

HARYANA SHAHARI VIKAS PRADHIKARAN
OFFICE OF THE SUPERINTENDING ENGINEER, HSVP, CIRCLE - I,
HSVP COMPLEX, SECTOR-14, GURUGRAM.

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To

The Chief Engineer-I,
HSVP, Panchkula.

Memo No. 50989

Dated: 31/03/2022

Sub.: - Approval of service plan estimate for Affordable Plotted Colony under DDJAY project, area measuring 6.30 acres (License No. 18 of 2022 dated 11.03.2022) in the revenue estate of village Sikhopur and Naurangpur in Sec-78 Gurugram being developed by Conmin Infra Developers LLP.

The Executive Engineer, HSVP, Division No. V, Gurugram has submitted that the firm Conmin Infra Developers LLP. vide letter dated 24.03.2022 submitted the Service plan estimate for Affordable plotted Colony area 6.30 acres (License No. 18 of 2022 dated 11.03.2022) in Sector-78, Gurugram. The service estimate as received vide letter under reference has been checked and corrected wherever necessary and submitted for execution and 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 of the external development charges for affordable plotted colony for the service 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 HSVP. These charges will be modifiable as and when approved by the Authority/ State Govt. and will be binding upon the colonizer.
2. **DENSITY AREA POPULATION:-**
The scheme has designed considering 18 persons per each for main plots. The total population of the residential plotted colony works out to 2124 persons and the water demand is considering @172.50 LPCD. This may be checked and confirmed by this office that overall density as taken is corrected and overall density of sector should be maintained according to the Final Development Plan of Gurugram Town. The category wise area as shown on the plans and proposed density of population thereof has been treated to be correct for estimation/ services.
3. All technical notes and comments incorporated in this estimate in two sheets will also apply. A copy of these are also appended as Annexure-A.
4. The title and name of the license may be examined by this office.
5. **STREET LIGHTING:-**
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, CFL lamps shall be provided to meet with the requirement of HVPNL and as well Environment.
6. The layout plan for setting up of affordable plotted colony in an area of 6.30 acres supplied by DTCP, HR., Chandigarh have been considered to be correct for the purpose of estimation/ services only.
7. The External Master services for the new area is being planned and yet to be provided, however, the internal services of the affordable plotted colony is proposed to be connected with the master services yet to be planned/ laid by

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HSVP sector dividing road Gurugram. The detail of services proposed to be connected are as under:-

- i) **Water Supply:-** The source of water supply in this area is through HSVP water supply mains. 100mm dia water supply line has been taken in already above said approved estimate which to be connected with the proposed water supply line of HSVP laid/ to be laid on master road between Sector-78/80, Gurugram.
 - ii) **Sewerage:-** For disposal of sewage firm has proposed sewage treatment plant of 350KLD in their premises. Treated water has been proposed to be utilize to irrigation the landscape area by recycling. Overflow from the STP shall be disposed off into proposed master sewer line laid/to be laid on master road between sector-78/80, Gurugram.
 - iii) **SWD:-** For disposal of storm water firm has proposed 400mm I/d RCC pipe for Internal storm water drainage scheme and also made provision of Rain Water Harvesting pits as per requirement in their premises and 400mm I/d RCC pipe line for overflow has been proposed which is to be connected with HSVP master storm water drain line laid/to be laid on master road between Sector-78/80, Gurugram.
8. It may kindly be clarified to the colonizer that recycled water is proposed to be utilize for irrigation purpose only. No tap or out let of any kind will be provided for irrigation line except in the lawn/ park with suitable arrangement so as to prevent the public to use the recycled water. Caution board shall be installed by providing warning sign/ recycled water not fit for drinking/ human consumption. No cross connection between recycled water system and potable water system shall be made.
 9. It may be made clear to the colonizer that he will be fully responsible to make the arrangement of disposal of sewerage and storm water drainage till such time these are made available by HSVP & all link connected with the external system will be done by the colonizer/ firm at his own cost. The colonizer will have to ensure that the sewer and storm water drainage to be laid by them will be connected by gravity with the master services laid/ to be laid by HSVP/ State Govt. in this area as per their scheme.
 10. 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.
 11. It may be made clear to the colonizer that roof top rain harvesting system shall be provided by them as per Central Ground Water Authority norms/ Haryana Govt. Notification and the same will be kept operational/ maintained all the time. Arrangement for segregation of first rain not to be enter into the system shall also be made by the firm/ colonizer.
 12. The service estimate 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 do not includes the provision of electrification of the colony. However, it may be clear to colonizer that the supervision charges and O&M charges shall be paid by them directly to the HVPNL.
 14. The colonizer will be sole 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 the colonizer.
 15. In case some additional structures are required to be constructed and decided by HSVP at a later stage, the same will be binding upon the colonizer.

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16. It may be made clear to the colonizer that he will not make the connection with the master services i.e. water supply, sewerage, storm water drainage, without prior approval of the competent authority.
17. The estimate doesn't includes the services to be provided by the firm in the Group Housing Area.
18. Colonizer will have to obtain the permission for crossing the services in Revenue rasta from concerned department at his own level.
19. It may also be made clear to the colonizer that he shall also comply with the orders passed by National Green Tribunal: -
 - i. The direction given 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 Others shall be implemented by colonizer.
 - ii. Implementation of instruction issued by Hon'ble NGT during hearing held on OA No. 21 of 2014 and OA No. 95 of 2014 in the matter of Vardhman Kaushik V/s Union of India and Others shall be complied with by colonizer.
 - iii. NGT orders in Application No. 45 of 2015 & M.A No. 126 of 15 titled as Haryana Welfare Association V/s State of Haryana Gurgaon.
20. The estimated cost of various services to be provided by the colonizer for the development of internal services has been checked and corrected for purpose of Bank Guarantee and works out as under:-

Sr. No.	Description	Total Cost (Rs. in Lakh)
1.	Water supply	103.30
2.	Sewerage	84.84
3.	Storm Water Drainage	44.30
4.	Roads and Footpath	71.64
5.	Street lighting	14.51
6.	Horticulture	7.07
7.	Mtc. Charges & resurfacing of roads	104.98
	Total	430.64

Dev. Cost per acre $\frac{430.64}{6.30} = \text{Rs.}68.35\text{Lakh}$ per gross acre

Say Rs.68.35Lakh per acre

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

DA/- Estimate in Triplicate
alongwith Technical Note


Superintending Engineer,
HSVP, Circle-I, Gurugram.

Endst. No.

Dated:

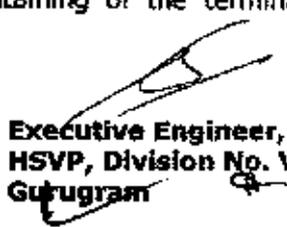
A copy of the above is forwarded to the Executive Engineer, HSVP, Division No. V, Gurugram w.r.t. his office memo No. 50038 dated 30.03.2022 for information.


Superintending Engineer,
HSVP, Circle-I, Gurugram.

Approval of service plan estimate for Affordable Plotted Colony under DDJAY project, area measuring 6.3012 acres (License No. 18 of 2022 dated 11.03.2022) in the revenue estate of village Sikhopur and Naurangpur in Sec-78 Gurugram being developed by Conmin Infra Developers LLP.

TECHNICAL NOTE AND COMMENTS

1. All detailed working drawings would have to be prepared by the colonizer and got approved from Chief Engineer, HSVP Panchkula being developed by Conmin Infra Developers LLP.
2. The correctness of the levels will be the sole responsibility of the colonizer for the integrating the internal proposals with the master proposals of Town will be got confirmed before execution.
3. The material to be used shall be same specification as are being adopted by HSVP further shall also confirm to such directions, as issued by the Chief Engineer, HSVP from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specification as are being followed by HSVP, further it shall also confirm to such other directions as are issued by the 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 these are made available by State Govt./HSVP. All link connection with the state Govt./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 made in the estimate
6. Working drawings of all the structures, such as pump chamber boosting chamber, RCC OHSR underground tanks quarters, manholes, ventilating shafts for sewerage and masonry ventilating chamber for storm water drainage, temporary disposal/arrangement etc. will be got approved from Chief Engineer, HSVP before execution.
7. Portability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested and approved from Chief Engineer, HSVP.
8. Only CI/DI pipes will used in water supply system.
9. A minimum 100mm i/d, 200mm i/d & 400mm i/d pipes will be used for water supply, sewerage and storm water drainage respectively.
10. Standards X-sections for SW pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health 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 specification.
12. The specification for various roads will be followed as per IRC/MOT specification.
13. The wiring system of street lighting and specification of street lighting fixtures will be as per relevant standards and those fixed by HSVP.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and letter of approval.
15. The colonizer will be fully responsible for maintaining of the terminal head required.


