	D7	16.0	650.24	3047.99	3698.23	6.421	400	250	0.908	114.198	0.064	99.274	99.210	98.474	98.410	98.074	98.010	1.200	1.200	A
8.	D7	D8	16.0	650.24	3698.23	4348.47	7.549	400	250	0.908	114.198	0.064	99.210	99.146	98.410	98.346	98.010	97.946	1.200	1.200	A
9.	D8	D9	16.0	650.24	4348.47	4998.71	8.678	400	250	0.908	114.198	0.064	99.146	99.082	98.346	98.282	97.946	97.882	1.200	1.200	A
10.	D9	D10	15.0	609.60	4998.71	5608.30	9.737	400	250	0.908	114.198	0.060	99.082	99.022	98.282	98.222	97.882	97.822	1.200	1.200	A
11.	D10	D11	17.0	690.88	5608.30	6299.18	10.936	400	250	0.908	114.198	0.068	99.022	98.954	98.222	98.154	97.822	97.754	1.200	1.200	A
12.	D12	D13	15.0	609.60	0.00	609.60	1.058	400	120	1.311	164.830	0.125	99.938	99.813	99.138	99.013	98.738	98.613	1.200	1.200	A
13.	D13	D14	15.0	609.60	609.60	1219.20	2.117	400	120	1.311	164.830	0.125	99.813	99.688	99.013	98.888	98.613	98.488	1.200	1.200	A
14.	D14	D15	15.0	609.60	1219.20	1828.79	3.175	400	120	1.311	164.830	0.125	99.688	99.563	98.888	98.763	98.488	98.363	1.200	1.200	A
15.	D15	D16	15.0	609.60	1828.79	2438.39	4.233	400	120	1.311	164.830	0.125	99.563	99.438	98.763	98.638	98.363	98.238	1.200	1.200	A
16.	D16	D16a	15.0	609.60	2438.39	3047.99	5.292	400	120	1.311	164.830	0.125	99.438	99.313	98.638	98.513	98.238	98.113	1.200	1.200	A
17.	D16a	D17	5.0	203.20	3047.99	3251.19	5.644	400	120	1.311	164.830	0.042	99.313	99.273	98.513	98.471	98.113	98.071	1.200	1.202	A
18.	D18	D19	15.0	609.60	0.00	609.60	1.058	400	250	0.908	114.198	0.060	99.518	99.458	98.718	98.658	98.318	98.258	1.200	1.200	A
19.	D19	D20	15.0	609.60	609.60	1219.20	2.117	400	250	0.908	114.198	0.060	99.458	99.398	98.658	98.598	98.258	98.198	1.200	1.200	A
20.	D20	D21	15.0	609.60	1219.20	1828.79	3.175	400	250	0.908	114.198	0.060	99.398	99.338	98.598	98.538	98.198	98.138	1.200	1.200	A
21.	D21	D22	15.0	609.60	1828.79	2438.39	4.233	400	250	0.908	114.198	0.060	99.338	99.278	98.538	98.478	98.138	98.078	1.200	1.200	A
22.	D22	D23	15.0	609.60	2438.39	3047.99	5.292	400	250	0.908	114.198	0.060	99.278	99.218	98.478	98.418	98.078	98.018	1.200	1.200	A
23.	D23	D17	15.0	609.60	3047.99	3657.59	6.350	400	120	1.311	164.830	0.125	99.218	99.144	98.418	98.293	98.018	97.893	1.200	1.251	A
24.	D17	D24	5.0	203.20	6908.78	7111.98	12.347	400	250	0.908	114.198	0.020	99.144	99.124	98.293	98.273	98.893	97.873	1.251	1.251	A
25.	D24	D25	15.0	609.60	7111.98	7721.58	13.406	400	250	0.908	114.198	0.060	99.124	99.064	98.273	98.213	97.873	97.813	1.251	1.251	A
26.	D25	D26	15.0	609.60	7721.58	8331.18	14.464	400	250	0.908	114.198	0.060	99.064	99.004	98.213	98.153	97.813	97.753	1.251	1.251	A
27.	D26	D11	10.0	406.40	8331.18	8737.58	15.169	400	250	0.908	114.198	0.060	99.004	98.957	98.153	98.093	97.753	97.693	1.251	1.264	A
28.	D11	D27	7.0	284.48	15036.76	15321.24	26.599	400	250	0.908	114.198	0.028	98.957	98.929	98.093	98.053	97.693	97.653	1.264	1.276	A
29.	D27	D28	19.0	772.16	15321.24	16093.40	27.940	400	250	0.908	114.198	0.076	98.929	98.853	98.053	98.025	97.653	97.625	1.276	1.288	A
30.	D28	D29	17.0	690.88	16093.40	16784.27	29.139	400	250	0.908	114.198	0.068	98.853	98.784	98.025	97.949	97.625	97.549	1.288	1.235	A
31.	D30a	D30	17.0	690.88	0.00	690.88	1.199	400	250	0.908	114.198	0.068	99.351	99.351	98.551	98.483	98.151	98.083	1.200	1.268	A
32.	D30	D31	18.0	731.52	690.88	1422.40	2.469	400	250	0.908	114.198	0.068	99.351	99.279	98.483	98.415	98.083	98.015	1.268	1.264	A
33.	D31	D32	12.0	487.68	1422.40	1910.07	3.316	400	250	0.908	114.198	0.068	99.279	99.231	98.415	98.347	98.015	97.947	1.264	1.284	A
34.	D32	D32a	15.0	609.60	1910.07	2519.67	4.374	400	250	0.908	114.198	0.068	99.231	99.171	98.347	98.299	97.947	97.899	1.284	1.272	A
35.	D32a	D33	15.0	609.60	2519.67	3129.27	5.433	400	250	0.908	114.198	0.048	99.171	99.111	98.299	98.239	97.899	97.839	1.272	1.272	A
36.	D33	D34	15.0	609.60	3129.27	3738.87	6.491	400	250	0.908	114.198	0.060	99.111	99.051	98.239	98.179	97.839	97.779	1.272	1.272	A
37.	D34	D35	15.0	609.60	3738.87	4348.47	7.549	400	250	0.908	114.198	0.060	99.051	98.991	98.179	98.119	97.779	97.719	1.272	1.272	A
38.	D35	D36	15.0	609.60	4348.47	4958.07	8.608	400	250	0.908	114.198	0.060	98.991	98.931	98.119	98.059	97.719	97.659	1.272	1.272	A
39.	D36	D37	15.0	609.60	4958.07	5567.66	9.666	400	250	0.908	114.198	0.060	98.931	98.871	98.059	97.999	97.659	97.599	1.272	1.272	A
40.	D37	D29	9.0	365.76	5567.66	5933.42	10.301	400	250	0.908	114.198	0.036	98.871	98.784	97.999	97.963	97.599	97.563	1.272	1.221	A
41.	D29	D38	24.0	975.36	22717.70	23693.05	41.134	400	250	0.908	114.198	0.096	98.784	98.688	97.949	97.853	97.549	97.453	1.235	1.235	A
42.	D38	RW-3	15.0	609.60	23693.05	24302.65	42.192	400	250	0.908	114.198	0.060	98.688	98.628	97.853	97.793	97.453	97.393	1.235	1.235	A
43.	D38	D38a	15.0	609.60	23693.05	24302.65	42.192	400	250	0.908	114.198	0.060	98.628	98.628	97.843	97.783	97.443	97.383	1.245	1.245	A
44.	D38a	D39	13.0	528.32	24302.65	24830.97	43.109	400	250	0.908	114.198	0.052	98.628	98.576	97.783	97.731	97.383	97.331	1.245	1.245	A

