

Directorate of Town and Country Planning, Haryana
Nagar Yojana Bhavan, Plot no. 3, Sector-18 A, Madhya Marg, Chandigarh
Web site tcpaharyana.gov.in - e-mail: tcpaharyana7@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 Vardhman Kaushik V/s Union of India and Ors, the following instruction issued vide letter No. 2613 dated 5.3.2015 be incorporated for implementation at site as under:-

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



construction material is completely covered by tarpaulin. To ensure that no dust particles are permitted to pollute the air quality as a result of such storage.

- v) The builder/contractor will be responsible and ensure that their activity does not cause any air pollution during the course of the construction and/or storage of material or construction activity. Defaulter shall be liable to be prosecuted under the law in force.
- vi) All trucks or vehicles of any kind which are used for construction purposes and/or are carrying construction materials like cement 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,

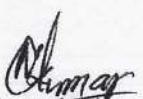


restoration and restitution of the environmental degradation resulting from such activity or otherwise.

- 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

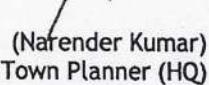

(Narendra Kumar)

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.




(Narendra 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 : cencrhana@gmail.com

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

CE-I No. 26892
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.



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

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.

1.2.2023 Q
SOE (W)

FOISM 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 Shanti 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 KOC/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 Shehri Vikas Pradhikaran or any other execution agency.
- xi. That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Act, 1960 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/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.

- xix. That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 1(H) 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.

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

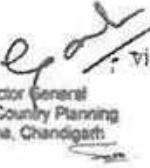
Director,
Town & Country Planning
Haryana
[Signature]

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 Shehari 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:

epd/s
(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.

N. Kumar
(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

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 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%** 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, *Rs 85.44 lalsh.* *907.80* *& cost/acre comes out to*

For M/s. GCC Infra

For GCC INFRA



Authorised Signatory


Nandeep

PROJECT :- Proposed Residential Plotted Colony (DDJAY - 2010) 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 | | | | 197.00 | KLD | | | |
| UGT 1/2 @ 50 % | | | | | 200.0 | KLD | | |
| Say | | | | | 116 | KLD | | |
| 7 CAP. OF FWS UGT 1/2 @ 50 % | | | | | 120.0 | KLD | | |
| Say | | | | | 60.33 | KLD | | |
| 8 Fire Demand | 180 13216/1000 x 43 | | | 70.0 | KLD | | | |
| Say | | | | | | | | |
| 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.

| 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 (1WELL) | | | 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 x 90) / 60 x 60 x 75 x 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%. | | | 236.40 197.0 | 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 Sign.

| | | | | |
|---|--|--|--|--|
| 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. | | | | |
|---|--|--|--|--|

| | | | | |
|---|---|----------------------|--------|--------|
| 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. |
| | | | 820.83 | LPM |
| | Discharge of pump | No. of Working Pumps | 2 | Nos. |
| | | Say | 410 | LPM |
| | Power Required (HP=(410 x 45) / 60 x 75 x 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. |
| | | | 483.33 | LPM |
| | Discharge of pump | No. of Working Pumps | 2 | Nos. |
| | | Say | 250 | LPM |
| | Power Required (HP=(250 x 45) / 60 x 75 x 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.

| 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

 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 | 155.00 168.67 |
| 3 | Sub Work - III Storm Water Drainage | 77.43 98.91 |
| 4 | Sub Work - IV Roads & Footpath | 220.47 173.32 |
| 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 (Acre) - Say Rs 907.80 Lacs | | 8.90 |
| Cost Per Acre, Say Rs 87.15 | | 104.81 |
| (RUPEES Eight Crore Fifty Two Lacs Forty Two thousand only) | | |
| Cost per Acre 947.02/10.625 - Rs 87.15 Lacs | | |
| Say Rs 85.44 87.15 (Lacs/ACres) | | |

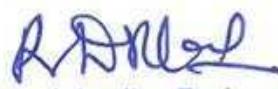
Authorized Signatory

For GCC INFRA

Authorised Signatory


Wandeep


Executive Engineer
HSVP Division No.V,
Gurugram


Superintending Engineer,
HSVP Circle, Gurugram

Checked subject to Comments
In forwarding letter No. 96892
Dt. 8/02/2023..... and notes
attached with the estimate

45


Director General -
Town & Country Planning
Haryana, Chandigarh

for CI


7/2/2023 D
SOE (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 GOC INFRA


Authorised Signatory



9

Substitutional Engineer
 10/10/2013, Gurgaon

Deputy General
 Planning & Control Wing
 Haryana Government

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 years | 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) | | |
|--|----------------|-------------|
| Water Supply Distribution System & Pumping Machinery | Amount (Lacs.) | |
| Sub head I. Water Supply (Head Works) | 46.45 | 49.45 |
| Sub head II. Water Supply (Pumping machinery) | 31.00 | |
| Sub head III. Water Supply (Distribution (Domestic & Flushing Water) | 39.66 | 39.67 |
| Sub head IV. Water Supply (Irrigation) | 3.87 | 4.38 |
| Total | 120.99 | 124.50 |
| Adding 3% for Contingencies & PE Charges | 3.63 | 3.74 |
| Total | 124.62 | 128.24 |
| Adding 49% departmental charges & price escalation etc, Unforeseen | 61.06 | 62.84 |
| Say | 185.68 | 191.08 Lacs |