**Executive Engineer,
HSVP, Division No. V
Gurugram**

**SERVICE ESTIMATE, DESIGN REPORT AND
CALCULATION OF
INTERNAL DEVELOPMENT WORKS**

FOR

**PROPOSED “AFFORDABLE RESIDENTIAL PLOTTED COLONY”
(UNDER DEEN DAYAL JAN AWAS YOJNA) AREA MEASURING
6.3012 ACRES (LICENSE NO. 18 OF 2022 DATED 11.03.2022) IN
THE REVENUE ESTATE OF VILLAGE – SIKHOPUR AND
NAURANGPUR IN SECTOR – 78, GURUGRAM BEING DEVELOPED
BY M/S CONMIN INFRA DEVELOPERS LLP**

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATIONS OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED "AFFORDABLE RESIDENTIAL PLOTTED COLONY" (UNDER DEEN DAYAL JAN AWAS YOJNA) AREA MEASURING 6.3012 ACRES (LICENSE No. 18 of 2022 Dated 11.03.2022) IN THE REVENUE ESTATE OF VILLAGE – SIKHOPUR AND NAURANGPUR IN SECTOR – 78, GURUGRAM BEING DEVELOPED BY M/S CONMIN INFRA DEVELOPERS LLP.

Gurugram town of Haryana State situated on N.H. -248 road at a distance of 35 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 residential, commercial and Industrial load of Delhi. In order to review the growing pressure of population in National Capital of Delhi, It has been decided by the Haryana Government to develop various infrastructure facilities in Gurugram Urban Complex. This report is for a part of service estimate for proposed "Affordable Residential Plotted Colony" (Under Deen Dayal Jan Awas Yojna) measuring 6.3012 acres (License No. 18 of 2022 dated 11.03.2022) In the Revenue Estate of Village Sikhpur and Naurangpur in Sector –78, Gurugram being developed by M/s Conmin Infra Developers LLP has been prepared with the following provisions which are as under :-

I. WATER SUPPLY

The source of water supply in this area is by HSVP Mains. It has been proposed to construct underground tanks of capacity as per attached details and to location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP based supply, which will feed O.H. tanks on the roof of the Building and has been designed as per the Hazen Williams formula. Presently there is proposed / under execution HSVP W/S in this area. However the provision of tube wells has been taken due to non availability of water but after getting the approval from the competent authority through tube wells / tankers / any other approved source till HSVP W/S will be made available. The proposed tube well shall be 510mm bore drilled with reverse rotary rig and installed with 80mm i/d housing pipe and 50mm i/d slotted tube as strainer, hence the provision of 1 Nos. Tube Wells has been taken in this estimate.

DESIGN

The scheme has been designed for population of 2124 persons and considering @ 18.00 persons / units for Affordable Residential Plotted Colony and other provision etc. The combined quantum of water supply (domestic + flushing) per head / day has been taken as 172.50 Liters per head per day as per design calculation.

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

2. SEWERAGE

The scheme is designed for sewer connecting to the STP and bypass connection to HSVP 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 80% of the domestic and flushing water supply shall find its way into the proposed sewer. Sewer lines shall be running by gravity and discharge to STP proposed. Treated water will be used for Irrigation & Flushing purpose (through recycling) under the pipe line system.

3. STORM WATER DRAINAGE

It has been proposed to lay R.C.C pipes with required number of manholes for disposal of storm water, which will be connected to the HSVP drain. The intensity of rain fall has been taken as 6.00mm per hour. A minimum size of 400mm i/d R.C.C pipe for storm water drain will be provided and designed as per manning's formula. Necessary provision of rainwater harvesting arrangement has also been taken in this estimate.

4. ROADS

Road, Parking and Pavement have been provided to above areas and estimate is prepared as revised specifications adopted by HSVP.

5. STREET LIGHTING AND ELECTRIFICATION :-

Provision for external lighting, electrification and ESS of proposed area has been made.

6. HORTICULTURE :-

Estimate and details of plantation, landscaping, signage etc. have been included.

7. FIRE FIGHTING :-

Provision of Fire Fighting system has been made.

8. SPECIFICATIONS

The work will be carried out in accordance with the standard specifications of PH as laid down by the Haryana Government / HSVP.

9. RATES

The estimate has been based on the present market rates.

10. COST

The total cost of the scheme including cost of all services works out to Rs. 430.64 Lacs (Rupees Four Crores Thirty Lacs Sixty Four Thousand only) including 3% contingencies and 49% departmental charges + Price escalation and cost per acre comes out to Rs. 68.34 Lacs.

(Authorized Signatory)

1. DESIGN CALCULATION :-

Total Area of plot	= 6.3012 Acres
Permissible Area Under Plots	= 3.84378 Acres
Proposed Area Under Plots	= 3.36615 Acres
Permissible Commercial Area @ 4%	= 0.25205 Acres OR (1020.00 Sqm.)
Proposed Commercial Area	= 0.22411 Acres OR (906.94 Sqm.)
Proposed Community	= 0.6491 Acres
Area Of Milk and Vegetable booth	= 27.50 Sqm
Proposed Plots	= 118 Plots

I) Water Requirement :-

• Total Plots	= 118 Plots
• Total Population @ 18.00 Persons/Plot @ 172.50 LPCD	= 2124 Persons = 366390.00 LPD
• Commercial area @ 3 Sqm / person = 303 Persons @ 45 LPCD	= 906.945 Sqm = 13635.00 LPD
• Community Center (Area 0.6491 Acre)	= 14228.00 LPD
• Milk and Vegetable booth	= 4000.00 LPD
• ESS and other unforeseen provision	= 5000.00 LPD
Total	= 4,03,253.00 LPD Or 404 KLD Say 410 KLD

II. FIRE DEMAND

(i) Population	= 2124 Persons
(p) $\frac{1}{2} \times 100/1000 = (2.124) \frac{1}{2} \times 100$ (Considering 1/3 of total population) Add. @ 15 % Extra for margin factor	= 145.73/3 = 48.57 KLD = 7.28 KLD
Total	= 55.85 KLD Say = 60 KLD

III. Garden Irrigation Requirement (For Total Area) = 20.00 KLD**IV. Total Water Requirement for UGT**

(Excluding Fire Demand)	
Hence Domestic Water Requirement (67%)	= 410 x 67% = 275.00 KLD
Hence Flushing Water Requirement (33%)	= 410 x 33% = 135.00 KLD
Day Requirement considering @ 60%	= 170 K.L. for Domestic = 90 K.L. for Flushing

But it is proposed to construct an UGT i.e. 170 K.L. in two compartment for domestic use and 90 K.L. for non potable water in two compartment (at STP) and 60 K.L. for fire fighting purposes for UGT in two compartment as shown location in the plan.

Total Capacity of UGT = 170 + 60	= 230.00 KLD
Total Requirement for Flushing and irrigation at STP (90+20)	= 110.00 KLD

V. Tube Well	For UGT
a) Yield	= 15 K.L. / Hr.
b) Working Hour per day	= 16 Hr. / Per Day
c) Total water demand	= 275 M3/Day
d) Number of tube well required (Water Demand / Discharge / Hr. working Per day)	= 1.15 Nos
e) Add 5% extra	= 0.11
Total	= 1.26 Nos
Say	= 1 Nos

Water to the proposed development is to be supplied by HSVP. However consider 1 Nos. T.W. to install for proposed requirement of water for augmentation / standby purposes and provision has also been taken in the estimates due to non availability of water but after getting the approval from the competent authority.

VI) Pumping Machinery for Tube wells	
a) Gross Working Head	= 80 Mtr
b) Average fall in S.L	= 2 Mtr
c) Depression Head	= 6 Mtr
d) Friction loss in main	= 10 Mtr
Total	= 98 Mtr
e) Discharge	= 15000 LPH (Or 4.17 LPS Say 4.50 LPS)
f) Horse Power	= 9.80 H.P.
HP = $(4.50 \times 98) / (75 \times 0.60)$	
Say	= 10.00 H.P.

It is proposed to provide 1 No. pumping set of 4.50 LPS discharge at 98 Mtr head (1W)

VII) Boosting Machinery for domestic water For UGT	
Total Water Requirement	= 275.00 KLD
Pumping per hour @ 8 hr. pumping / day	= 275 / 8 KL / hr.
	= 34.375 KL / hr.
	= 572.91 lpm = 9.54 ips
	Say 2 No. 6.00 Ips each
Gross working head	For UGT
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 10.00 mts.
- Clear Head required	= 30.00 mts.
Total	= 45.00 mts.
Say	= 45.00 mts.
Pump HP	= $(6.00 \times 45) / (75 \times 0.60)$
	= 6.00 H.P.
Say	= 7.50 HP

It is proposed to provide 3 Nos. of pumping set of 6.00 lps discharge at 45mts Head each (2W + 1S) for UGT.

VIII) Boosting Machinery for flushing water at STP

Total Water Requirement	= 135 K.L.D
Pumping per hour @ 8 hr. pumping / day	= 135 /8 KL / hr. = 16.875 KL / hr. = 281.25 lpm = 4.69 lps, Say 2 No. 3.50 lps each
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 10.00 mts.
- Clear Head required	= 30.00 mts.
Total	= 45.00 mts.
Say	= 45.00 mts.
Pump HP	= $(3.50 \times 45) / (75 \times 0.60)$ = 3.50 HP Say = 5.00 HP

It is proposed to provide 3 Nos of pumping set of 3.50 lps discharge at 45 mts Head each (2W + 1S)

IX) Boosting Machinery for Irrigation water

Total Water Requirement	= 20 KLD
Pumping per hour @ 5 hr. pumping / day	= 20 /5 KL / hr. = 4.00 KL / hr. = 66.666 lpm = 1.1 lps Say = 2.00 LPS
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 25.00 mts.
Total	= 35.00 mts.
Say	= 35.00 mts.
Pump HP	= $(2.00 \times 35) / (75 \times 0.60)$ = 1.55 HP Say =2.00 HP

It is proposed to provide 2 No. of pumping set of 2.00 lps discharge at 35 mts Head each (1W + 1S)

X) DG Set for plumbing

DG Set Requirement

Submersible Pump (1 x 10)

Domestic Pump (2 x 7.50)

Flushing Pump at STP (2 x 5)

Street Light and other etc.