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PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2016) area measuring 3.25 Acres (License no. 5 of 2023) in addition to 7.35 Acres (License no. 126 of 2022) in total area measuring 10.625 Acres being developed by GCC INFRA at Sector - 88A, Gurugram, Haryana.

Sub Work IV					Road Work
MATERIAL STATEMENT (ROAD WORK)					
TAG	LENGTH (M)	WIDTH (M)	DRIVE WAY (M)	AREA	UNIT
R1	78.00	9	5.5	429	SQM.
R2	129.00	9	5.5	709.5	SQM.
R3	275.00	9	5.5	1512.5	SQM.
R4	74.00	9	5.5	407	SQM.
R5	91.00	9	5.5	500.5	SQM.
R6	58.00	9	5.5	319	SQM.
R7	26.00	12	5.5	143	SQM.
R8	22.00	9	5.5	121	SQM.
G. TOTAL	753.00			4141.5	SQM.
Add 5% extra for curves				207.075	SQM.
Total				4348.575	SQM.
Say				4350.00	SQM.

ii)	Kerbs & Channel		
i)	9 .00 Mtr. Wide road (2x727)	1454	Mtr.
ii)	12 .00 Mtr. Wide road (2x26)	52	Mtr.
	G. Total	1506	Mtr.
	Add 5% for curves	75.3	Mtr.
	Total	1581.3	Mtr.
	Say	1582.00	Mtr.