C.O to final abstract of cost

For GCC INFRA
D. 10/12/2023
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 & Strom Water Drainage etc. in respect of proposed site for

| Sub Work I | | | | (Head Works) | |
|--|---|------|-----|--------------|------------------|
| Sub Head No. I | | 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 |
| 2 | 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] L. S $\frac{3 \cdot w}{49.45}$ Lalesh
2 T/w

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 & Strom Water Drainage etc. in respect of proposed site for

| S. No. | Description | Pumping Machinery | | | |
|--|--|-------------------|-----|---------|------------------|
| | | Unit | Qty | Rate | Amount (in Lacs) |
| 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 chaus and cost of Transformer. | LS | - | - | 3.00 |
| (C.O. to Abstract of Cost of Sub Work No. I) | | | | 31.00 | Lacs |

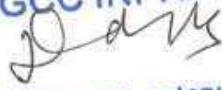
For GCC INFRA
Jehs
Authorised Signatory

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 & Strom 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 HSV 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. (C.O. to Abstract of Cost of Sub Work No. 1) | LS | - | - | 1.00 |
| | | | | 39.66 | Lacs |

39.67

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 & Strom Water Drainage etc. in respect of proposed site for

| S. No. | Description | Unit | Qty | Rate | Water Supply | |
|--|---|------|-----|------|--------------|------|
| | | | | | Irrigation | |
| 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 | | Lacs |

438

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 & Strom Water Drainage etc. in respect of proposed site for

| Sub Work II | | | | | Sewerage Scheme | |
|--|--|------|-----|-------|--------------------|------|
| S. No. | Description | Unit | Qty | Rate | 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 <i>8 PE charges</i> | | | | | 3.30 | |
| Total | | | | | 113.20 | |
| Adding 49% departmental charges & price escalation etc | | | | | 55.46 <i>55.47</i> | |
| Total Carry Over to Final Abstract of Cost | | | | | 168.66 | Lacs |

168.67

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 & Strom Water Drainage etc. in respect of proposed site for

| Sub Work - III | | | | | Storm Water Drain | |
|--|---|-----------------------------|---------|--------|-------------------|------|
| S. No. | Description | Unit | Qty | Rate | Amount (in Laes) | |
| 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 HSV 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 | Laes |
| Say | | <i>98.91 Laem. -110.00-</i> | | | | Laes |

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 & Strom Water Drainage etc. in respect of proposed site for

| S. No. | Sub Work IV Description | Unit | Qty | Road Work | |
|--|--|----------|----------|-----------|------------------|
| | | | | Rate | Amount (in Lacs) |
| 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 . i 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 admin | | | | | 57.00 |
| Total Carry over to final abstract of cost | | | | | 173.32 |
| | | | | | Lacs |

For GCC INFRA
Authorized 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 & Strom Water Drainage etc. in respect of proposed site for

| Sub Work V | | | | | Street Lighting | |
|------------|---|------|--------|--------|------------------|------|
| S. No. | Description | Unit | Qty | Rate | Amount (in Lacs) | |
| 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 | Lacs |

| Sub Work VI | | | | | Horticulture | |
|-------------|---|------|-------|--------------|------------------|------|
| S. No. | Description | Unit | Qty | Rate | Amount (in Lacs) | |
| 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 | |
| | Add 3% contingencies and PE Charges | | | Total | 3.54 | |
| | | | | | 0.11 | |
| | Add 49% Departmental charges, Price Escalation, Unforeseen Adm. | | | Total | 3.65 | |
| | | | | | 1.78 | |
| | Total Carry Over to Final Abstract of Cost | | | Total | 5.43 | Lacs |

| Sub Work VII | | | | | Maintenance Charges & Resurfacing | |
|--------------|---|----------|--------|--------------|-----------------------------------|------|
| S. No. | Description | Unit | Qty | Rate | Amount (in Lacs) | |
| 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 | |
| | Add 3% contingency & PE charges | | | Total | 149.60 | |
| | | | | | 4.49 | |
| | Add 49% Departmental charges, Price Escalation, Unforeseen Adm. | | | Total | 154.09 | |
| | | | | | 75.50 | |
| | Total Carry Over to Final Abstract of Cost | | | Total | 229.59 | Lacs |