Total pump load

For UGT

= 10.00 HP

= 15.00 HP

= 10.00 HP

= 15.00 HP

= 50.00 HP

= 50.00 x 0.746 x 1.50

= 55.95 K.W

= 1 No. 63 KVA

Total DG capacity

Hence it is proposed to provide 1 No. D.G. Set of 63 KVA capacity.

FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = (275 for domestic & 135 KLD for flushing)

i) 80% of total Domestic Water Demand = 80% of 275 KLD = 220.00 KLD

ii) 80% of total Flushing Water Demand = 80% of 135 KLD = 108.00 KLD

Total = 328.00 KLD

Considering 5% marginal factor = 16.40 KLD

G. Total = 344.40 KLD

Say 350 KLD

Proposed STP Capacity = 350 KLD Or 0.35 MLD

(Authorized Signatory)

SUB WORK NO. I

WATER SUPPLY

Sub Head No. 01

Head Works

Sr. NO.	Description	Amount in Rs.
1	Construction of U.G. tanks and Fire Tank including pipes, valve & Specials. 230 KLD @ Rs. 3500/- per K.L.D	805000.00
2	Provision for construction of Boosting Station 1 Nos @ Rs. 250000/- each	250000.00
3	Boring and installing tube well reverse rotary rig complete with pipes and strainer to a depth of about 120 Mtr complete in all respect. 1 Nos @ Rs. 700000/- each	700000.00
4	Provision for construction of tube well chamber size 1.50m x 1.50m complete in all respect. 1 Nos @ Rs. 80000/- each	80000.00
5	Provision for carriage of material and unforeseen items L.S.	50000.00
6	Provision of specials for tube well & rising main to UGT L.S.	50000.00
	Total	1935000.00
	Say in Lacs	19.35

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 1**Sub Head No. 02****WATER SUPPLY
Pumping Machinery**

Sr. NO.	Description	Amount in Rs.
1	Providing and installing Hydro pneumatic pumping set of following capacities for domestic water Supply with specials 6.00 lps at 45 mts head - 3 No. (2W+1SB) - @ Rs. 1,00,000/- each Set (7.50HP)	300000.00
2	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply & irrigation etc.	
i	3.50 lps at 45 mts head - 3 No. (2W+1SB) @ Rs. 70,000/- 1 Set (5HP each)	210000.00
ii	2.00 lps at 35 mts head - 2 No. (1W+1SB) @ Rs. 30,000/- 1 Set (2HP each)	60000.00
3	Providing and installing Submersible pump for tube wells with specials 4.50 lps at 98 mts head - 1 Nos (1W) @ Rs. 1,20,000/- 1 Set (10HP each)	120000.00
4	Provision for ESS (Electric Panel Foundation) L.S.	50000.00
5	Provision for D.G. Set for stand by arrangement for all machinery = 1 No. 63 KVA @ Rs. 7,00,000/- each	700000.00
6	Provision for making foundations & erection of pumping machinery	50000.00
7	Provision for pipes, valve & specials inside boosting chamber	150000.00
8	Provision for electric services connection including electric fittings for boosting chambers and pump chamber etc.	150000.00
9	Provision for carriage of materials and other unforeseen items L.S.	50000.00
	Total	1840000.00
	Say in Lacs	18.40

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 1

WATER SUPPLY

Sub Head No. 03

Water Supply Distribution & Rising Main Pipe

Sr.	Description	Amount in Rs.
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects	
i)	100mm dia D.I. Pipe 1542 Mtr @ Rs. 1000/- Per Mtr	1542000.00
ii)	150mm i/d D.I. Pipes -212 Mtr @ Rs. 1200/- Per Mtr	254400.00
iii)	200mm i/d D.I. Pipes 30 Mtr @ Rs. 1500/- per mtr	45000.00
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect	
a)	100mm i/d 20 No. @ Rs. 7500/- each	150000.00
b)	150mm i/d 10 No. @ Rs. 10000/- each	100000.00
c)	200mm i/d 2 No. @ Rs. 15000/- each	30000.00
3	Providing and fixing indicating plates for sluice valve 32 No. @ Rs. 1000/-	32000.00
4	Provision for carriage of materials and other unforeseen items	50000.00
5	Provision for making connection with HUDA Pipe & T.W's etc.	100000.00
6	Provision for cutting the road and making good the same	50000.00
	Total	2353400.00
	Say In Lacs	23.54

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 04

EXTERNAL FIRE HYDRANTS

Sr.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing Heavy Class M.S. Pipes for fire rising main including cost of fittings, valves, connection etc. complete in all respect	
a)	100mm dia - 184 M @ Rs. 800/- Per Mtr	147200.00
2	Providing and fixing fire Hydrant with accessories 23 No. @ Rs. 7000/- each	161000.00
3	Providing and fixing indicating plate -23 No. @ Rs. 1000/- each	23000.00
4	Provision for carriage of material L.S.	25000.00
	Total	356200.00
	Say In Lacs	3.57

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 05

IRRIGATION

Sr. NO.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing UPVC pipe lines suitable for 6 kg pressure including cost of fittings, valves, connection etc. complete in all respect	
a)	25mm dia - 200 M @ Rs. 500/- Per Mtr	100000.00
2	Providing and fixing 25mm dia, Irrigation hydrant valve complete in all respect 25 Nos @ Rs. 3000/- each	75000.00
3	Provision for carriage of materials and other unforeseen items L.S.	20000.00
4	Provision for indicating plate with safety box etc. complet in all respect 25 Nos @ Rs. 1000/- each	25000.00
5	Provision for road cutting and making it condition as original L.S.	25000.00
	Total	245000.00
	Say in Lacs	2.45

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. II

SEWERAGE SCHEME

Sr.	Description	Amount in Rs.
1	Providing, jointing, cutting and testing stoneware pipe grade A and lowering into trenches including cost of excavation, bed concrete, cost of manholes etc. complete	
	a) SW Pipe 200mm i/d avg. depths 0 - 2.00M 557 M @ Rs. 1000/- per Mtr	557000.00
	b) SW Pipe 250mm i/d avg depth 2.00 M 45 M @ Rs. 1200/- per Mtr	54000.00
	c) SW Pipe 300mm i/d avg depth 2.75 M 75M @ Rs. 1400/- per Mtr	105000.00
	d) SW Pipe 400mm i/d avg depth 3.50 M 35M @ Rs. 1600/- per Mtr	56000.00
2	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respect - 150mm dia Heavy Class DI pipes (overflow for STP)	
	a) 150MM i/d D.I. Pipe - 210 M @ Rs. 1500/- Per Mtr	315000.00
3	Provision of lighting and watching etc.	50000.00
4	Provision for cartage of material	20000.00
5	Provision for making connection with HSVP	150000.00
6	Provision for construction of Sewerage Treatment Plant (STP) including the cost of tertiary treatment level with recycling storage tank and machinery with all arrangement etc. complete in all respect. 350 KLD or (0.35 MLD) Capacity L.S.	4221000.00
		5528000.00
	Add 3% contingency & P.H. Services	165840
	Total	5693840
	Add 49% Department charges + Price Escalation	2789982
	G. Total	8483822
	Say in Lacs	84.84

(C.O. to Final Abstract of Cost)

SUB WORK NO. III

STORM WATER DRAINAGE SCHEME

Sr.	Description	Amount in Rs.
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint,	
	a) RCC Np3 pipe 400mm i/d = 655 M @ Rs. 1200/- Per Mtr	786000.00
	b) RCC Np3 pipe 450mm i/d = 00 M @ Rs. 1400/- Per Mtr	0.00
2	Provision for Rain Water Harvesting arrangement including the cost of screening chamber and pit with all type of pipes and other material etc. complete in all respect as per standard drawing and bore upto requirement of site etc. 6 Nos RWH @ Rs.2,50,000/- each	1500000.00
3	Provision for road gulley & pipe with connection	350000.00
4	Provision for lighting and watching	50000.00
5	Provision for timbering and shoring	20000.00
6	Provision for cartage of material	30000.00
7	Provision for making connection with HSVP storm water drain	150000.00
	Total	2886000.00
	Add 3% contingency & P.H. Services	86580.00
	Total	2972580.00
	Add 49% Department charges + Price Escalation	1456564.20
	G. Total	4429144.20
	Say in Lacs	44.30

(C.O. to Final Abstract of Cost)

