Directorate of Town & Country Planning, Haryana

SCO-71-75, 2nd Floor, Sector-17-C, Chandigarh, Phone: 0172-2549349 Web site tcpharyana.gov.in - e-mail: tcpharyana2@gmail.com

Regd.

Dated:

Ananddham Realtors Pvt. Ltd., C/o Ansal Properties & Infrastructure Ltd, 115, Ansal Bhawan, 16 Kasturba Gandhi Marg, New Delhi-110001. Email – apisanctions hr@ansalapi.com

Memo. No. LC-1575-PA(SN)-2016/ /0982

Subject: Approval of service plan/estimate in license no 291 of 2007 dated 31.05.2007 granted for setting up of a Commercial colony over an area measuring 4.237 acres falling in Sector-67 of Gurgaon-Manesar Urban Complex, Distt. Gurgaon.

Kindly refer your application on the subject noted above.

The Service Plans/Estimates in respect of commercial colony under the Licence no. 291 of 2007 dated 31.05.2007 granted for an area measuring 4.237 acres falling in Sector-67 of Gurgaon-Manesar Urban Complex, Distt. Gurgaon being developed by you has been checked and corrected wherever necessary by Chief Administrator, HUDA, Panchkula and are hereby approved subject to the following terms and conditions :-

- a. You will have to pay the proportionate cost of external development charges for the services like water supply, sewerage, storm water drainage, roads, bridges, community buildings, street lighting, horticulture etc. on gross acreage basis as and when approved by the Director. These charges are modifiable as and when approved by the Government and modified charges will be binding upon the colonizer.
- b. 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.
- c. You are liable to maintain the estate developed by you as per HUDA norms till such time the colony is taken over by the Local Authority/State Govt.
- d. The wiring system of the street lighting will be under ground and the specifications of the street lighting fixture etc. will be as per relevant standard of HVPNL.
- e. That appropriate provision for fire fighting as required in the NBC/ISI code should also be provided by you and a fire safety certificate will be obtained by you from the Competent Authority before undertaking any construction. You will be sole responsible for fire safety arrangements.
- f. You will be fully responsible to make the arrangement of disposal of sewerage and storm water drainage till such time these are made available by HUDA and all link connections with the external system will be done by you at your own cost. You will have to ensure that sewer/storm water drainage to be laid by you will be connected by gravity with the master

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services laid/to be laid by HUDA/State Govt. in this area as per your scheme. In case pumping is required the same will be done by you at your own cost.

- g. It is made clear that there will be no pollution due to disposal of sewerage of the colony. The disposal of effluent should be in accordance with the standard norms fixed by the Haryana State Pollution Control Board/Environment Department.
- You will be responsible regarding the portability of the water before supply the water to the resident as presently tubewell based water supply is proposed.
- That you will have to make provision of separate flushing line, storage tank, pumping system and plumbing of recycled water. 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.
- It is made clear that roof top rain harvesting system shall be provided by you as per norms and the same shall be kept operational/maintained all the time. The arrangement for segregation of first rain shall be made by you.
- k. The correctness of the levels of the colony will be sole responsibility of the colonizer for integrating the internal sewer/storm water drainage of the colony by gravity with the master services.
- The estimate do not include the provision of electrification of the colony, therefore the supervision charges and O & M charges shall be paid by the you directly to the HVPNL.
- m. You will be responsible for the construction of various structures such as RCC underground tank etc. according to the standard specifications, good quality and its workmanship. The structural stability responsibility will entirely rest upon you.
- n. In case some additional structures are required to be constructed and decided by the Director General/HUDA at a later stage, the same will be binding upon you.
- You will not make the connection with the master services i.e. water supply, sewerage, storm water drainage without getting its approval from the competent authority.
- p. Levels/extent of the services to be provided by the HUDA i.e. water supply, sewerage will be proportionate of EDC deposited.
- q. 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 be part of the building works.
- r. Solar water heating system shall be provided by you as per the norms approved by the Haryana Govt.
- s. That the land under service road shall be transferred to HUDA for construction of service road and the proportionate cost for the same shall be paid by you.

- t. In case, it is decided by Govt. that HUDA/Govt. will construct 24 m wide road and will extend master services on 24 m internal circulation road then additional amount at rate as decided by the authority/Govt. will be recoverable over an above EDC.
- u. That construction of master road is yet to take place. Therefore, you will get the road level/formation level of your services fixed from the concerned Superintending Engineer, before execution.
- v. In case, some additional structures are required to be constructed and decided by the HUDA at a later stage, the same will be binding upon you. Flow control valve will be installed preferably of automatic type on water supply connection with HUDA water supply line.
- w. You will comply with the conditions as specified in Annexure 'A' attached with service plan/estimates and also abide by terms and conditions mentioned in the approved letter of Service Plan Estimate of said colony, issued by CA, HUDA vide letter dated 10.04.2015 (Copy enclosed).
- x. That you shall submit the approved electrical estimates plan for electrical infrastructure from HVPN within 60 days and submit the same in this office for approval.

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



DA/As above

District Town Planner (HQ) O/o Director General, Town & Country Planning Haryana, Chandigarh

Endst. No LC-1575-PA(SN)-2016/

Dated :

A copy is forwarded to the Chief Administrator, HUDA, Panchkula with reference to his memo No. CE-1/EE(W)/CHD(G)/2015/4054 dated 10.04.2015 for information and necessary action please.

District Town Planner (HQ) O/o Director General, Town & Country Planning Haryana, Chandigarh The Chief Administrator, HUDA, Panchkula.

The Director General, Town and Country Planning, Haryana, Chandigarh.

Memo No: - CE-I/EE (W)/CHD(G)/2015/ 4 95 4

Approval of Service plan estimate for Commercial Colony for an area measuring 4.237 acres (license No 291 of 2007 dated 31.12.2007) at Village Badshahpur, Sector-67, Gurgaon being developed by M/S. Ansal API, C/o JMD Ltd.