For GCC INFRA

 Authorised Signatory

DESIGN CHART SHOWING OF DOMESTIC WATER SUPPLY SYSTEM

| S No | Line | Average Load in LTR | | | Peak | Dia | Velocity (m/s) | Length (m) | Friction loss in m/100 ft length & head(m) | Equivalent length for bends & tees(m) | Ground level(m) | EGL(m) | | Head(m) | |
|------|-------|---------------------|--------|--------|------------|-------------|-------------------|---------------|---|--|-----------------|--------|--------|---------|-------|
| | | From | To | Self | Additional | Progressive | Flow[lpm] | (mm) | 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 | 124.42 | 25.00 |
| 2. | W1 | W2 | 0 | 357085 | 357085 | 992 | 150 | 0.935 | 30 | 33 | 0.550 | 0.182 | 99.42 | 124.38 | 24.97 |
| 3. | W2 | W3 | 0 | 187552 | 187552 | 521 | 100 | 1.105 | 25 | 28 | 1.206 | 0.338 | 101.49 | 124.20 | 24.20 |
| 4. | W3 | W4 | 8073 | 179479 | 187552 | 521 | 100 | 1.105 | 43 | 47 | 1.206 | 0.567 | 101.49 | 124.20 | 22.71 |
| 5. | W4 | W5 | 18164 | 52475 | 70639 | 196 | 100 | 0.416 | 47 | 52 | 0.206 | 0.107 | 99.60 | 99.42 | 22.37 |
| 6. | W5 | W6 | 52475 | 0 | 52475 | 146 | 100 | 0.309 | 110 | 121 | 0.120 | 0.146 | 99.42 | 98.67 | 23.70 |
| 7. | W4 | W7 | 12110 | 96731 | 108840 | 302 | 100 | 0.641 | 47 | 52 | 0.450 | 0.234 | 99.42 | 98.67 | 23.77 |
| 8. | W7 | W8 | 41479 | 0 | 41479 | 115 | 100 | 0.244 | 88 | 97 | 0.076 | 0.076 | 98.67 | 123.30 | 23.70 |
| 9. | W7 | W9 | 44402 | 10850 | 55252 | 153 | 100 | 0.326 | 88 | 97 | 0.132 | 0.128 | 98.67 | 122.86 | 23.77 |
| 10. | W9 | W10 | 8832 | 2018 | 10850 | 30 | 100 | 0.064 | 44 | 48 | 0.007 | 0.003 | 98.42 | 123.19 | 24.38 |
| 11. | W10 | W11 | 2018 | 0 | 2018 | 6 | 100 | 0.012 | 25 | 28 | 0.000 | 0.000 | 98.49 | 122.85 | 24.40 |
| 12. | W2 | W12 | 18164 | 151369 | 169533 | 471 | 100 | 0.999 | 84 | 92 | 1.004 | 0.924 | 98.49 | 124.20 | 24.44 |
| 13. | W12 | W15 | 10091 | 0 | 10091 | 28 | 100 | 0.059 | 18 | 20 | 0.006 | 0.001 | 98.49 | 123.28 | 24.44 |
| 14. | W12 | W13 | 60555 | 135223 | 141278 | 392 | 100 | 0.832 | 25 | 28 | 0.722 | 0.202 | 98.49 | 123.28 | 24.59 |
| 15. | W13 | W14 | 24219 | 0 | 24219 | 67 | 100 | 0.143 | 47 | 52 | 0.030 | 0.015 | 98.49 | 123.07 | 24.57 |
| 16. | W13 | W11 | 111004 | 0 | 111004 | 308 | 100 | 0.654 | 244 | 268 | 0.467 | 1.251 | 98.49 | 121.82 | 23.34 |

357085 970

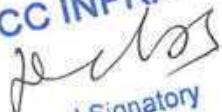
For GCC INFRA

 Authorised Signatory

357085

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) | | | | 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 | 121.30 | 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 | 23.41 |
| 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 | 0.012 | 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

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 (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
 DNB
 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

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 (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
[Signature]
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 | |