HYDRAULIC STATEMENT OF WATER SUPPLY (FLUSHING) RECYCLING OF TREATED SEWAGE WATER
 SUBHEAD : FLUSHING WATER SUPPLY SCHEME - DESIGN CALCULATION

S. No.	Line Reference	Type of Colony	Residential Plots							Population @ 18.00 Person per Plot	Water Requirement @ 172.50 LPCD	Other Water Requirement i.e. Commercial, Community Carbs / booth/other in LPD	Total Water Requirement in LPD	Water Requirement @ 33% of total water requirement	Peak Flow in LPH	Velocity (m/s)	Size of the pipe in (mm)	Total Friction Loss in M/M	Length in (M)	Loss of Head in Line (M)	Formation Level at Lower End	Available Head at Lower end (M)	Terminal Head (M)	Remarks
			5	6	7	8	9	10	11															
1	2	4							9		10	11	12	13	14	15	16	17	18	19	20	21	22	
1	STP	Plotted Reil.	0	138	118	2124	366390	366390	402253	402253	36683	402253	133072	49902	0.43	150	0.003	70	0.06	237.60	282.64		Formation Level at STP = 237.70 M Boasting Head = 45.00 M Flushing Hydraulic Head at STP = 282.70 M	
2	a	-6-	0	98	106	1908	329190	329190	27945	353358	24228	353358	116608	43728	0.38	150	0.002	75	0.15	237.70	282.49	40.79		
3	b	-6-	0	56	56	1008	173290	173290	18280	18280	10000	18280	60580	27755	0.39	100	0.003	45	0.14	237.80	282.35	40.55		
4	c	-6-	25	0	25	450	77625	77625	87625	87625	5000	87625	27266	10225	0.27	100	0.002	340	0.28	237.95	282.07	44.12		
5	a	-6-	9	0	9	162	27945	27945	27945	0	0	27945	9222	9458	0.16	100	0.001	50	0.05	237.40	282.59	45.19		
6	a	-6-	3	0	3	54	9315	9315	13315	0600	0600	13315	4394	1648	0.16	100	0.001	20	0.02	237.65	282.62	44.97		
7	a	-6-	0	0	0	0	0	0	8635	8635	8635	8635	2850	3089	0.16	100	0.001	55	0.06	237.50	282.58	45.08		
8	b	-6-	42	0	42	756	130410	130410	144538	144538	14228	144538	47734	17999	0.31	100	0.002	160	0.32	237.90	282.17	44.27		
9	c	-6-	31	0	31	558	96255	96255	101255	5000	5000	101255	33414	12590	0.27	100	0.002	310	0.22	237.90	282.13	44.23		

HYDRAULIC STATEMENT OF WATER SUPPLY (DOMESTIC)

SUBHEAD : DOMESTIC WATER SUPPLY SCHEME - DESIGN CALCULATION

S. No.	Line Reference	Type of Colony	Residential Plots							Population @ 18.00 Person per plot	Water Requirement @ 172.50 LPCD	Other Water Requirement i.e. Comm. / Connectivity building / Milk booth/ other services	Total Water Requirement in LPD	Water Requirement @ 6.7% of total water requirement	Peak Flow in LPH	Velocity (m/s)	Size of the pipe in (mm)	Total Friction Loss in M/M	Length in (M)	Loss of Head in Line (M)	Formation Level at Lower End	Available Head at Lower end (M)	Terminal Head (M)	Remarks
			From	To	Self	Branch	Total																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
1	UGT A	Plotted Resd.	0	118	118	2124	386390	3863	403253	270180	101317	0.40	200	0.002	30	0.06	237.60	282.64	45.04	Formation Level at Water Works i.e. UGT = 237.70 M Boosing Head = 45.00 M Hydraulic Head = 282.70 M				
2	A	-do-	8	98	106	1908	329130	2428	353258	236750	88779	0.82	150	0.005	72	0.36	237.70	282.28	44.58					
3	B	-do-	0	56	56	1008	173880	1000	183880	13200	46199	0.38	150	0.002	45	0.08	237.90	282.19	44.39					
4	C	-do-	25	0	25	450	77625	5000	82625	55259	20759	0.38	100	0.003	140	0.42	237.95	281.77	43.82					
5	A	-do-	9	0	9	162	27945	0	27945	18723	7021	0.16	100	0.001	50	0.06	237.40	282.59	45.19					
6	A	-do-	3	0	3	54	9315	4000	13315	8921	3345	0.16	100	0.001	20	0.02	237.65	282.62	44.97					
7	A	-do-	0	0	0	0	0	8635	8635	5785	2169	0.16	100	0.001	55	0.06	237.50	282.58	45.08					
8	B	-do-	42	0	42	756	130410	14228	144638	96907	36340	0.54	100	0.006	160	0.96	237.90	281.32	43.42					
9	C	-do-	31	0	31	558	96255	5000	101255	67941	25440	0.38	100	0.003	110	0.33	237.90	281.86	43.96					

SUBHEAD : IRRIGATION WATER SUPPLY SCHEME - DESIGN CALCULATION (HORTICULTURE)**HYDRAULIC STATEMENT OF IRRIGATION WATER SUPPLY**

S. No.	Line Reference	Population	Peak Flow in LPH	Velocity (m/s)	Size of the pipe required (In mm)	Size of the Pipe Recommend (mm)	Hydraulic Radius	Total Friction Loss in m/m	Length (M)	Loss of Head in Line (M)	Formation Level	Available head (M)
1	From Flushing Water Supply line	-	-	-	25.00	25	-	-	200	-	-	-

Note :- 25 Nos connections are to be done from flushing water supply line i.e. 25 Nos x 8 Mtr/each =200 Mtr for 25 mm i/d

TOTAL MATERIAL STATEMENT FOR WATER SUPPLY i.e. DOMESTIC, FLUSHING & RISING MAIN ETC.

S. No.	Description	Size of pipe upto valve in 80mm	Size of pipe upto valve in 100mm	Size of pipe upto valve in 150mm	Size of pipe upto valve in 200mm
1	Domestic	-	535 M	117 M	30 M
2	Flushing	-	580 M	95 M	-
3	Rising Main	-	430 M	-	-
	Total	-	1545 M	212 M	30 M

MATERIAL STATEMENT FOR SEWERAGE SCHEME

S. No.	Line No.		Length (In Mtr)	Pipe Dia	Av. Depth	Length in Mtr			
	From	To				200mm i/d 0 to 2.00 Mtr	250mm i/d 0 to 2.50 Mtr	300mm i/d 0 to 2.75 Mtr	400mm i/d 0 to 3.00 Mtr
1	A	B	142	200	1.74	142	-	-	-
2	B1	B	110	200	1.39	110	-	-	-
3	B	C	45	250	2.03	0	45	-	-
4	C1	C	155	200	1.35	155	-	-	-
5	C	D	75	300	2.13	0	-	75	-
6	D3	D	20	200	1.32	20	-	-	-
7	D2	D	50	200	1.41	50	-	-	-
8	D1	D	80	200	1.43	80	-	-	-
9	D	STP	35	400	2.30	0	-	-	35
10	STP - HUDA / Sewer By Pumping 150mm i/d D.I. Pipe = 210 Mtr						-	-	-
	Total		712			557	45	75	35

200mm i/d Pipe Length 557 Mtr
 250mm i/d Pipe Length 45 Mtr
 300mm i/d Pipe Length 75 Mtr
 400mm i/d Pipe Length 35 Mtr
 150mm i/d D.I. Pipe (By Pumping) = 210Mtr

FINAL ABSTRACT OF COST

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	SUB WORK NO. I	WATER SUPPLY SCHEME	103.30
2	SUB WORK NO. II	SEWERAGE SCHEME	84.84
3	SUB WORK NO. III	STORM WATER DRAINAGE	44.30
4	SUB WORK NO. IV	ROAD AND FOOTPATH	71.64
5	SUB WORK NO. V	STREET LIGHTING	14.51
6	SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	7.07
7	SUB WORK NO. VII	MTC. OF SERVICES & RESURFACING OF ROADS (After 1st 5 years of 1st Phase & Next 5 years in 2nd Phase)	104.98
		TOTAL	430.64
TOTAL : (Rupees Four Crore Thirty Lacs Sixty Four Thousand only)			

Cost Per Acre = Rs.430.64 Lacs / 6.3012 = 68.34 Lacs Per Acre

AUTHORISED SIGNATORY

SUB WORK NO. 1 (Abstract of cost)

WATER SUPPLY SCHEME

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	Sub Head No. 01	Head Works	19.35
2	Sub Head No. 02	Pumping Machinery	18.40
3	Sub Head No. 03	Water Supply Distribution & Rising main pipe	23.54
4	Sub Head No. 04	External Fire Hydrants	3.57
6	Sub Head No. 05	Irrigation	2.45
		TOTAL	67.31
		Add 3% contingency & P.H. Services	2.02
		Total	69.33
		Add 49% Department charges + Price Escalation	33.97
		G. Total	103.30
		Say in Lacs	103.30

(C.O. to Final Abstract Of Cost)