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Please refer to your office Endst. No. ZP-347/ AD(RA)/2013/57350- 58 dated

13.11.2013 ,vide which the revised building plans of Commercial Colony cited in the subject above were approved by your office.

The rough cost estimate / service plans for providing Public Health/B&R Services to be provided by the colonizer M/S. Ansal Properties & Infrastructure Ltd. C/o JMD Ltd. falling in their Commercial Colony on the land measuring 4.237 acres area (license No. 291 of 2007 dated

31.12.2007) at Village Badshahpur, in Sector-67, Gurgaon, have been received from SE, HUDA, Circle-II-Gurgaon vide his Memo No. 2732 dated 04.03.2015. The same have been checked and corrected wherever necessary and are sent herewith for execution as well as for Bank Guarantee purpose, subject to the following comments:-

1. EXTERNAL DEVELOPMENT CHARGES:-

The colonizer will have to pay the proportionate cost to the external development charges for setting up Commercial Colony for the services like water supply, sewerage, storm water drainage, roads, bridges, community building, street lighting, horticulture and maintenance thereof etc. on gross acreage basis as and when determined by HUDA. These charges will be modifiable as and when approved by the authority/State Govt. and will be binding upon the colonizer.

DENSITY/AREA/POPULATION:-

The scheme has been designed considering one person per 3 Sqint. on G.F., One Person per 6 Sqint. on F.F. for retail in block-A,B & C and One person per 10 Sqint. on upper floor i.e. 2nd floor to 8th floor for office use in block-C and 135 Nos. service apartment on upper floor i.e. 2nd floor to 6th floor in block-B, within 29996.665 Sqint. FAR. have been proposed. This may be checked and confirmed by your office that overall density as taken is correct and overall density of sector should be maintained according to final development plan of Gurgaon Town. The category wise area as shown on the plans and proposed density of population thereof has been treated to be correct for the purpose of estimation/services.

- All technical notes and comments incorporated in this estimate in two sheets will also apply. A copy of these are also appended as Annexure.⁴ A².
- The title and name of the License may be examined by your office.

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5. STREET LIGHTING:-

The wiring system of street lighting will be as per the relevant standard of HVPNL/DHBVNL and being followed by HUDA in their sector. The firm shall provide automatic on off system street lighting in the complex.

6. FIRE FIGHTING:-

The provision made in the estimate has been checked for estimation purpose. However, it may be made clear to the colonizer that the appropriate provision for firefighting arrangement, as required in the NBC/ISI, should also be provided by the

colonizer and fire safety certificate should also be obtained by the colonizer from the competent authority before undertaking any construction. The colonizer will be solely responsible for fire safety arrangement.

7. AIR TRAFFIC RULES/REGULATIONS:-

The Commercial Complex Project consists the construction of multi-storeyed building(G+8) stoeyed building, RCC water tower has been proposed on the top of the building. The total height of the building and top of the water tower above ground level has not been defined/ indicated on the plans. The violation of Air Traffic Rules/Regulations and height of the building may be examined by DGTCP office.

The revised layout plan for setting up of Commercial Colony having an area of 4.237 acres area approved by your office No. ZP-347/ AD(RA)/2013/57350-58 dated 13.11.2013 annexed with the estimate have been considered to be correct for the purpose of estimation/service only.

9. MAINTENANCE OF SERVICES:-

The Mtc. charges for various services like water supply, sewerage, SWD, roads, street lighting, Hort., etc. and resurfacing of roads have been included in the estimate as per details given in the estimate and the total cost works out to be **Rs. 134.04 Lacs**, as they are liable to maintain the estate developed by them as per HUDA norms, till such time, the colony is taken over by the local authority/State Govt.

- 10. It may be made clear to the colonizer that level/extent of external services to be provided by HUDA will be in accordance with EDC deposited. The colonizer will be fully responsible to meet the demand, to dispose off effluent and rain water till these services are provided by HUDA.
- The correctness of the levels of the colony will be sole responsibility of the colonizer for integrating the internal/sewerage, storm water drainage of the colony by gravity with the master services.
- 12. The service estimate as received has been checked in this office with the consideration that layout plans appended in the services estimate has been checked/ approved by competent authority.
- 13. The estimate includes the provision of electrification of the colony. (Street lighting only) However, it may be made clear to the colonizer that the supervision charges and O & M charges shall be paid by them directly to the HVPNL/DHBVNL. The firm shall provide automatic on-off system for street lighting in the complex.

It shall be mandatory for the firm to provide Solar Water Heating System as per HAREDA specifications. An undertaking in this regard shall be furnished by the owner to DGTCP (Hr.) at the time of Grant of Occupation Certificate.

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- 15. It is made clear to the colonizer that release of water for external source will take about 2 to 3 years for the new licensed area subject to the following:-
 - Supply of adequate quantity of raw water at tail of NCR water supply channel by Irrigation Deptt. and timely completion of water treatment plant at Chandu Budhera Water Works.
 - ii) Availability of litigation and encroachment free land.
 - Required quantity of raw water will be made available by irrigation deptt.
 - iv) Permission within reasonable period from forest and environment department where ever required.
 - v) Till the water supply and other services are made available by HUDA, the licensees will have to make their own arrangements. T/Well can be bored with permission from Central Ground Water Board and other concerned authority, for the drinking purposes only. But no under ground water supply shall be used for construction purposes.
 - vi) HUDA shall supply the drinking water only to the license granted in the master plan area.
 - vii) HUDA shall provide water supply along NPR/SPR at the initial stage and various colonizer will have to take connection from this water supply main up to their site at their own expenses till the land of master road in circling the licensed area is acquired and the area in between licensed area and the NPR/SPR is further acquired by HUDA or licensees.
 - viii) Developers will disclose the source of water for construction purposes.
 - Recycled water is proposed to be utilized for flushing purposes. The firm has made provision of separate flushing line, storage tank, metering system, pumping system and plumbing. It may be clarified to developer 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 of each other, will be adopted, one for potable water supply and second for recycled water. 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

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water which should be above sewer. Minimum clear vertical separation between a potable water line and a recycled water line shall be one foot, if 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, fittings, 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.
 - It shall be mandatory for the firm to provide dual/two button or lever flush system in toilets.