107

hol
California

DESIGN CHART SHOWING OF SEWERAGE SYSTEM

| S.No | Line No | Length | Toill Water Requirement | Sewage flow, $n = 80\%$ LPCD(pd) | | Peak Flow(pd) | Peak Flow | Pipe Sediment | Slope (1/m) | Velocity (m/s) | Capacity of pipe(pd) | q/Q | v/v velocity (m/s) | d/D | Fall(m) | Ground Level(m) | Crown Level(m) | Invert Level(m) | Depth(m) | Type of Manhole | |
|------|---------|--------|-------------------------|-------------------------------------|-----------|---------------|-------------|------------------|-------------|-------------------|----------------------------|--------|--------------------------|-------|---------|-----------------|----------------|-----------------|----------|--------------------|---|
| | | | | 1 | 2 | | | | | | | | | | | | | | | | |
| 1 | S1 | S2 | 17.00 | 6679.76 | 0 | 6679.76 | 16021.41418 | 0.186 | 200 | 1.50 | 1.23 | 38.698 | 0.005 | 0.350 | 0.431 | 0.076 | 0.113 | 99.574 | 99.506 | 98.861 | A |
| 2 | S2 | S3 | 18.00 | 7072.69 | 6679.76 | 13732.5 | 11601.99464 | 0.382 | 200 | 1.50 | 1.23 | 38.698 | 0.010 | 0.366 | 0.450 | 0.084 | 0.113 | 99.574 | 99.434 | 98.661 | A |
| 3 | S3 | S4 | 19.00 | 7465.62 | 13732.5 | 2181.1 | 16974.49772 | 0.589 | 200 | 1.50 | 1.23 | 38.698 | 0.015 | 0.382 | 0.470 | 0.094 | 0.120 | 99.434 | 99.358 | 98.747 | A |
| 4 | S4 | S5 | 19.00 | 7465.62 | 2181.1 | 26683.3 | 68840.86444 | 0.797 | 300 | 1.50 | 1.23 | 38.698 | 0.021 | 0.401 | 0.494 | 0.100 | 0.127 | 99.358 | 99.282 | 98.627 | A |
| 5 | S5 | S6 | 19.00 | 7465.62 | 28683.3 | 36193.9 | 89719.4499 | 0.904 | 200 | 1.50 | 1.23 | 38.698 | 0.026 | 0.417 | 0.513 | 0.107 | 0.127 | 99.282 | 99.206 | 98.501 | A |
| 6 | S6 | S7 | 19.00 | 7465.62 | 36193.9 | 44949.9 | 86758.34971 | 1.004 | 200 | 1.50 | 1.23 | 38.698 | 0.031 | 0.433 | 0.533 | 0.115 | 0.127 | 99.206 | 99.130 | 98.374 | A |
| 7 | S7 | S8 | 19.00 | 7465.62 | 44949.9 | 51080.6 | 40864.44018 | 1.104 | 200 | 1.50 | 1.23 | 38.698 | 0.037 | 0.452 | 0.557 | 0.124 | 0.137 | 99.130 | 99.054 | 98.327 | A |
| 8 | S8 | S9 | 19.00 | 7465.62 | 51080.6 | 58546.2 | 48686.95517 | 1.204 | 200 | 1.50 | 1.23 | 38.698 | 0.042 | 0.468 | 0.566 | 0.131 | 0.147 | 99.054 | 98.978 | 98.211 | A |
| 9 | S9 | S10 | 5.00 | 1396.64 | 58546.2 | 60510.8 | 48408.66444 | 1.304 | 200 | 1.50 | 1.23 | 38.698 | 0.043 | 0.471 | 0.580 | 0.133 | 0.177 | 99.957 | 99.944 | 97.974 | A |
| 10 | S10 | S11 | 5.12 | 18.00 | 7465.62 | 60510.8 | 64457.91 | 1.681 | 200 | 1.50 | 1.23 | 38.698 | 0.052 | 0.490 | 0.602 | 0.140 | 0.186 | 97.867 | 97.794 | 97.657 | A |
| 11 | S11 | S12 | 5.13 | 17.00 | 7072.69 | 7072.69 | 13732.5 | 11061.9464 | 200 | 1.50 | 1.23 | 38.698 | 0.059 | 0.493 | 0.605 | 0.150 | 0.190 | 99.186 | 99.118 | 98.966 | A |
| 12 | S12 | S13 | 5.14 | 17.00 | 66679.76 | 13732.5 | 20432.2 | 16345.62 | 200 | 1.50 | 1.23 | 38.698 | 0.066 | 0.503 | 0.615 | 0.155 | 0.194 | 99.174 | 99.104 | 98.947 | A |
| 13 | S13 | S14 | 5.15 | 17.00 | 66679.76 | 20432.2 | 27112 | 16897.5473 | 200 | 1.50 | 1.23 | 38.698 | 0.073 | 0.512 | 0.625 | 0.162 | 0.194 | 99.164 | 99.094 | 98.934 | A |
| 14 | S14 | S15 | 5.16 | 17.00 | 66679.76 | 27112 | 33791.7 | 20793.39862 | 200 | 1.50 | 1.23 | 38.698 | 0.080 | 0.522 | 0.637 | 0.171 | 0.195 | 98.941 | 98.873 | 98.701 | A |
| 15 | S15 | S16 | 5.17 | 17.00 | 5893.91 | 0 | 14145.951 | 4175.127701 | 200 | 1.50 | 1.23 | 38.698 | 0.084 | 0.537 | 0.651 | 0.181 | 0.197 | 97.874 | 97.794 | 97.657 | A |
| 16 | S16 | S17 | 5.18 | 17.00 | 5893.91 | 11787.8 | 28290.76621 | 0.916 | 200 | 1.50 | 1.23 | 38.698 | 0.092 | 0.540 | 0.669 | 0.190 | 0.202 | 98.805 | 98.718 | 98.605 | A |
| 17 | S17 | S18 | 5.19 | 17.00 | 5893.91 | 11787.8 | 14345.5831 | 0.932 | 200 | 1.50 | 1.23 | 38.698 | 0.099 | 0.543 | 0.681 | 0.197 | 0.202 | 98.805 | 98.718 | 98.605 | A |
| 18 | S18 | S19 | 5.20 | 17.00 | 5893.91 | 11787.8 | 17081.7 | 24346.4931 | 200 | 1.50 | 1.23 | 38.698 | 0.106 | 0.549 | 0.692 | 0.208 | 0.204 | 98.804 | 98.718 | 98.604 | A |
| 19 | S19 | S20 | 5.21 | 17.00 | 5893.91 | 11787.8 | 21551.6 | 18661.51081 | 200 | 1.50 | 1.23 | 38.698 | 0.113 | 0.555 | 0.705 | 0.214 | 0.204 | 98.804 | 98.718 | 98.604 | A |
| 20 | S20 | S21 | 5.22 | 17.00 | 5893.91 | 21551.6 | 27357.5 | 20469.5 | 200 | 1.50 | 1.23 | 38.698 | 0.120 | 0.562 | 0.727 | 0.221 | 0.214 | 98.804 | 98.718 | 98.604 | A |