Sub Work No. IV

ROAD AND FOOTPATH

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for leveling & earth filling as per site conditions	Per Acre	6.3012	250000	1575300
2	i) Providing and laying 100mm thick PCC under pavement, cement concrete of specified grade 1:4:8 and 150mm thick RMC grade M-40 ii) Providing and laying Bituminous road (250mm GSB, 300mm WMM, 50mm DBM, 40mm BC).	Sqm	4050	450	1822500
3	Provision for kerbs & channels of C.C. 1.2:4	Metre	1460	500	730000
4	Provision for arrangement of guide map and indicating board etc.	LS			50000
5	Provision for footpath with 100mm thick PCC under pavement cement concrete of specified grade 1:4:8 and 150mm thick RMC Grade M-40 or Bituminous road with 250mm GSB, 300mm WMM, 50mm thick DBM & 40mm thick BC etc. as per requirement of site for surface car parking and approach to Tower / Block etc. complete in all respect	Sqm	880	500	440000
5	Provision for carriage of material	LS			50000
	Sub Total				4667800
	Add 3% contingencies & PH Services				140034
	Sub Total				4807834
	Add 49% Departmental Charges + Price Escalation				2355839
	Total				7163673
	Say Rs. In Lacs				71.64

(C.O. to Final Abstract of cost)

Sub Work No. V

STREET LIGHTING

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for Street Lighting at surrounding area as per standard specifications of HVPN etc. complete	Acre	6.3012	150000	945180
	Add 3% contingencies & PH Services				28355
	Total				973535
	Add 49% Departmental Charges + Price Escalation				477032
	Total				1450568
	Say Rs. In Lacs				14.51

(C.D. to Final Abstract of cost)

Sub Work No. VI

HORTICULTURE

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Development of Lawn Areas				
a.	Trenching of ordinary soil upto depth of 60 cm. i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure with all fitting and valve etc. complete				
b.	Rough dressing of turfed area				
c	Grassing with "Cynadon dactylon" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5 cm part in elghter direction				
d	organized green 1925.215 Sqm Or 0.48 Acres (As per detail given in green park area calculation)	Acre	0.48	250000	120000
2	Providing and planting trees along boundary @ 6 m interval (Length appx 1460M) = $1460/6 = 244$ Nos Say No. of trees = 250 Nos Cost details : Excavation = Rs. 73 Manure = Rs. 550 Tree Plant = Rs. 650 Total Rs. = Rs. 1350				0
		Each	252	1350	340200
	Total				460200
	Add 3% contingencies & PH Services				13806
	Total				474006
	Add 49% Departmental Charges + Price Escalation				232263
	Total				706269
	Say Rs. In Lacs				7.07

(C.O. to Final abstract of cost)

Sub Work No. VII

Mtc. Of services & Resurfacing of Road

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, hort. Etc. for period of 10 years including operation charges full establishment etc. complete in all respects 5.0255 acres @ Rs. 1.50 lacs per acre	Acre	6.3012	250000	1575300
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thick BM including leveling coarse and 25mm BC as per crust design whichever is safer	Sqm	4050	700	2835000
3	2nd phase after next five years of 1st phase (50mm DBM & 25mm BC or as per crust design whichever is safer	Sqm	4050	600	2430000
	Sub Total				6840300
	Add 3% contingencies & PH Services				205209
	Sub Total				7045509
	Add 49% Departmental Charges				3452299
	Total				10497808
	Say Rs. In Lacs				104.98

(C.O. to Final abstract of cost)

Material Statement of Road Works

Sr. No.	Road No.	Road Width	Length	Width	Area	
1	1	9.00	46.00	5.50	253.00	Sqm
2	2	9.00	82.00	5.50	451.00	Sqm
3	3	9.00	190.00	5.50	1045.00	Sqm
4	4	9.00	155.00	5.50	852.50	Sqm
5	5	9.00	110.00	5.50	605.00	
6	6	9.00	92.00	5.50	506.00	
7	7	24.00	20.00	7.00	140.00	
	G. Total				3852.50	Sqm
Add 5% extra for curves					192.63	Sqm
Total					4045.13	Sqm
				Say	4050	Sqm

i) Kerbs & Channels

i)	9.00 Mtr wide road (2 x 675)	1350 Mtr
ii)	24.00 Mtr wide Road (2 x 20) (PART)	40 Mtr
	Total	1390 Mtr
	Add 5% for curves	70 Mtr
	G. Total	1460 Mtr

ii) Footpath :-

(i)	9M wide road = 675 M x 1.20M	= 810.00 Sqm
(ii)	24.00 M wide road (Part) = 20M x 1 x 1.20M	= 24.00 Sqm
	Total	= 834.00 Sqm
	Add 5% for curves	= 41.70 Sqm
	Total	= 875.70 Sqm
	Say	880 Sqm

SUMMARY OF DESIGN REQUIREMENT

S. No.	Description	Qty	Unit
1	Total Population	2124	Persons
2	Total Water Requirement (Domestic)	275	KLD
3	Total Water Requirement (Flushing)	135	KLD
4	Total Water Requirement (Horticulture)	20	KLD
5	U. G Tank (Domestic - 170 KLD)	1	No.
6	U.G.T Fire Tank 60 KLD	1	No.
7	No. of Domestic WS pumps UGT	2+1	Set
8	No. of Flushing pumps	2+1	No.
9	No. of submersible pumps	1	No.
10	Generating sets (63 KVA)	1	63 KVA
11	STP (350 KLD)	1	No.

MATERIAL STATEMENT (FLUSHING WATER SUPPLY)

S. No.	Line Designation		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr	
	From	To			150MM	100MM
1	STP	a	150	20	20	
2	a	b	150	75	75	
3	b	c	100	45		45
4	c	d	100	140		140
5	a	a1	100	50		50
6	a	a2	100	20		20
7	a	a3	100	55		55
8	b	b1	100	160		160
9	c	c1	100	110		110
	Total			675	95	580

150mm I/d Pipe Length

95 Mtr

100mm i/d Pipe Length

580 Mtr

MATERIAL STATEMENT FOR BOREWELL RISING MAINS AND HUDA MAIN

S. No.	Name of Line		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr	
	From	To			100mm	150mm
1	T.W.	UGT	100	20	20	-
2	Govt. Line	UGT	100	210	210	0
	Total			230	230	0

MATERIAL STATEMENT (FIRE HYDRANT)

- i) Length of Water Supply (Domestic) = 682 Mtr
- ii) Length of 100mm i/d F.H. = 23 X 8 = 184 Mtr
- iii) Nos of F.H. = 23 Nos

Note : Fire Hydrant considering @ 30Mtr /each in Domestic Water Supply line
= $682 / 30 = 23$ Nos

DESIGN STATEMENT OF SEWERAGE SCHEME

SUBHEAD : SEWERAGE SCHEME - DESIGN CALCULATION

S. No.	Line Reference	Type of Colony	Rat/Rodent/ Pests	Population @ 18.00 person per plot	Water Requirement per lit @ 172.50 LPCD	Other Requirement (i.e. comm./ community building/ Milk Booth and other SPP/RBS)	Total water requirement LRD	Sew. Quantity after evaporation losses @ 20% (in LRD)	Sewerage Discharge Peak Flow (m ³ /sec)	Size of pipe in (mm)	Gradient in (m)	Velocity (m/Sec)	Carrying capacity of pipe (m ³ /sec)	Length in Meter	Fall in line due to slope (m)	Ground Level			Formation Level			Invert Level			Depth			
																Start	End	Start	End	Start	End	Start	End	Start		End	Average	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1	A	B	Plotted Res.	25	0	25	450	77625	5000	82625	66100	0.0022	200	225	0.76	0.012	142	0.63	237.70	237.65	237.85	237.80	236.45	235.82	235.79	1.50	1.98	1.74
2	BL	B		31	0	31	553	96255	5000	101255	81004	0.0028	200	225	0.76	0.012	110	0.48	237.70	237.65	237.90	237.80	236.70	236.22	1.20	1.59	1.39	
3	B	C		56	0	56	1008	173880	10000	183880	147104	0.0051	250	305	0.76	0.19	45	0.14	237.65	237.25	237.80	237.70	236.79	236.65	2.01	2.05	2.03	
4	CA	C		42	0	42	756	130410	14228	144638	115710	0.0040	200	225	0.76	0.012	155	0.68	237.65	237.25	237.80	237.70	236.70	236.02	1.20	1.68	1.44	
5	C	D		98	8	106	1908	329430	24228	353658	282686	0.0097	300	385	0.76	0.027	75	0.19	237.25	237.25	237.70	237.60	236.62	235.43	2.08	2.17	2.13	
6	D3	D		3	0	3	54	9315	4000	13315	10652	0.0003	200	225	0.76	0.012	30	0.08	237.40	237.25	237.65	237.60	236.45	236.37	1.20	1.73	1.22	
7	D2	D		9	0	9	162	27945	0	27945	22556	0.0007	200	225	0.76	0.012	50	0.22	237.10	237.25	237.40	237.60	236.20	235.98	1.20	1.62	1.41	
8	D1	D		0	0	0	0	0	8635	8635	6908	0.0002	200	225	0.76	0.012	80	0.35	237.20	237.25	237.50	237.60	236.30	236.05	1.20	1.85	1.53	
9	D	STP		118	0	118	2124	366990	36863	403853	322002	0.0112	400	570	0.76	0.049	35	0.86	237.25	237.60	237.60	237.70	235.38	235.32	2.22	2.38	2.30	
10	S.T.P	Sewer Line															210	0.50	237.60	236.40	237.70	237.00	235.20	234.70	1.50	2.30	2.40	