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- It may be made clear to the colonizer that there will be no pollution due to disposal of sewerage of their colony. The disposal of effluent should be in accordance to the standard norms, fixed by the Haryana State Pollution Control Board/Environment Deptt.
- The colonizer will be responsible for the construction of various structures such as RCC UGT and OHSR; water/sewage treatment plant etc. according to the standard specification. Good quality workmanship and water tightness of all the structures will be responsibility of the colonizer.

In case some additional structures are required to be constructed, as decided by the HUDA at a later stage, the same will be binding upon the colonizer .Flow control valves will be installed, preferably of automatic type, on water supply connection with HUDA water supply line.

- In case it is decided by Govt. that HUDA/Govt, will construct 24 Mtrs. Wide road and will extend master services on 24 Mtrs. Internal circulation road then additional amount and rates as decided by the authority/Govt. will be recoverable over and above EDC.
- 22. Since the construction of master road is yet to take place, the developer will get the road level/formation level of his services fixed from the concerned Superintending Engineer, before execution.
- 23. The formation level of internal roads should match with the sector roads, similarly other services of colonizer like water supply, sewerage and SWD level etc. should also be fixed in integration of levels of EDC services of water supply, sewerage & SWD etc.
- CFL lamp shall be provided by the firm for external lighting in respect of energy conservation.
- Levels of the external services to be provided by HUDA i.e. water supply sewerage will be proportionate to EDC deposited.
- 26. That the owner will not resort manual scavenging by engaging sanitation works for cleaning of septic tanks/ such cleaning as per the decision taken in the meeting of the Central Monitoring Committee (CMC) held under the Chairmanship of Cabinet

Secretary on 22.03.2013 (D.O. No. Q. 11021/12/2010-PHE-II (Vol. IV dated 7th Feb. 2013' of secretary to the Govt. of India of Urban Development and further order by the Principal Secretary to Govt. Haryana, Urban Local Bodies Deptt., Chandigarh vide letter No. 16/24/2013-2C1 dated Nil.

27. SPECIAL CONDITIONS:-

The developer has to dismantle and relocate his services even after laid, wherever required to suit the size, capacity and levels of HUDA services in the area/sector, if any.

- These services at later stage, if required, will have to correlate with the services falling in the land of other licensee/developer adjacent to the land of this colonizer have to re-lay & relocate for their size, capacity and levels to give continuity of proper approach, to maintain the loops and grid of water supply distribution line and functioning of sewer and storm water drainage & other services in the public interest. The developer has to obtain prior permission from the concerned authority if the services are to be laid through revenue rasta or other land before laying of services. It will be ensured by the colonizer to install double botton system in flushing cistern in all toilets in various building to be constructed in his licensed area.
- Similarly, the common services if decided to be laid by HUDA along 24mtr wide road / master roads against the development charges charged by HUDA for common benefit of all developers in the sector, the developer shall have to dismantle and relocate his already laid services, wherever required to suit the size, capacity and levels of HUDA services in the area / sector.

Permission for competent authority shall be obtained prior to boring/drilling of tube wells. Further, approval of service plan/estimate with tube well provision does not entitle the colonizers to drill tube well. It is pertinent to mention here that at present HUDA has not laid master water supply in the area. Water so obtained from tube well shall be used only for drinking purposes and shall not be used for construction purpose.

28.COMMON SERVICES:-

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- (i) The estimate does not include the common services like water supply, storage tank on the top of the building block, the plumbing works etc. and will be part of the plumbing work.
- (ii) The firm will provide solar water heating system as per the guidelines issued by the Haryana Govt./Ministry of Environment, Govt. of India.

29. CONSTRUCTION ACTIVITY OF PROJECT:-

- a) It is clearly stated that the firm/developers shall not be allowed to carry out the construction with underground water.
- b) The firm shall also show the source from where the water supply will be taken for construction purpose.

The estimated cost of various services to be provided by the colonizer for the development of internal services has been checked and corrected for the purposed of bank guarantee and work out as under:-

Sr. No:	DESCRIPTION	AMOUNT IN LACS.
1.	Water Supply	Rs. 144.90 Lacs.
2.	Sewerage	Rs 95.39 Lacs.
3.	Storm Water Drainage	Rs. 53.32 Lacs.
4.	Roads	Rs. 105.22 Lacs
5.	Street Lighting	Rs. 16.24 Lacs.
6.	Horticulture	Rs. 5.75 Lacs.
7.	Maintenance of services for ten years including resurfacing of road after Ist five years and IInd five years of maintenance (as per HUDA norms)	Rs. 134.04 Lacs.
	or maintenance (as per HODA horms)	Rs. 554.86 Lacs

Say Rs: 554.90 Lacs.

Dev. Cost per acre =554.90 Lacs/4.237 acres= Rs 130.96 Lacs per gross acre.

Two copies of the estimate along with Four plans and proposal as received are returned herewith duly corrected and signed for further necessary action.

It is requested to get three copies of the estimate/service plan from the colonizer for

distribution amongst the field station.

DA/-Estimate in duplicate along with Four plans & Annexure-A.

Endst. No: -

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A copy of the above is forwarded to the Superintending Engineer, HUDA, Circle-II-Gurgaon for information with reference to his Memo No. 2732 dated 04.03.201.