| 21 | S21 | S22 | 5.23 | 17.00 | 5893.91 | 27357.5 | 33791.7 | 20793.39862 | 200 | 1.50 | 1.23 | 38.698 | 0.127 | 0.570 | 0.747 | 0.229 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 22 | S22 | S23 | 5.24 | 17.00 | 5893.91 | 33791.7 | 39371.3 | 19371.3 | 200 | 1.50 | 1.23 | 38.698 | 0.134 | 0.578 | 0.758 | 0.237 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 23 | S23 | S24 | 5.25 | 17.00 | 5893.91 | 39371.3 | 45265.2 | 6821.2 | 200 | 1.50 | 1.23 | 38.698 | 0.141 | 0.586 | 0.762 | 0.245 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 24 | S24 | S25 | 5.26 | 17.00 | 5893.91 | 45265.2 | 46374.7 | 17081.7 | 200 | 1.50 | 1.23 | 38.698 | 0.148 | 0.593 | 0.772 | 0.253 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 25 | S25 | S26 | 5.27 | 17.00 | 5893.91 | 46374.7 | 52357.5 | 12665.7 | 200 | 1.50 | 1.23 | 38.698 | 0.155 | 0.600 | 0.782 | 0.261 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 26 | S26 | S27 | 5.28 | 17.00 | 5893.91 | 52357.5 | 58546.2 | 26683.3 | 200 | 1.50 | 1.23 | 38.698 | 0.162 | 0.608 | 0.792 | 0.270 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 27 | S27 | S28 | 5.29 | 17.00 | 5893.91 | 58546.2 | 64457.91 | 34577.6 | 200 | 1.50 | 1.23 | 38.698 | 0.170 | 0.615 | 0.802 | 0.279 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 28 | S28 | S29 | 5.30 | 17.00 | 5893.91 | 64457.91 | 70736.7 | 40471.5 | 200 | 1.50 | 1.23 | 38.698 | 0.177 | 0.622 | 0.812 | 0.288 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 29 | S29 | S30 | 5.31 | 17.00 | 5893.91 | 70736.7 | 76875 | 41493.1 | 200 | 1.50 | 1.23 | 38.698 | 0.184 | 0.630 | 0.822 | 0.297 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 30 | S30 | S31 | 5.32 | 17.00 | 5893.91 | 76875 | 82171.1 | 17081.7 | 200 | 1.50 | 1.23 | 38.698 | 0.191 | 0.637 | 0.832 | 0.306 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 31 | S31 | S32 | 5.33 | 17.00 | 5893.91 | 82171.1 | 88683.7 | 22735.6 | 200 | 1.50 | 1.23 | 38.698 | 0.198 | 0.644 | 0.842 | 0.315 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 32 | S32 | S33 | 5.34 | 17.00 | 5893.91 | 88683.7 | 94357.7 | 27357.6 | 200 | 1.50 | 1.23 | 38.698 | 0.205 | 0.651 | 0.852 | 0.322 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 33 | S33 | S34 | 5.35 | 17.00 | 5893.91 | 94357.7 | 10217.1 | 34577.6 | 200 | 1.50 | 1.23 | 38.698 | 0.212 | 0.658 | 0.862 | 0.330 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 34 | S34 | S35 | 5.36 | 17.00 | 5893.91 | 10217.1 | 10722 | 11217.1 | 200 | 1.50 | 1.23 | 38.698 | 0.219 | 0.665 | 0.872 | 0.339 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 35 | S35 | S36 | 5.37 | 17.00 | 5893.91 | 10722 | 11787.8 | 11787.8 | 200 | 1.50 | 1.23 | 38.698 | 0.226 | 0.672 | 0.882 | 0.348 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 36 | S36 | S37 | 5.38 | 17.00 | 5893.91 | 11787.8 | 12819.1 | 12819.1 | 200 | 1.50 | 1.23 | 38.698 | 0.233 | 0.680 | 0.892 | 0.357 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 37 | S37 | S38 | 5.39 | 17.00 | 5893.91 | 12819.1 | 13736.7 | 13736.7 | 200 | 1.50 | 1.23 | 38.698 | 0.240 | 0.687 | 0.902 | 0.366 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 38 | S38 | S39 | 5.40 | 17.00 | 5893.91 | 13736.7 | 226261 | 226261 | 200 | 1.50 | 1.23 | 38.698 | 0.247 | 0.694 | 0.912 | 0.375 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 39 | S39 | S40 | 5.41 | 17.00 | 5893.91 | 226261 | 23418.5 | 18347.6 | 200 | 1.50 | 1.23 | 38.698 | 0.254 | 0.701 | 0.922 | 0.384 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 40 | S40 | S41 | 5.42 | 17.00 | 5893.91 | 23418.5 | 24418.5 | 19347.7 | 200 | 1.50 | 1.23 | 38.698 | 0.261 | 0.708 | 0.932 | 0.393 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 41 | S41 | S42 | 5.43 | 17.00 | 5893.91 | 24418.5 | 25986.6 | 245580 | 200 | 1.50 | 1.23 | 38.698 | 0.268 | 0.715 | 0.942 | 0.402 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 42 | S42 | S43 | 5.44 | 17.00 | 5893.91 | 25986.6 | 26523.6 | 20178.2 | 200 | 1.50 | 1.23 | 38.698 | 0.275 | 0.722 | 0.952 | 0.411 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 43 | S43 | S44 | 5.45 | 17.00 | 5893.91 | 26523.6 | 27569.8 | 17081.7 | 200 | 1.50 | 1.23 | 38.698 | 0.282 | 0.730 | 0.962 | 0.420 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 44 | S44 | S45 | 5.46 | 17.00 | 5893.91 | 27569.8 | 28557.5 | 16974.8 | 200 | 1.50 | 1.23 | 38.698 | 0.289 | 0.737 | 0.972 | 0.429 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 45 | S45 | S46 | 5.47 | 17.00 | 5893.91 | 28557.5 | 29534.7 | 16974.8 | 200 | 1.50 | 1.23 | 38.698 | 0.296 | 0.744 | 0.982 | 0.438 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 46 | S46 | S47 | 5.48 | 17.00 | 5893.91 | 29534.7 | 30511.7 | 16974.8 | 200 | 1.50 | 1.23 | 38.698 | 0.303 | 0.751 | 0.992 | 0.447 | 0.214 | 97.867 | 97.794 | 97.657 | A |
| 47 | S47 | S48 | 5.49 | 17.00 | 5893.91</ | | | | | | | | | | | | | | | | |