150 mm I/D D.I. Pipe (By pumping from STP I)

ROADS

LC-4507

To be read with Licence No. 18 of 2022 dated 11/03/2022

That this Layout plan for an area measuring 6.30 acres (Drawing no. DTCP-075 dated 14.09.21) comprised of licence which is issued in respect of Affordable Residential Plotted Colony (Under Deen Dayal Jan Awas Yojna) being developed by Conmin Infra Developers LLP in Sector-78, Gurugram Manesar Urban Complex is hereby approved subject to the following conditions:-

- That this Layout Plan shall be read in conjunction with the clauses appearing on the agreement executed under Rule 11 and the bilateral agreement.
- That the plotted area of the colony shall not exceed 65% of the net planned area of the colony. The entire area reserved for commercial purposes shall be taken as plotted for calculation of the area under plots.
- That the demarcation plans as per site of all the Residential Plots and Commercial site shall be got approved from this Department and construction on these sites shall be governed by the Haryana Building Code, 2017 and the Zoning Plan approved by the Director, Town & Country Planning, Haryana.
- That for proper planning and integration of services in the area adjacent to the colony, the colonizer shall abide by the directions of the DTCP for the modification of layout/plans of the colony.
- That the revenue stas falling in the colony shall be kept free for circulation movement as shown in the layout plan.
- That the colonizer shall abide by the directions of the DTCP, Haryana and accordingly shall make necessary changes in the layout plan for making any adjustment in the alignment of the peripheral roads, internal road circulation or for proper integration of the planning proposals of the adjoining areas.
- No property/plot shall derive access directly from the carriage way of 30 metres or wider sector road if applicable.
- All green belts provided in the layout plan within the licenced areas of the colony shall be developed by the colonizer. All other green belts outside the licenced area shall be developed by the Haryana Urban Development Authority/Colonizer on the directions of the Director, Town and Country Planning, Haryana or in accordance with terms and conditions of the agreements of the licence.
- At the time of demarcation plan, if required percentage of organized open space is reduced, the same will be provided by the colonizer in the licenced area.
- No plot will derive an access from less than 9 metres wide road which mean a minimum clear width of 9 metres between the plots.
- Any excess area over and above the permissible 4% under commercial use shall be deemed to be open space.
- The portion of the sector/development plan roads (green belts) as provided in the Development Plan if applicable, which form part of the licenced area shall be transferred free of cost to the government on the lines of Section 3(i)(iii) of the Act No. 8 of 1975.
- That the odd size plots are being approved subject to the conditions that these plots should not have a frontage of less than 75% of the standard frontage when demarcated.
- That you will have no objection to the regularization of the boundaries of the licence through give and take with the land that HSNP is finally able to acquire in the interest of planned development and integration of services. The decision of the competent authority shall be binding in this regard.
- That the rain water harvesting system shall be provided as per Central Ground Water Authority norms/Haryana Govt. notification as applicable.
- That the colonizer/owner shall use only Light-Emitting Diode lamps (LED) fitting for internal lighting as well as Campus lighting.
- That the colonizer/owner shall ensure the installation of Solar Power Plant as per provisions of Haryana Solar Power Policy, 2016 issued by Haryana Government Renewable Energy Department vide notification No. 19/4/2016-S Power dated 14.03.2016.
- That the colonizer/owner shall ensure the installation of Solar Photovoltaic Power Plant as per the provisions of order No.22/52/2005-S Power dated 21.01.2016 issued by Haryana Government Renewable Energy Department.
- That the colonizer/owner shall strictly comply with the directions issued vide Notification No. 19/6/2016-SP dated 31.03.2016 issued by Haryana Government Renewable Energy Department for enforcement of the Energy Conservation Building Codes.

S. NO.	REC. NO.	WIDTH	LENGTH	AREA PER PLOT IN SQ.MT
1	A	0.500	11.000	5.500
2	B	0.500	12.000	6.000
3	C	0.500	13.000	6.500
4	D	0.500	14.000	7.000
5	E	0.500	15.000	7.500
6	F	0.500	16.000	8.000
7	G	0.500	17.000	8.500
8	H	0.500	18.000	9.000
9	I	0.500	19.000	9.500
10	J	0.500	20.000	10.000
11	K	0.500	21.000	10.500
12	L	0.500	22.000	11.000
13	M	0.500	23.000	11.500
14	N	0.500	24.000	12.000
15	AM	0.000	0.000	0.000
TOTAL				183.500

S. NO.	NOS. OF PLOT	DIMENSION	L	W	LENGTH (IN M)	PLOT AREA (SQM)	TOTAL NOS. OF PLOTS	AREA (SQM)
1	1	0.84x6.25/2	8.000	6.250	142.472	1	142.472	
2	2	1.83	7.000	17.500	122.500	2	245.000	
3	4	11.50x19.0/2(17.00)	20.000	17.000	0.000	1	340.000	
4	5	7x12.00x12.50x18.75x1	9.500	15.000	142.728	1	142.728	
5	6	12.50x16.5/2x(6.75)	6.750	10.000	73.823	1	73.823	
6	7	9.33x16.5/2x(8.00)	8.000	12.000	102.520	1	102.520	
7	8		7.000	16.500	115.500	2	231.000	
8	9		8.000	17.500	140.000	11	1540.000	
9	10		9.000	18.500	166.500	1	166.500	
10	11		10.000	19.500	195.000	1	195.000	
11	12		11.000	20.500	225.500	1	225.500	
12	13		12.000	21.500	258.000	1	258.000	
13	14		13.000	22.500	292.500	1	292.500	
14	15		14.000	23.500	329.000	1	329.000	
15	16		15.000	24.500	367.500	1	367.500	
16	17		16.000	25.500	408.000	1	408.000	
17	18		17.000	26.500	450.500	1	450.500	
18	19		18.000	27.500	495.000	1	495.000	
19	20		19.000	28.500	541.500	1	541.500	
20	21		20.000	29.500	590.000	1	590.000	
21	22		21.000	30.500	640.500	1	640.500	
22	23		22.000	31.500	693.000	1	693.000	
23	24		23.000	32.500	747.500	1	747.500	
24	25		24.000	33.500	804.000	1	804.000	
25	26		25.000	34.500	862.500	1	862.500	
26	27		26.000	35.500	923.000	1	923.000	
27	28		27.000	36.500	985.500	1	985.500	
28	29		28.000	37.500	1050.000	1	1050.000	
29	30		29.000	38.500	1116.500	1	1116.500	
30	31		30.000	39.500	1185.000	1	1185.000	
31	32		31.000	40.500	1255.500	1	1255.500	
32	33		32.000	41.500	1328.000	1	1328.000	
33	34		33.000	42.500	1402.500	1	1402.500	
34	35		34.000	43.500	1479.000	1	1479.000	
35	36		35.000	44.500	1557.500	1	1557.500	
36	37		36.000	45.500	1638.000	1	1638.000	
37	38		37.000	46.500	1720.500	1	1720.500	
38	39		38.000	47.500	1805.000	1	1805.000	
39	40		39.000	48.500	1891.500	1	1891.500	
40	41		40.000	49.500	1980.000	1	1980.000	
41	42		41.000	50.500	2070.500	1	2070.500	
42	43		42.000	51.500	2163.000	1	2163.000	
43	44		43.000	52.500	2257.500	1	2257.500	
44	45		44.000	53.500	2354.000	1	2354.000	
45	46		45.000	54.500	2452.500	1	2452.500	
46	47		46.000	55.500	2553.000	1	2553.000	
47	48		47.000	56.500	2655.500	1	2655.500	
48	49		48.000	57.500	2760.000	1	2760.000	
49	50		49.000	58.500	2866.500	1	2866.500	
50	51		50.000	59.500	2975.000	1	2975.000	
51	52		51.000	60.500	3085.500	1	3085.500	
52	53		52.000	61.500	3198.000	1	3198.000	
53	54		53.000	62.500	3312.500	1	3312.500	
54	55		54.000	63.500	3429.000	1	3429.000	
55	56		55.000	64.500	3547.500	1	3547.500	
56	57		56.000	65.500	3668.000	1	3668.000	
57	58		57.000	66.500	3790.500	1	3790.500	
58	59		58.000	67.500	3915.000	1	3915.000	
59	60		59.000	68.500	4041.500	1	4041.500	
60	61		60.000	69.500	4170.000	1	4170.000	
61	62		61.000	70.500	4300.500	1	4300.500	
62	63		62.000	71.500	4433.000	1	4433.000	
63	64		63.000	72.500	4567.500	1	4567.500	
64	65		64.000	73.500	4704.000	1	4704.000	
65	66		65.000	74.500	4842.500	1	4842.500	
66	67		66.000	75.500	4983.000	1	4983.000	
67	68		67.000	76.500	5125.500	1	5125.500	
68	69		68.000	77.500	5270.000	1	5270.000	
69	70		69.000	78.500	5416.500	1	5416.500	
70	71		70.000	79.500	5565.000	1	5565.000	
71	72		71.000	80.500	5715.500	1	5715.500	
72	73		72.000	81.500	5868.000	1	5868.000	
73	74		73.000	82.500	6022.500	1	6022.500	
74	75		74.000	83.500	6179.000	1	6179.000	
75	76		75.000	84.500	6337.500	1	6337.500	
76	77		76.000	85.500	6498.000	1	6498.000	
77	78		77.000	86.500	6660.500	1	6660.500	
78	79		78.000	87.500	6825.000	1	6825.000	
79	80		79.000	88.500	6991.500	1	6991.500	
80	81		80.000	89.500	7160.000	1	7160.000	
81	82		81.000	90.500	7330.500	1	7330.500	
82	83		82.000	91.500	7503.000	1	7503.000	
83	84		83.000	92.500	7677.500	1	7677.500	
84	85		84.000	93.500	7854.000	1	7854.000	
85	86		85.000	94.500	8032.500	1	8032.500	
86	87		86.000	95.500	8213.000	1	8213.000	
87	88		87.000	96.500	8395.500	1	8395.500	
88	89		88.000	97.500	8580.000	1	8580.000	
89	90		89.000	98.500	8766.500	1	8766.500	
90	91		90.000	99.500	8955.000	1	8955.000	
91	92		91.000	100.500	9145.500	1	9145.500	
92	93		92.000	101.500	9338.000	1	9338.000	
93	94		93.000	102.500	9532.500	1	9532.500	
94	95		94.000	103.500	9729.000	1	9729.000	
95	96		95.000	104.500	9927.500	1	9927.500	
96	97		96.000	105.500	10128.000	1	10128.000	
97	98		97.000	106.500	10330.500	1	10330.500	
98	99		98.000	107.500	10535.000	1	10535.000	
99	100		99.000	108.500	10741.500	1	10741.500	
100	101		100.000	109.500	10950.000	1	10950.000	
101	102		101.000	110.500	11160.500	1	11160.500	
102	103		102.000	111.500	11373.000	1	11373.000	
103	104		103.000	112.500	11587.500	1	11587.500	
104	105		104.000	113.500	11804.000	1	11804.000	
105	106		105.000	114.500	12022.500	1	12022.500	
106	107		106.000	115.500	12243.000	1	12243.000	
107	108		107.000	116.500	12465.500	1	12465.500	
108	109		108.000	117.500	12690.000	1	12690.000	
109	110		109.000	118.500	12916.500	1	12916.500	
110	111		110.000	119.500	13145.000	1	13145.000	
111	112		111.000	120.500	13375.500	1	13375.500	
112	113		112.000	121.500	13608.000	1	13608.000	
113	114		113.000	122.500	13842.500	1	13842.500	
114	115		114.000	123.500	14079.000	1	14079.000	
115	116		115.000	124.500	14317.500	1	14317.500	
116	117		116.000	125.500	14558.000	1	14558.000	
117	118		117.000	126.500	14800.500	1	14800.500	
118	119		118.000	127.500	15045.000	1	15045.000	
119	120		119.000	128.500	15291.500	1	15291.500	
120	121		120.000	129.500	15540.000	1	15540.000	
121	122		121.000	130.500	15790.500	1	15790.500	
122	123		122.000	131.500	16043.000	1	16043.000	
123	124		123.000	132.500	16297.500	1	16297.500	
124	125		124.000	133.500	16554.000	1	16554.000	
125	126		125.000	134.500	16812.500	1	16812.500	
126	127		126.000	135.500	17073.000	1	17073.000	
127	128		127.000	136.500	17335.500	1	17335.500	
128	129		128.000	137.500	17600.000	1	17600.000	
129	130		129.000	138.500	17866.500	1	17866.500	
130	131		130.000	139.500	18135.00			