For

For

Executive Engineer (W), Chief Administrator, HUDA, Panchkula

Executive Engineer (W),

Panchkula

Chief Administrator, HUDA,

Dated:-

C.E. No. 4074 Dated 10/4/11

Annexure-A

SUB:- Approval of Service plan estimate for Commercial Colony for an area measuring 4.237 acres (license No. 291 of 2007 dated 31.12.2007) at Village Badshahpur, Sector-67, Gurgaon being developed by M/S. Ansal API, C/o JMD Ltd.

Technical note and comments:-

- All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
- 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.
 - The material to be used shall the same specifications as are being adopted by HUDA and further shall also confirm to such directions, as issued by Chief Engineer, HUDA from time to time.
- 4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HUDA. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HUDA from time to time.
 - 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/ HUDA. All link connections with the State Government/ HUDA 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.
 - 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 LS codes and PWD specifications; colonizer himself will be responsible for structural stability of all structures.

Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.

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C.E. No. YOTY Dated: - 10/4/15

- Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.
- 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.
- Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followe⁺ as are being adopted in Haryana Public Health Engineering Deptt.or HUDA.
 - 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.
- The specifications for various roads will be followed as per IRC/MORTH specifications.
- The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
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This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

For

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Executive Engineer (W), Chief Administrator, HUDA, Panchkula

EXTERNAL DEVELOPMENT WORKS DESIGN AND COST ESTIMATES

FOR

PROPOSED MIX-USE DEVELOPMENT JMD SUBURBIO-1 on 4.237 ACRES in SECTOR-67, GURGAON (HARYANA)

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mis Ansal APS c/o Jmp Ltd

DEVELOPED BY:

M/S JMD Developers Pvt. Ltd.

PROPOSED MIX-USE DEVELOPMENT JMD SUBURBIO-1 IN SECTOR - 67 (ON 4.237 ACRES) IN GURGAON HARYANA

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 4,237 ACRES JMDSUBURBIO-1 IN SECTOR-67, GURGAON, HARYANA

GURGAON town of Haryana State situated on National Highway No.8 at a distance of 20 km, from Delhi, Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Government to establish various residential Sectors along-with infrastructure facilities in Gurgaon. This report is for Proposed Mix-Use Development on 4.237 Acres in, Sector - 67 al Gurgaon.

WATER SUPPLY

The source of water supply in this area is by HUDA. It has been proposed to construct underground tanks of capacity as per attached details and at location for domestic purpose and for fire protection. The underground tanks will be fed from the HUDA supply, which will feed O.H. tasks on the roof of the Buildings. The water supply system has been designed as per the Hiszen Williams formula.

DESIGN

The scheme has been designed for population of approx, 4535 persons considering five persons for each main dwelling unit. The combined quantum of water supply (domestic + flushing) per head/day has been taken as 172.50 Liters per head per day for apartment and 45 Liters per day for office/ratail.

PUMPING REQUIREMENTS

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. Generator will be provided separately or added to the capacity of main generator

SEWERAGE SCHEME

This scheme is designed for sewer connecting to the STP and hypass connection to HUDA sewer scheme.

The sewer lines have designed for three times average D. W. F. in relation to water supply demand. It has assumed that about 90% of the demestic water supply shall find its way into the proposed sever. Sever lines would be laid in a gradient maintaining minimum 2.45 ft/sec self-cleaning velocity. Sever line upto 200mm dia has been designed to run half-full and above 400mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying SVW RCC pipe sewer line, construction of required number of manholes etc., have been made in the estimate.

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

STORM WATER DRAINAGE

It has proposed to lay underground RCC pipe drains with required number of catch basins for disposal of storm water, which will be connected to the HUDA drain. The intensity of rainfall has been taken as 6.25 mm per hour. A minimum size of 200 mm dia RCC storm water line will be provided and designed as per manning's formula. Necessary rainwater harvesting arrangement also has been provided.

RISING MAIN

Rising main from HUDA water main or sector road to water work have also been proposed as provision has been made in this estimate.

FIRE

As per N.B.C. (National Building Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarity irrigation pumps of required capacity provided as shown on the plan.

SPECIFICATIONS

The work will be carried out in accordance with the standard specifications of PHE as laid down by the Haryana Govt / HUDA.

ROADS

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

STREETLIGHTING

Provision of lighting on surrounding area 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

90 649.65

The total cost of the scheme, including cost of all services works out to Rs. 494.85 Lacs including 3% contingencies and 49% departmental charges, price escalation & other unforseen charges.

for M/s JMD DEVELOPERS Pvt. Ltd.

or JMD Limited

(Authorized Signatory

Block A

Floating Permanent SHOP. GF 388.11 SIM /3 = 130 FF 384.881 SIM /6 = 64 39 200 parm 91 person 58 200 Block-B SHUB GE 1269.369/3 = 423 EF 1003.713/6 = 167 296 123 150 2nd floor to 6th floor senice apportments 135 No, 5699-15 500 135 occupancy, @ 2 Person Por Room 135×2= 270 Person Block-C 3929-369/3 = 13/0 NO 917NO 393 Stops GF 3191-007/6 = 53246 439 53 office 22nd to 8th Floor 14130.69 Spros /10 = 1413 1292 141 997 25 3042 105 Total FAR, 29996.665 SPM Permanent Population @ 45 LPCd × 3042 = 136890 Lin 14955 Cm Floating population @ 15 LPCdx 997 -AMINGROUP BIOTICITY 46575 CR Semia appartment @ 172.50 × 270 = 198420 Ch 19842 (2-Add 10% for misc. staff 218 262 Ch