| S. No | Line No | Length | Total Water Requirement | Sewage Flow in KHPD LPCD(ped) | Peak Flow(ped) | Peak Flow | Pipe Slope(m/m) | Slope (1 in ft) | Volumetric Capacity (m ³) | Capacity of piping(p _s) | Q _s V | Actual velocity (m/s) | d/D | Fall(m) | Ground Level(m) | Crown Level(m) | Invert Level(m) | Depth(m) | Type of Manhole | | | | | |
|-------|---------|--------|-------------------------|----------------------------------|----------------|-----------|--------------------|--------------------|--|--|------------------|-----------------------------|--------|---------|-----------------|----------------|-----------------|----------|--------------------|--------|--------|--------|--------|---|
| 57. | S53 | 554 | 15.00 | 5893.91 | 53045.2 | 58939.1 | 47151.27761 | 141453.811 | 1.637 | 200 | 150 | 1.231 | 38.698 | 0.142 | 0.468 | 0.576 | 0.131 | 0.100 | 98.908 | 97.948 | 97.748 | 97.648 | A | |
| 58. | S54 | 555 | 15.00 | 5893.91 | 56929.1 | 64833 | 51866.40472 | 155599.2141 | 1.801 | 200 | 150 | 1.231 | 38.698 | 0.142 | 0.484 | 0.598 | 0.139 | 0.100 | 98.848 | 97.798 | 97.848 | 97.648 | A | |
| 59. | S55 | 556 | 15.00 | 5893.91 | 64833 | 70726.9 | 56387.53242 | 169744.5072 | 1.965 | 200 | 150 | 1.231 | 38.698 | 0.142 | 0.497 | 0.612 | 0.145 | 0.100 | 98.788 | 97.738 | 97.748 | 97.548 | A | |
| 60. | S56 | 556 | 15.00 | 5893.91 | 70726.9 | 76620.8 | 61296.66012 | 183899.3804 | 2.128 | 200 | 150 | 1.231 | 38.698 | 0.142 | 0.510 | 0.622 | 0.151 | 0.100 | 98.728 | 97.648 | 97.648 | 97.448 | A | |
| 61. | S56a | 557 | 15.00 | 5893.91 | 70726.9 | 76620.8 | 82534.7 | 66011.78782 | 198045.3635 | 2.392 | 200 | 175 | 1.140 | 38.698 | 0.055 | 0.538 | 0.614 | 0.064 | 0.076 | 98.668 | 97.548 | 97.448 | 97.348 | A |
| 62. | S57 | S44 | 24.00 | 54430.26 | 852514.7 | 91945 | 73555.90214 | 230667.9764 | 2.554 | 200 | 200 | 1.066 | 38.827 | 0.527 | 0.577 | 0.615 | 0.182 | 0.120 | 98.608 | 97.548 | 97.462 | 97.348 | A | |
| 63. | S44 | S58 | 17.00 | 66759.76 | 3701318 | 376817 | 301433.831 | 984364.4931 | 10.467 | 200 | 370 | 0.784 | 24.639 | 0.425 | 0.935 | 0.749 | 0.434 | 0.046 | 98.445 | 98.529 | 98.529 | 98.529 | A | |
| 64. | S58 | S59 | 17.00 | 66759.76 | 376817 | 3834697 | 306797.6424 | 930392.9273 | 10.653 | 200 | 370 | 0.784 | 24.639 | 0.425 | 0.935 | 0.752 | 0.458 | 0.046 | 98.529 | 98.597 | 98.637 | 98.437 | B | |
| 65. | S59 | S60 | 17.00 | 66759.76 | 3834697 | 390171 | 312141.4536 | 93624.3615 | 10.858 | 200 | 375 | 0.779 | 24.474 | 0.443 | 0.966 | 0.752 | 0.465 | 0.045 | 98.597 | 98.665 | 98.637 | 98.437 | B | |
| 66. | S60 | S61 | 10.00 | 3959.27 | 390177 | 394106 | 315284.8723 | 9455954.6169 | 10.947 | 200 | 380 | 0.774 | 24.313 | 0.450 | 0.970 | 0.759 | 0.469 | 0.026 | 98.665 | 98.591 | 98.565 | 98.391 | B | |
| 67. | S61 | S62 | 13.00 | 5108.06 | 394106 | 399214 | 319371.3163 | 958113.9489 | 11.089 | 200 | 385 | 0.769 | 24.155 | 0.459 | 0.975 | 0.759 | 0.475 | 0.034 | 98.665 | 98.595 | 98.565 | 98.391 | B | |
| 68. | S62 | S1P | 2.00 | 788.855 | 399214 | 400000 | 320000 | 960000 | 11.111 | 200 | 390 | 0.764 | 23.999 | 0.463 | 0.978 | 0.742 | 0.477 | 0.005 | 98.665 | 98.595 | 98.531 | 98.326 | C | |