SEWERAGE SCHEME

To be read with Licence No. 18 of 2022 dated 11/03/2022

That this Layout plan for an area measuring 6.30 acres (Drawing no. DTCP-B/75 dated 12-09-21) comprised of licence which is issued in respect of Affordable Residential Plotted Colony (Under Dawn Dayal An Awaz Yojna) being developed by Conmin Infra Developers LLP in Sector-78, Gurugram Manesar Urban Complex is hereby approved subject to the following conditions:-

1. That this Layout Plan shall be read in conjunction with the clauses appearing on the agreement executed under Rule 11 and the bilateral agreement.
2. That the plotted area of the colony shall not exceed 65% of the net planned area of the colony. The entire area reserved for commercial purposes shall be taken as plotted for calculation of the area under plots.
3. That the demarcation plans as per site of all the Residential Plots and Commercial site shall be got approved from this Department and construction on these sites shall be governed by the Haryana Building Code, 2017 and the Zoning Plan approved by the Director, Town & Country Planning, Haryana.
4. That for proper planning and integration of services in the area adjacent to the colony, the colonizer shall abide by the directions of the DTCP for the modification of layout plans of the colony.
5. That the revenue rasta falling in the colony shall be kept free for circulation/movement as shown in the layout plan.
6. That the colonizer shall abide by the directions of the DTCP, Haryana and accordingly shall make necessary changes in the layout plan for making any adjustment in the alignment of the parhaural roads, internal road circulation or for proper integration of the planning proposals of the adjoining areas.
7. That no property/plot shall derive access directly from the carriage way of 30 metres or wider sector road if applicable.
8. All green belts provided in the layout plan within the licensed area of the colony shall be developed by the colonizer. All other green belts outside the licensed area shall be developed by the Haryana Urban Development Authority/colonizer on the directions of the Director, Town and Country planning, Haryana or in accordance with terms and conditions of the agreements of the licensee.
9. At the time of demarcation plan, if required percentage of organized open space is reduced, the same will be provided by the colonizer in the licensed area.
10. No plot will derive an access from less than 9 metres wide road which means a minimum clear width of 9 metres between the plots.
11. Any excess area over and above the permissible 4% under commercial use shall be deemed to be open space.
12. The portion of the sector/development plan roads (green belts as provided in the Development Plan if applicable, which form part of the licensed area shall be transferred free of cost to the government on the lines of Section 3(i)(iv) of the Act No. 8 of 1975.
13. That the odd size plots are being approved subject to the conditions that these plots should not have a frontage of less than 75% of the standard frontage when demarcated.
14. That you will have no objection to the regularization of the boundaries of the licence through give and take with the land that HSNP is finally able to acquire in the interest of planned development and integration of services. The decision of the competent authority shall be binding in this regard.
15. That the rain water harvesting system shall be provided as per Central Ground Water Authority norms/Haryana Govt. notification as applicable.
16. That the colonizer/owner shall use only Light-Emitting Diode lamps (LED) fitting for internal lighting as well as Campus lighting.
17. That the colonizer/owner shall ensure the installation of Solar Power Plant as per provisions of Haryana Solar Power Policy, 2016 issued by Haryana Government Renewable Energy Department vide Notification No. 19/4/2016-5 Power dated 14.03.2016.
18. That the colonizer/owner shall ensure the installation of Solar Photovoltaic Power Plant as per the provisions of order No.22/52/2005-5 Power dated 21.03.2016 issued by Haryana Government Renewable Energy Department.
19. That the colonizer/owner shall strictly comply with the directions issued vide Notification No. 15/6/2016-5P dated 31.03.2016 issued by Haryana Government Renewable Energy Department for enforcement of the Energy Conservation Building Codes.

LEGEND

1. SEWER LINE
2. D.I. PIPE (BY PLUMBING) STP TO GOVT. SEWER
3. GOVT. SEWER LINE
4. S.T.P.
5. F.L. = 237.70
G.L. = 237.25
I.L. = 235.20