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-	Fith Flox 0 Fit (Bo	4	2339.62	10	228	E 45	10575 2	1
	Skih Fixor	1	2314.6	10		/ 45	10576	1
	Seventh Floer	4	1708.801	10	176	45	7175	1
	Eighth Floor	1	745.14		1000000.75	45	3176	0
-		S	226177	100 million 100	4631	1.	and the second second	197-5
	Total				176. 00	-	-954535. 7	5 10 7
_	Adding 10% For Disc. & Contingencies	S 25	1	-	967		.38464	2811
-	mite . 44-11 etc.		-		Gentio	-	SP/VAL	0 0017-23
	Grand Total					-	991101	301311-
_	Bay in KLO				-		-392	3tokel
otal W Q Q Q	Per Denned Is m ² / stry For Denneste Purpose C. 557. For Harticulture Purpose C. 1577. For Harticulture Purpose C. (b. LCL Por Bland Planetton Purpose		00	137Acre)	14:	105-	m² iday m² iday m² iday m² iday	22.0 140
b)	Per LandscaperBandering Purpose (Soy Dr	41+26)		180	17 57 80 - 340- 340-	m ² day m ² Alay KLD	
4	UNDER GROUND & OVERHEAD WA	TER TANKS			1.1	lin		
1	Total water demand (Daily for Domestic purposes)				-	Too from	ND Sat	150 PL
8	Proposed underground tanks for demestic use. (One Day Starage)				150	-ton-	KL.	
9	Proposed Overhead tires for demostic saw. (Helf Day Storage)				\$75	102/20-	H. Yava	ased 110 KL

Built is proposed to construct an underground tank of 110 for new wells. 110 Killer domatic use in two compariments, nos pertable water from STP and 349-KL for the fighting purpose in three compariments as the social construction in plan.

310

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Minimum Deparate Static Storage. Re: Trix fighting purpose previded.



PUMPS FOR FIRE PROTECTION

i. No.	Engoteters	 Water Cartain	Barinkler	Hydrait	Jockey	Daget
6	Clackarge in ites	22,93	2850	2890	580	4500
0	Histori in methods	70	6.8.	68	88	44
d.	44				6	135
00	Gammbly In Nos.				2	1

GENERATING BUTT

HP of	Treasment Pump
IP at	Domentic Pump
HP of	Flushing Pump
HP of	Intgation Pump
HP of	Jockey pump
	Tatal
	In KWA
	Sau



Say so know

PROPOSED MIX-USE DEVELOPMENT JMD SUBURBIO-1 IN SECTOR - 67 (ON 4.237 ACRES) IN GURGAON HARYANA

FINAL ABSTRACT OF COST

		Amount in Rs. (Lacs)	
SUB WORK NO. I	WATER SUPPLY & FIRE FIGHTING SCHENE	-17233	216.31
SUB WORK NO. II	SEWERAGE SCHEME	144.90	76-85
SUB WORK NO.11	STORM WATER DRAINAGE	90.70	84.03
SUB WORK NO.IV	ROADS & FOOT PATHS	30.05	136-85
SUB WORK NO.V	BIREET LIGHTING	-11-0-	8.15
SUB WORK NO. VI	HORTICULTURE	300-1	3-64
SUB WORK NO, VII	MTC CHANGES INCL RESURFACING OF ROADS AFTER 161 S YEARS AND 2nd YEAR OF MTC ASHUDA	134.04	123-85
	TOTAL	559.86	019.65 lass.

the law and sixty five thousand only). Soft 554.90 les (Runoes F Six core forty

AUTHORISED SIGNATORY

For JMD Li-

Authorised Signatory

meter Buperinternting ingineer. HUDA, Circle-II iu:geon 1 Q.

Cost les Age: 549-65 : P. 130.97 las les Acre.

qineer Exect HUDA Division No. I GURGAON

Executive Engineer (W) for Chief Engineer NDA Panchkula

CETUTI

Director General Fown & Country Planning Haryans

de

BUB WORK No. 1 (Abstract of Gest)

Water Supply & Fire Fighting

	Sub-Head No. 01	Head Works	Re IN. Lac	14700007
	Sub Head No. 02	Pumping Machinery	*100000000 35:5	8250000/.
	Sub Head No. 03	Riseng Main	-1455000.00-	19230001-
	Sub Head No. 04	Distribution System	20016600	662000t-
3	Sub Head No. 06	Fire rising Main	1070000.00	1433750-
	Sub Head No. 06	Inigation	61600000	455800/-
		TOTAL	-11288850:00	140 94552-
		Add 3% contingencies & Phi Charges	331358.50	422837/
		TOTAL	44565818-50	+4517387
		Add49% Departmental charges	97.25	74135197
		TOTAL	47212069-67	2163090
		Say in lacs	172.00-	

216-31 las.

Levelon le restros me met a 20 000 (L.L) . Photodas FOJ NO. 5 Abolunc - abe grade vol mat ·h Complete in all seafeer (5.7) 507 21.0 comprose your moral simps of med 2 2. Particion on so t. w. Sor driverof w.r & 100 Kr Zor Blueburg eserences = 63010 4133000-00 path 1 50 50.00 008 A ni trainona - most ath Head Works 10 .ON broth due Water Supply & Fire Fighting F. ON NOW due

& 34.5 Cos 5

Sub Work No. 1 Sub Head No. 02 Water Supply & Fire Fighting **Pumping Machinery** Amount in Rs.

1.1 Providing and installing electricity driven pumping Set capable of delivering about 200 LPM of water against a total Head of S& M complete with motor and other accessories (2119) 10 119 - 1 nos(1w+1s) (2) Rs. 195,000 Each - 10 119 - 2-00 LAS

2 Provision for diesel engine genset each for stancity arrangements For Pumps complete with gear head emangements 1 No ++ KVA @ Rs #10,000 Each

Providing and metalling pumping set of following capables for 3 Fire protections:

180 Ipm at 88M head 2 No. @ Hs 260,000/- Each -2850 lpm at 88M head 2 No. CG pump @ Rs. 1994009-Each 7+5* 2950 lpm at 88M head 1 Nos. @ Rs. 1000,0007-Each

4800 (pm at 80M head 1 Nos. () Rs. 2960;000/ Each

Provision for installing pumping set of following opposities for domestic 285 4 water

4 (ps at 58 mir haati 2 nus (§ 166000 (SPP) 0.75

5. Provision for installing pumping set of following aspecifies for flushing water 0.1 2 bs at 58 mtr hoad 2 nos @ 206990 (21-P)

 Provision for installing pumpingstat of following capacities for ingation. water 2 (ns at 48 mir head 2 nm (§ 125000 (26-P)

7 Provision for chlorination plant complete * No. 12 Ps. 800004 Each

Provision for making foundations and erection of Pumping 8 Machinery:

- Lump Sum

Provision for pipes, valves and specials inside boosting 8. chamber.