For GCC INFRA
Details
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 |

For GCC Infra
Authorised Signatory

| | | | | |
|-------|---------|-----|--------|------|
| 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 | |

1000
100
10
1
100
1000

DESIGN CHART SHOWING OF DRAINAGE SYSTEM

| S.No. | Line No. | Length | Catchment Area(Sqm) | Discharge (lps) | Pipe Dia (1 in) | Slope (mm) | Velocity(m/s) | Capacity of pipe (lps) | Fall(m) | Ground Level(m) | Crown Level(m) | Invert Level(m) | Depth(m) | TYPE OF MANHOLE | | |
|-------|----------|--------|---------------------|-----------------|-----------------|------------|---------------|------------------------|---------|-----------------|----------------|-----------------|----------|-----------------|--------|-------|
| 1. | D1 | T6 | Self | Total | (lps) | (mm) | 1 in | (lps) | Start | End | Start | End | Start | End | | |
| 2. | D1 | D2 | 0.00 | 406.40 | 0.706 | 450 | 0.677 | 85.118 | 0.022 | 99.574 | 98.752 | 98.374 | 98.352 | 1.200 | | |
| 3. | D2 | D3 | 0.00 | 568.96 | 0.988 | 400 | 0.908 | 114.198 | 0.056 | 99.574 | 99.518 | 98.718 | 98.318 | 1.200 | | |
| 4. | D3 | D4 | 1219.20 | 568.96 | 1219.20 | 2.117 | 400 | 0.908 | 114.198 | 0.064 | 99.518 | 99.454 | 98.718 | 98.254 | 1.200 | |
| 5. | D4 | D5 | 1869.43 | 4233.39 | 400 | 2.346 | 400 | 0.908 | 114.198 | 0.056 | 99.454 | 99.390 | 98.654 | 98.590 | 1.200 | |
| 6. | D5 | D6 | 1869.43 | 2438.39 | 400 | 4.233 | 400 | 0.908 | 114.198 | 0.060 | 99.390 | 99.334 | 98.534 | 98.490 | 1.200 | |
| 7. | D6 | D7 | 2418.39 | 3047.99 | 400 | 5.292 | 400 | 0.908 | 114.198 | 0.064 | 99.334 | 99.274 | 98.534 | 98.474 | 1.200 | |
| 8. | D7 | D8 | 3047.99 | 6421.00 | 400 | 6.421 | 400 | 0.908 | 114.198 | 0.064 | 99.274 | 99.210 | 98.474 | 98.410 | 1.200 | |
| 9. | D8 | D9 | 6421.00 | 3698.23 | 400 | 7.549 | 400 | 0.908 | 114.198 | 0.064 | 99.210 | 99.146 | 98.410 | 98.346 | 1.200 | |
| 10. | D9 | D10 | 3698.23 | 4348.47 | 400 | 8.678 | 400 | 0.908 | 114.198 | 0.064 | 99.146 | 99.082 | 98.346 | 98.282 | 1.200 | |
| 11. | D10 | D11 | 4348.47 | 4998.71 | 400 | 9.737 | 400 | 0.908 | 114.198 | 0.060 | 99.082 | 99.022 | 98.282 | 97.882 | 1.200 | |
| 12. | D11 | D12 | 4998.71 | 609.60 | 400 | 10.936 | 400 | 0.908 | 114.198 | 0.068 | 99.022 | 98.954 | 98.222 | 97.754 | 1.200 | |
| 13. | D12 | D13 | 609.60 | 0.00 | 609.60 | 1.058 | 400 | 0.908 | 114.830 | 0.125 | 99.938 | 99.813 | 99.138 | 99.013 | 1.200 | |
| 14. | D13 | D14 | 0.00 | 609.60 | 1219.20 | 2.117 | 400 | 1.311 | 164.830 | 0.125 | 99.813 | 99.688 | 99.013 | 98.888 | 1.200 | |
| 15. | D14 | D15 | 0.00 | 609.60 | 1219.20 | 3.175 | 400 | 1.311 | 164.830 | 0.125 | 99.688 | 99.563 | 98.888 | 98.763 | 1.200 | |
| 16. | D15 | D16 | 0.00 | 609.60 | 1828.79 | 4.233 | 400 | 1.311 | 164.830 | 0.125 | 99.563 | 99.438 | 98.763 | 98.638 | 1.200 | |
| 17. | D16 | D17 | 0.00 | 609.60 | 2438.39 | 5.292 | 400 | 1.311 | 164.830 | 0.125 | 99.438 | 99.313 | 98.638 | 98.513 | 1.200 | |
| 18. | D17 | D18 | 0.00 | 609.60 | 3047.99 | 5.644 | 400 | 1.311 | 164.830 | 0.042 | 99.313 | 99.273 | 98.513 | 98.488 | 1.200 | |
| 19. | D18 | D19 | 0.00 | 609.60 | 3251.19 | 6.058 | 400 | 1.311 | 164.830 | 0.060 | 99.518 | 99.458 | 98.718 | 98.658 | 1.200 | |
| 20. | D19 | D20 | 0.00 | 609.60 | 609.60 | 1219.20 | 2.117 | 400 | 1.311 | 164.830 | 0.060 | 99.458 | 99.398 | 98.658 | 98.598 | 1.200 |
| 21. | D20 | D21 | 0.00 | 609.60 | 2438.79 | 3.175 | 400 | 1.311 | 164.830 | 0.060 | 99.398 | 99.338 | 98.598 | 98.538 | 1.200 | |
| 22. | D21 | D22 | 0.00 | 609.60 | 2438.39 | 4.233 | 400 | 1.308 | 164.830 | 0.060 | 99.338 | 99.278 | 98.538 | 98.478 | 1.202 | |
| 23. | D22 | D23 | 0.00 | 609.60 | 3047.99 | 5.292 | 400 | 1.308 | 164.830 | 0.060 | 99.278 | 99.218 | 98.478 | 98.418 | 1.200 | |
| 24. | D23 | D24 | 0.00 | 609.60 | 3657.59 | 6.350 | 400 | 1.308 | 164.830 | 0.125 | 99.218 | 99.144 | 98.418 | 98.293 | 1.200 | |
| 25. | D24 | D25 | 0.00 | 609.60 | 609.60 | 1219.20 | 2.117 | 400 | 1.308 | 164.830 | 0.060 | 99.144 | 99.062 | 98.393 | 98.258 | 1.200 |
| 26. | D25 | D26 | 0.00 | 609.60 | 1219.20 | 3.175 | 400 | 1.308 | 164.830 | 0.060 | 99.062 | 98.983 | 98.318 | 98.258 | 1.200 | |
| 27. | D26 | D27 | 0.00 | 609.60 | 2438.79 | 4.233 | 400 | 1.308 | 164.830 | 0.060 | 98.983 | 98.923 | 98.318 | 98.258 | 1.200 | |