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S.No.	Line No.		Length	Catchment Area(Sq.m)			Discharge (lps)	Pipe Dia (mm)	Slope (1 in)	Velocity(m/s)	Capacity of pipe (lps)	Fall(m)	Ground Level(m)		Crown Level(m)		Invert Level(m)		Depth(m)		TYPE OF MANHOLE
	From	To		Self	Progg.	Total							Start	End	Start	End	Start	End	Start	End	
45.	D39	D40	15.0	609.60	24830.97	25440.57	44.168	400	250	0.908	114.198	0.060	98.576	98.516	97.731	97.671	97.331	97.271	1.245	1.245	A
46.	D40	D40a	15.0	609.60	25440.57	26050.17	45.226	400	250	0.908	114.198	0.060	98.516	98.456	97.671	97.611	97.271	97.211	1.245	1.245	A
47.	D40a	D41	15.0	609.60	26050.17	26659.77	46.284	400	250	0.908	114.198	0.060	98.456	98.396	97.611	97.551	97.211	97.151	1.245	1.245	A
48.	D41	D42	14.0	568.96	26659.77	27228.72	47.272	400	250	0.908	114.198	0.056	98.396	98.348	97.551	97.495	97.151	97.095	1.245	1.253	A
49.	D42	D44	19.0	772.16	0.00	772.16	1.341	400	250	0.908	114.198	0.076	99.448	99.372	98.648	98.572	98.248	98.172	1.200	1.200	A
50.	D44	D45	19.0	772.16	772.16	1544.32	2.681	400	250	0.908	114.198	0.076	99.372	99.296	98.572	98.496	98.172	98.096	1.200	1.200	A
51.	D45	D46	19.0	772.16	1544.32	2316.47	4.022	400	250	0.908	114.198	0.076	99.296	99.220	98.496	98.420	98.096	98.020	1.200	1.200	A
52.	D46	D47	19.0	772.16	2316.47	3088.63	5.362	400	250	0.908	114.198	0.076	99.220	99.144	98.420	98.344	98.020	97.944	1.200	1.200	A
53.	D47	D48	19.0	772.16	3088.63	3860.79	6.703	400	250	0.908	114.198	0.076	99.144	99.068	98.344	98.268	97.944	97.868	1.200	1.200	A
54.	D48	D49	19.0	772.16	3860.79	4632.95	8.043	400	250	0.908	114.198	0.076	99.068	98.992	98.268	98.192	97.868	97.792	1.200	1.200	A
55.	D49	D50	19.0	772.16	4632.95	5405.10	9.384	400	250	0.908	114.198	0.076	98.992	98.916	98.192	98.116	97.792	97.716	1.200	1.200	A
56.	D50	D51	19.0	772.16	5405.10	6177.26	10.724	400	250	0.908	114.198	0.076	98.916	98.840	98.116	98.040	97.716	97.640	1.200	1.200	A
57.	D51	D52	19.0	772.16	6177.26	6949.42	12.065	400	250	0.908	114.198	0.076	98.840	98.764	98.040	97.964	97.640	97.564	1.200	1.200	A
58.	D52	D53	18.0	731.52	6949.42	7680.94	13.335	400	250	0.908	114.198	0.072	98.764	98.692	97.964	97.892	97.564	97.492	1.200	1.200	A
59.	D53	D54	19.0	772.16	7680.94	8453.10	14.676	400	250	0.908	114.198	0.076	98.692	98.616	97.892	97.816	97.492	97.416	1.200	1.200	A
60.	D54	D55	19.0	772.16	8453.10	9225.25	16.016	400	250	0.908	114.198	0.076	98.616	98.540	97.816	97.740	97.416	97.340	1.200	1.200	A
61.	D55	D56	22.0	894.08	9225.25	10119.33	17.568	400	230	0.947	119.059	0.096	98.540	98.445	97.740	97.644	97.340	97.244	1.200	1.201	A
62.	D57a	RW-4	4.0	162.56	0.00	162.56	0.282	400	250	0.908	114.198	0.016	98.665	98.665	97.865	97.849	97.465	97.449	1.200	1.216	A
63.	D57a	D57	9.0	365.76	0.00	365.76	0.635	400	250	0.908	114.198	0.036	98.665	98.629	97.865	97.829	97.465	97.429	1.200	1.200	A
64.	D57	D58	18.0	731.52	365.76	1097.28	1.905	400	250	0.908	114.198	0.072	98.629	98.557	97.829	97.757	97.429	97.357	1.200	1.200	A
65.	D58	D59	17.0	690.88	1097.28	1788.16	3.104	400	150	1.173	147.428	0.113	98.557	98.445	97.757	97.644	97.357	97.244	1.200	1.201	A
66.	D59	D56	10.0	406.40	1788.16	2194.55	3.810	400	250	0.908	114.198	0.040	98.445	98.445	97.644	97.604	97.244	97.204	1.201	1.241	A
67.	D56	D42	24.0	975.36	12313.89	13289.24	23.072	400	250	0.908	114.198	0.096	98.445	98.349	97.604	97.508	97.204	97.108	1.241	1.241	A
68.	D42	D60	15.0	609.60	40517.97	41127.57	71.402	400	250	0.908	114.198	0.060	98.348	98.348	97.495	97.435	97.095	97.035	1.253	1.313	A
69.	D60	O. FLOW	10.0	406.40	41127.57	41533.96	72.108	400	250	0.908	114.198	0.040	98.348	98.262	97.435	97.395	97.035	96.995	1.313	1.267	A

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