- Lump Bunt

10. Provision for electric service connection including electrical unpour incl. cast of Transformer (4.57

11. Provision for carriage of material and other unforeseen Herms etc. L/S

TOTAL

(C/O To Abstract of Cost for Subwork No.1)

300-0000 260000.007 10,00,00

-202000.00 5

500000.00-340000.00 3002 1000000.00 2000000-00 7.50

1.50 369900:00

400000.00

200000.00 200 000 1.00

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2.50 00.00000 30000 400000.00

\$000000.00

7100000.00 ans. 8250 .5 0 GGC,

Sub-Work No. 1 Sub Head No. 03

Rising Nain from HUDA

Providing, laying, jointing and testing pipe lines including Cost of excavation etc. complete in all respects - 100 mm dia. Cit pipe 150m @ Rs.com 100m - P. M. 2. Providing and fixing sluice valve including cost of surface box and mesonery chamber etc. complete in all respects. - 100 mm i/d 2 No. @ Rs. 6308 - (2000) -

Providing and fuding indicating plates for sluice valve and air Valvas - 2 No. (2 Rs. 1990), pach
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Provide and round on the plate
 Prove by two in the plate

H. Making Water Supply Connection with HUDA Moster line

7. Provision for cutting of roads and making good to its original Conditions.

TOTAL

(C/C) To Abstract of Cost for Subwork No.1)

Amount in Rs.
0.24 200000-
20000.00
600000.00
4465000.00-

3.84 Las

Sub Work No. 1 Sub-Head No. 04

Distribution System (Docestic + Flushing)

Amount in Rs.

666900 - 403300 6841800 - 179000

-97500-90-16475

13950 13950 - 13950 - 12950 -

-96060-00 46,0-9/

270155.00

100000-16020/-0.04

6,62,000/-

7.38 las

6.26

0.48 Les

1. Providing, Laying, jointing and tasting Set pipe ine including Fillings, cost of excervation etc. complete in all negations (10) Pipe 100 mm, 88 M @ Ra 2000 per mater 12.54 - ELEApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -GLPApe 60 mm, 200 M @ Ra 2000 per meter 75.91 -200 C = 200 C = 200 Per 200

(C/O To Abstract of Cost for Subwork No. 1)

WATER SUPPLY EXTERNAL - (MATERIAL STATEMENT)

s. No.	Line References	Size of the Pipe Recommend (M)	Longsh (M)
1	PLANT BOOM (I) TO NODE:2	190	88
2	NODER - OHT-BAR B	-#-1uo	30
ą.	NODE-2 - Note-3	-80- 10-5	148-7
8	NODE-3 - OHT-Back C	-0- 0-	30 -

Flathing

5. No.	Line Referances	Size of the Pipe Recommend (90)	Leigth (N)	1
1.	STP TO NODE-A	100.	53	1
2	NODE-A - BLOCK B- OHT	80-100	25	- h
3	NODE-A- NCCE B	-46- 0**	159	-189 MT
å	NODE-B-BLOCKC-OHT	-10-10-	»J	

100 movied	Docmethic 33	Flunhing	total. 86 mitr.
180 00 ild	149+310= 179	-	179 Mtr.
100 6500 ild	30	159+30=189 =	219 mtr.
In som ild		25 milt :	25 milr.
	242m	267	20 g

Sub Work No. 1 **Fire Fighting** Fire Rising Male Sub-Head No. 05 Amount in Rs. Providing , Laying , joining and testing M.S. pipes lines for fire rising main including cost of fittings, valves, 80 mm M S pipe line 225 m @ Rs 489 per Mr 150 mm M S pipe line 385m @ Rt. 1400 per Mr connection etc. complete in all respect . 168759 101 136000 00 (1) 623006.00-Las 6 1575 2 Providing & fixing skulce valve 80 mm da
12 Nos. @ Rs. 50000 - 3 Providing and fixing five Hydrant
12 Nos. @ Rs. 100002-90.000 0000000 1.20 120000.00 4. Providing for carriage of material (L.S.) 50000.00 5. Providing for indication Plates 12 Nos. @ Fe 1000-C. Post for Cathing Total 12000.00 n and t 300000 34 65 1433750 (C/O To Abstract of Cost for Subwork No.1)

FIRE PIGHTING EXTERNAL - MATERIAL STATEMENT

MATERIAL STATEMENT FOR FIRE RING MAIN PIPE

Fire Hydran (No.)	180 MW (M)	00 mm (H)	Line Rofasences	Sector	8. No.
100		6.65	¥8.		ĩ
	10.00	100 100	8-5"	1 0	
	1.	#10	8.8.	1 0	12
	16.65		B.C	1 [2
-	56.00	79.00	60	1 [3
	21.00		60	1	4
	48,00	43.00	0E		6
		3.50	EC.	1	6
12	62.00		EF	Site	7
		19.00	F.P.	1	8
	49.59		FG	1 0	
	24.00	45.00	66	1	9
	42.08		G-H		
		200	HH7		
	53.58		н	1	
-		909	н		
	3.50		10		10
12.0	304.0	224.5		TOTAL	100