| 28. | D27 | D28 | 0.00 | 609.60 | 2438.39 | 5.292 | 400 | 1.308 | 164.830 | 0.060 | 98.923 | 98.862 | 98.318 | 98.258 | 1.200 | |
| 29. | D28 | D29 | 0.00 | 609.60 | 3047.99 | 6.350 | 400 | 1.308 | 164.830 | 0.060 | 98.862 | 98.801 | 98.318 | 98.258 | 1.200 | |
| 30. | D29 | D30 | 0.00 | 609.60 | 3657.59 | 7.406 | 400 | 1.308 | 164.830 | 0.060 | 98.801 | 98.741 | 98.318 | 98.258 | 1.200 | |
| 31. | D30 | D31 | 0.00 | 609.60 | 406.40 | 8.464 | 400 | 1.308 | 164.830 | 0.060 | 98.741 | 98.681 | 98.318 | 98.258 | 1.200 | |
| 32. | D31 | D32 | 0.00 | 609.60 | 1219.20 | 9.521 | 400 | 1.308 | 164.830 | 0.060 | 98.681 | 98.621 | 98.318 | 98.258 | 1.200 | |
| 33. | D32 | D33 | 0.00 | 609.60 | 1869.43 | 10.579 | 400 | 1.308 | 164.830 | 0.060 | 98.621 | 98.561 | 98.318 | 98.258 | 1.200 | |
| 34. | D33 | D34 | 0.00 | 609.60 | 2418.39 | 11.637 | 400 | 1.308 | 164.830 | 0.060 | 98.561 | 98.501 | 98.318 | 98.258 | 1.200 | |
| 35. | D34 | D35 | 0.00 | 609.60 | 3047.99 | 12.695 | 400 | 1.308 | 164.830 | 0.060 | 98.501 | 98.441 | 98.318 | 98.258 | 1.200 | |
| 36. | D35 | D36 | 0.00 | 609.60 | 3657.59 | 13.753 | 400 | 1.308 | 164.830 | 0.060 | 98.441 | 98.381 | 98.318 | 98.258 | 1.200 | |
| 37. | D36 | D37 | 0.00 | 609.60 | 4222.40 | 14.811 | 400 | 1.308 | 164.830 | 0.060 | 98.381 | 98.321 | 98.318 | 98.258 | 1.200 | |
| 38. | D37 | D38 | 0.00 | 609.60 | 1771.16 | 15.869 | 400 | 1.308 | 164.830 | 0.060 | 98.321 | 98.261 | 98.318 | 98.258 | 1.200 | |
| 39. | D38 | D39 | 0.00 | 609.60 | 2271.70 | 16.927 | 400 | 1.308 | 164.830 | 0.060 | 98.261 | 98.201 | 98.318 | 98.258 | 1.200 | |
| 40. | D39 | D41 | 0.00 | 609.60 | 2369.03 | 17.985 | 400 | 1.308 | 164.830 | 0.060 | 98.201 | 98.141 | 98.318 | 98.258 | 1.200 | |
| 41. | D41 | D42 | 0.00 | 609.60 | 2430.65 | 18.043 | 400 | 1.308 | 164.830 | 0.060 | 98.141 | 98.081 | 98.318 | 98.258 | 1.200 | |
| 42. | D42 | D43 | 0.00 | 609.60 | 2430.97 | 18.109 | 400 | 1.308 | 164.830 | 0.060 | 98.081 | 98.021 | 98.318 | 98.258 | 1.200 | |
| 43. | D43 | D44 | 0.00 | 609.60 | 2430.65 | 18.167 | 400 | 1.308 | 164.830 | 0.060 | 98.021 | 97.961 | 98.318 | 98.258 | 1.200 | |
| 44. | D44 | D45 | 0.00 | 609.60 | 2430.97 | 18.225 | 400 | 1.308 | 164.830 | 0.060 | 97.961 | 97.901 | 98.318 | 98.258 | 1.200 | |

FRA
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.

| 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. |

For GCC INFRA

 Authorised Signatory

| 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 Protrg. | Total | (lps) | (mm) | 1 in | | | | | | | | | |
| 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 | 97.331 | 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 | 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 | 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 | 1.245 | A |
| 49 | D43 | 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 | 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 | 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 | 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 | 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 | 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 | 98.192 | 98.128 | 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 | 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 | 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 | 97.944 | 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 | 97.868 | 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 | 97.792 | 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 | 97.716 | 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 | 1.200 | 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 | 97.849 | 97.449 | 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 | 97.829 | 97.465 | 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 | 97.429 | 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 | 97.737 | 97.644 | 1.200 | 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 | 1.201 | 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 | 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 | 97.435 | 97.495 | 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 | 1.267 | A |

For GCC INFRA

 Authorised Signatory