607 14

Sub-work No. I Sub-Head No. 66			Irrigation	
				Amount in Rs.
Continuing to 15 496 etc. complete in all r c) 20 mm so 60 mm	g, Laying, Jointing an 35 (JPVC) including o respect. 9107 etro (<u>B. Ru. 0607-M</u> netro (<u>B. Ru. 0607-M</u>			-36000:00 J- 0/4
Valve complete in al 18 Nos. @Rs. 109		inigation hydraell		sensoron -56 las
3. Provision 1 Herrs: fr w TOTAL		d and other as foreseen Cathon its origin Ca	melita. C	10000000
MATERIAL STATEM	ENT FOR GARDEN H	PORANT (IRRIGATION) RING MAIN PER	05 mm	Garden Herdminte (Ho.)
- 100	34.	External Condex Instant day	00	10

452.0

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TOTAL

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SEWERAGE SCHEME

-39

Sub-Work No. II Amount in Rs. S.w. 1. Providing , jointing , outling and testing HHHC pipe 1-69 ARP and pwering into trenches including cost of Excevation, bed concrete, cost of manholes etc. complete 168-150 S. 2) a) See 200 mm Willing dapth 0.1.5 M 135 and Q Rs selecting 259- P. MTr. A f. S. T. P. HODA for a 125 miler. Q 1500 P. Mtr. A f. S. Provision for cartage of material to o Smer Cartyfor See 07602000 187500 97 as other underseen idens 180000.00 3. Provision for lighting and watching as fimberly tempor 2004 etc. 200000.00 Sauce 48-18 4. Provision for making HUDA Connection with Minter And 5. Sewage Trestment Plant of 240 KLD (Terting Treatment) C. Brow. A cutting of read willy it original and. Over Plans Line formated to contingencies & PH charges STP to main Line Add 48% Departmental charges (1) 149246403-000 10 1881 66.16 17770000 0102703.00 2000347.00 51,56,438 D Par for vent fite at suball 0003007.55 25,26,654/ 64.02 TOTAL BLACES as per Py repuisement (L-1) say in lace 1682 091 41.76.85 bes. (Cost to Final abstract of cost)

EXTERNAL SEWERAGE - MATERIAL STATEMENT

	NODE REFERE	NCK	LENGTH	Diamate
A	-	B	33	200
8		¢	33	200
C		D	15	200
E		E.	33	204
F		D	6	du
			5 34	MILL.
			6	200
D		\$TP	5	200
STP		Muncipal Line	125	300

STORM WATER SCHEME Sub-Work No. III Amount in Rs. Providing and laying R.C.C. pipe drain class NP-3 With semant joint, manholes excervation all complete in all respect. 225030.00 -300 mm dia 150 m @ Rs. 1500/m / а. 4367000-00 13 OD 0000/ b. 400 mm dia 610 m @ Rs. 2500/m 500 2. Provision for Road guilles LS WID 300 mm do joi 1 Connection 1000002.00 1.52 3. Providing Rain Hervesting/pit errangements with disilling chamber and oil and grease chamber 1000305.00 4 noe @ Rs.250,000 /Acre Prevision for outmorsible pumps in SM/H pit 400003-00** 4 Provision for Shoring & Timbering (L.S.) 100000.00 Provision for Lighting, Walching & Temp. Drain Anangements (L.S) 500000.00 6.00 Provision for Carriage of Material (L.S) 85000E00 a Provision for Naking Connection to HUDA Line (L.S) on market Kacul annabas Berera 1. 100 Provision for auting of roads for they it on on the andition. 6000008 3000000 Total -34.75 5475000 Add 3% fer contingencies and PH charges 5082500.00 10/8/208 Total. 164250 Add 40% Departmental charges , brits .04 642/1975.00 5639250 3656083 75 shim, ungersen, Adum Escal TOTAL 907535F.76 79 2763233 (Cost to Final abstract of cost) Say in lacs -80.78 -483 EXTERNAL STORM - MATERIAL STATEMENT STORM LINE Site of Pipe 430 Length of Line S.No. 84.03 hes. 1 450 1C -2103 3 3104 490 126 5 lot 400 22 7 6107 400 7 91 n 7 To 8 400 291 a Ter 9 400 80 7 400 20 15 S To 10 n 13 To 11 400 18

Mtr. & scontr.

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Road Work Sub-Work No. IV ROAD AREA As Pre **Drawing Attached** ROAD NO. AREA 1149.29 240.00 134.64 90.00 4 121.69 47 32 300.00 1 47.37 655.34 47.37 107.07 11 12 366 59 13 133.07 1312.50 Aves for Surface particity Add 10% for annes & Just 3442.00 -1500-50- 3102-83 TOTAL AREA (SQIII) SAY 6544-83 114.48 Amount in Rs. 3142+1312.50 +140.69 = 4895.19 55m 2489.31000. NOTE: Rates as par HUDA norms Provision for leveling & earth Wing as per site conditions. 40000000 A acces 7202 Sacm. As per out & fill plan@Rs. 100,000/-per Anre-1.20 1.80 4900 2 Stating east 200 mm thick (all-40) mm gauge compacted 49.00 4900 in Wanny and HTap cash allowing these as on ייניסן כיני, גר 7210 0der. gauge compoints (Table 400.6, Grading 1/0.3) Spor B.M. & soil Sed by office 4460001-00 3580 SQ. M. typ-A -P.A. BRADDEPRIMA GIONS 41700 36 lac 3. Provision for kerbs & channels of CC - 16-662 FM Pra COV-per RM -RG4-RM 993000.00 11112:5 96 4. Provision for maiding approach and pavement to building (L.S.) 100000000 5. Provision for parking avangement Tata Sfic Lisha Conford 503000-00 - Lump sum 2.10 6. Provision for carriage of material (LS) 10000000 50,000 -Provision for Guide Maps 25000:00-J. Drovision for Un foregaan -06060-06-50,000/-505600.00 8917000 TOTAL 68.56 Add 3% confirgency & P.E. charges +77004-00 267510 WICOT. 6104600.00 2.06 195 dept Churges & Price escalation, unforzan, Adum Cherrys ------ 9184510 9095859.96 4500 410 70.62 -00.00 Say in lacs Sey (Rs. in Locs) 10.05* 13684 920 24.60 (Cost to Final abstract of cost) Sun la. 136-85 laws 105.22

> Los on surface perking = 105000 103×200×5.0 = 1312.5 5mm

Read area 3442-0-59m

Add 12 m mal

140-69 58m - 3582-69 + 1312.50 4 9895-19 55m 599 4940 55m Sub Work Ne. V

Sheet Lighting

on met

1) Providing lighting rat surrounding Area up per standard specifications. HV 901 Total light poles (2Rs s26000) per acre for 4-237Acce

Amount in Ry. 10:59 Las

ADE AN CONTINGENCIES (WILDIN OFC) HOAD TOTAL Say (Rs. in Lacs) Changes (WILDIN OFC) HOAD OFC) H S. P. Sole 16.24 les

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2.00 Aures arganized Green area@F3.76,696,per acre 05-1

20 09/310021 Add 3% contingencies & P.E. therges 002000 asol 000055550000 TV1OL ISA HI D SHOUL HE 00.00/401 ISB - 100058-7 SL:0 all soon TOTAL Thee Guard 00 Tree Flain 09 Manua 30 No develoci Cost Datave: 001 400-Total No. of Trees NO TO SHALL STORE TO MAR DIN ·~~ 21/255 - 21/255 recei lead lead

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(soe'l ur race) (1132 what a series is the bay

(Cost to Final abeliast of cost)

SERVICES & RESURFACING OF ROADS

TOTAL

SUB WORK - VII

Amount in Rs.

1. Provision of MTC charges for Ws, SWD, Sewarage, Roads, Street Lighting, Horticulture etc.

(a) Complete in all aspect, including operational and establishment charges as per HUDA norms for 10 years completion 4.237 acres (@ Rs. 8-76 lacs per acre S - um

2. Provision for resurfacing of road after 1st 5 year of M.T.C. Le. 100 mm thick BUSG compected to 75 mm thick with 25 mm thick premix carrier with seal cost with mechanical private control of the seal cost of

TOTAL NGLO

Add 3% contingencies & P.E. charges

Ackt 48% Departmental charges & Escalation charges

Adum charges TOTAL Say (Rs. in Lacs) (Cost to Final ababiact of cost)

21-194 1080075-00 4320,000 - 29.40 +4230000.00 2160 000 3605 642750.0 7-390- 8068875 8 102728-75 2420 661 2.62 2551351.35 -8310941/ 1745068-04 8305447-09 4072361 89.96 -63.09---44.08 12383302 123.85 lacs. 24 · 0

C.E. No. Dated (

Annexure-A

Approval of Service plan estimate for Commercial Colony for an area SUB:measuring 4.237 acres (license No. 291 of 2007 dated 31.12.2007) at Village Badshahpur, Sector-67, Gurgaon being developed by M/S. Ansal API, C/o JMD Ltd.

Technical note and comments:-

- All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
- 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 HUDA and further shall also confirm to such directions, as issued by Chief Engineer, HUDA from time to time.
- 4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HUDA. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HUDA from time to time.

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/ HUDA. All link connections with the State Government/ HUDA 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.

- Structural design & drawings of all the structures, such as pump chamber, boosting 6. 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.
- Potability of water will be checked and confirmed and the tube-wells will be put into 7. operation after getting chemical analysis of water tested.

1.

10 JULIS 5.

C.E. No. Dated:-

Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.

A minimum 100 i/d C.I/D.I, 200mm i/d SW and 400mm id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.

10.

11.

13.

14.

8.

9.

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 HUDA.

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.

 The specifications for various roads will be followed as per IRC/MORTH specifications.

> The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.

This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

For

Executive Engineer (W), Chief Administrator, HUDA, Panchkula

Node References		ie.	Length	_			Woter Consumption	Average	Peak	Size of	Gradient	Velocity	Carrying		OED LEVEL		Dapth		
		(M)	Self	Branch	Total	@ 172.5 LPD for Apartment and 45 LPD for Office/Retail	Discharge in Gusec & 90% of Deily Demand	Discharge @ 3DWF in oused	in (mm)		(M/Sec)	Capacity (Cusec)	Ground Level	Invert Level (for starting Manhole)	invert Level (for next Marshole)	Starting (Depth) manbole	Last (Depth) menhole	Fall in Lins (MM)	
All Towers						1			0.016		Page 1								
A	-	В	33	3270	0	3270	147150.0	0.0015	0.0045	200	150	0.75	0.012	900.00	(900)	(1,120)	1,800	2,020	220
в	-	C	33	3270	0	3270	147150.0	0.0015	0.0046	200	150	0.75	0.012	600,00	(1,120)	(1,340)	1,720	1,840	220
C	-	D	15	3270	C	3270	147150.0	0.0015	0.0048	200	150	0.75	0.012	600.00	(1,340)	(1,440)	1,940	2,040	100
E	-	F	33	185	C	185	8775.0	0.0001	0.0003	200	150	0.75	0.012	600.00	(650)	(870)	1,250	1,470	220
F	-	D	5	535	C	535	E2287.5		-				0						
			5	535	195	730	32850.0												
	Π	- 2	5			1265	125137.5	0.0013	0.0039	200	150	0.75	0.012	600.00	(873)	(903)	1,470	1,503	33
D	-	STP	5	4535	0	4535	272287.5	0.0028	0.0085	200	150	0.75	0.012	600,00	(1,440)	(1,473)	2.040	2,073	33

STP - nal 125