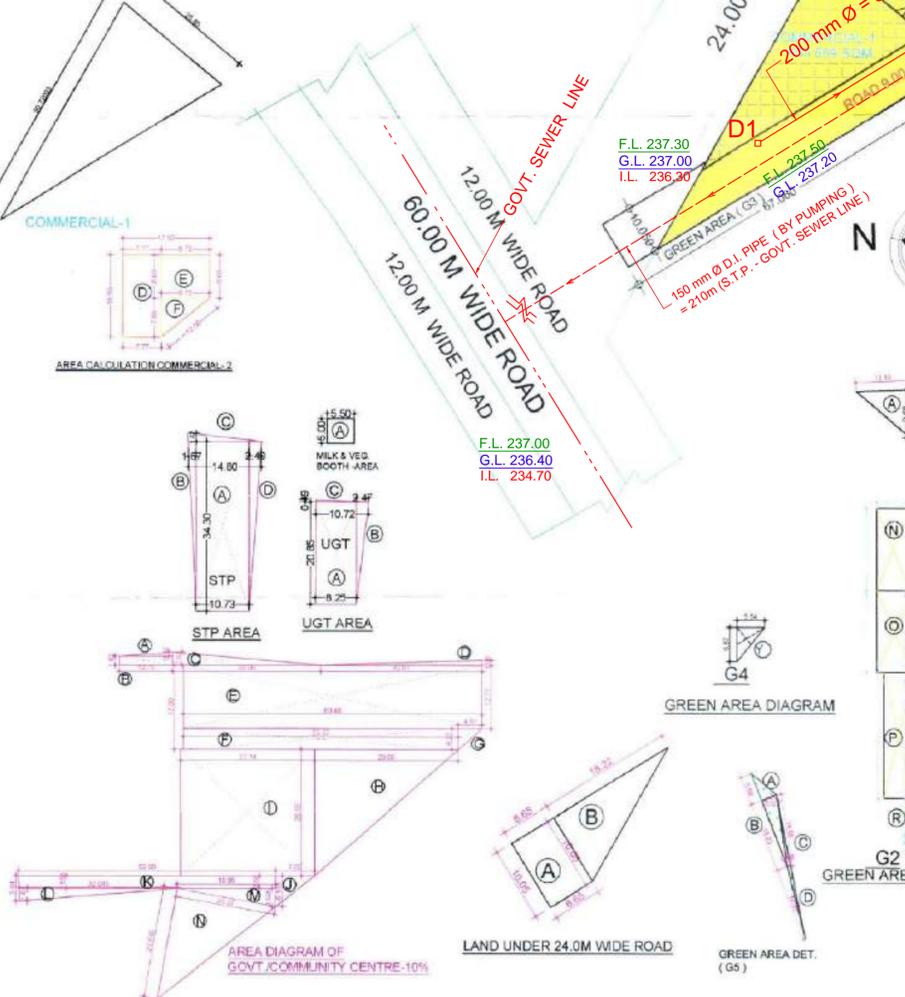
PHASE-2 SHOWN AS

S. NO.	NOS. OF PLOT	DIMENSION	WIDTH (M)	LENGTH (M)	PLOT AREA (SQM)	TOTAL NO. OF PLOTS	AREA (SQM)
1	2	8.84x6.35/2	8.895	17.600	142.472	1	142.472
2	2	8.84x6.35/2	8.895	17.600	142.472	2	284.944
3	4	11.00x5.02/2 (17.46)	6.000	17.600	105.000	1	105.000
4	5	7x12.00 (12.37x18.78)	9.900	18.000	178.200	1	178.200
5	7	12.50x6.32/2 (8.14)	6.740	18.000	121.320	1	121.320
6	7	9.33x16.92/2 (8.00)	8.000	16.900	135.200	1	135.200
7	6	12.50x6.32/2 (8.14)	6.740	18.000	121.320	1	121.320
8	8	9.33x16.92/2 (8.00)	8.000	16.900	135.200	1	135.200
9	8	9.33x16.92/2 (8.00)	8.000	16.900	135.200	1	135.200
10	10	10x10	10.000	10.000	100.000	11	1100.000
11	21	5.31x5.19x2/2 (10.96)	5.153	10.960	56.677	1	56.677
12	22	5.31x5.19x2/2 (10.96)	5.153	10.960	56.677	1	56.677
13	23	5.31x5.19x2/2 (10.96)	5.153	10.960	56.677	1	56.677
14	24	12.85x15.04/2 (12.05)	6.500	15.040	97.680	1	97.680
15	25	15.06x16.21/2 (15.63)	6.500	16.210	105.300	1	105.300
16	26	16.21x16.21/2 (16.21)	6.500	16.210	105.300	1	105.300
17	57	57x10.00	6.700	16.900	113.000	8	904.000
18	61		6.700	16.900	113.000	1	113.000
19	62	10.44x7.29/2 (16.50)	6.965	16.500	115.875	1	115.875
20	63	9.29x9.17/2 (16.50)	7.869	16.500	129.825	1	129.825
21	64		6.700	16.900	113.000	9	1017.000
22	80	10x11	6.700	16.900	113.000	6	678.000
23	52		6.700	16.900	113.000	1	113.000
24	93	9.77x5.52/2 (16.50)	6.660	16.500	109.700	1	109.700
25	94	9.55x7.34/2 (16.50)	6.450	16.500	106.425	1	106.425
26	95	10x10	6.700	16.900	113.000	6	678.000
27	109	10x11	6.700	16.900	113.000	9	1017.000
28	118	8.51x6.47/2 (16.50)	7.490	16.500	123.960	1	123.960
						58	6961.548
							PERCENTAGE 56.97

DESCRIPTION	AREA IN ACRES	AREA IN SQM.
Total Land Area	6.3012	25500.011
Proposed Green Area (7.50%)	0.47259	1912.501
Required Green Area (7.888%)	0.47573	1925.215
Required 10% Area to be transferred free of cost to the Government for Community Site	0.63012	2550.0011
Proposed Area to be transferred free of cost to the Government for Community Site (10.100%)	0.6491	2626.890
Permissible Area Under Plots (61%)	3.84373	15555.007
Proposed Area Under Plots (53.42%)	3.36615	13622.311
Permissible Commercial Area (4%)	0.25205	1020.000
Proposed Commercial Area (3.554%)	0.22411	906.945
Area for STP (1.715%)	0.0247	450.026
Area for UGT (0.761%)	0.0495	200.39
Area for Milk & Vegetable booth (0.134%)	0.0066	27.50
	0.1875	677.815
Proposed Plots	118	
Permissible Density	240-400 PPA	
Total Population (@ 18.0 Persons per Plot)	2124	
Proposed Density	333.14	
50% Area to be Freed of Area under Plotted Development required	1.68308	6811.156
Proposed 50% Area to be Freed of Area under Plotted Development	1.7028	6890.906
Total releasable area	3.59026	14529.256
(53.42x3.556 = 56.976%)		

S. NO.	REC. NO.	WIDTH (M)	LENGTH (M)	AREA PER PLOT (SQM)
1	A	0.500	11.300	5.650
2	B	0.500	11.300	5.650
3	C	0.500	11.300	5.650
4	D	0.500	11.300	5.650
5	E	0.500	11.300	5.650
6	F	0.500	11.300	5.650
7	G	0.500	11.300	5.650
8	H	0.500	11.300	5.650
9	I	0.500	11.300	5.650
10	J	0.500	11.300	5.650
11	K	0.500	11.300	5.650
12	L	0.500	11.300	5.650
13	M	0.500	11.300	5.650
14	N	0.500	11.300	5.650
15	O	0.500	11.300	5.650
16	P	0.500	11.300	5.650
17	Q	0.500	11.300	5.650
18	R	0.500	11.300	5.650
19	S	0.500	11.300	5.650
20	T	0.500	11.300	5.650
				TOTAL 112.200

S. NO.	REC. NO.	WIDTH (M)	LENGTH (M)	AREA PER PLOT (SQM)
1	A	0.500	11.300	5.650
2	B	0.500	11.300	5.650
3	C	0.500	11.300	5.650
4	D	0.500	11.300	5.650
5	E	0.500	11.300	5.650
6	F	0.500	11.300	5.650
7	G	0.500	11.300	5.650
8	H	0.500	11.300	5.650
9	I	0.500	11.300	5.650
10	J	0.500	11.300	5.650
11	K	0.500	11.300	5.650
12	L	0.500	11.300	5.650
13	M	0.500	11.300	5.650
14	N	0.500	11.300	5.650
15	O	0.500	11.300	5.650
16	P	0.500	11.300	5.650
17	Q	0.500	11.300	5.650
18	R	0.500	11.300	5.650
19	S	0.500	11.300	5.650
20	T	0.500	11.300	5.650
				TOTAL 112.200



STORM WATER DRAINAGE SCHEME

LC-4507

S. NO	REC. NO	WIDTH	LENGTH	AREA PER PLOT IN SQM
1	A	0.500	11.280	5.640
2	B	0.500	17.280	8.640
3	C	0.500	21.270	10.635
4	D	0.500	26.880	13.440
5	E	0.500	33.750	16.875
6	F	0.500	41.580	20.790
7	G	0.500	50.400	25.200
8	H	0.500	60.300	30.150
9	I	0.500	71.250	35.625
10	J	0.500	83.250	41.625
11	K	0.500	96.300	48.150
12	L	0.500	110.400	55.200
13	M	0.500	125.550	62.775
14	N	0.500	141.750	70.875
15	MI	0.500	159.000	79.500
TOTAL				1103.850

S. NO.	NOS. OF PLOT	DIMENSION	L	W	LENGTH (IN M)	PLOT AREA (SQM)	TOTAL NO. OF PLOTS	AREA (SQM)
1	1	5.84x6.35/2	6.095	6.350	17.600	142.472	1	142.472
2	2	2.83	7.000	17.500	127.500	2	255.000	
3	4	11.50x15.62/2(17.44)	10.000	17.400	174.000	1	174.000	
4	5	9.12x10.91/2(12.56-18.74)	9.500	15.615	148.723	1	148.723	
5	6	12.50x9.33/2(6.74)	8.740	10.915	73.823	1	73.823	
6	7	9.88x16.55/2(8.03)	8.000	16.550	132.400	1	132.400	
7	8,9		7.000	16.550	115.850	2	231.700	
8	10 to 20		8.100	17.500	141.750	11	1559.250	
9	21	5.11x4.15/2(2.18-9.86)	5.153	4.150	56.477	1	56.477	
10	22	5.11x4.15/2(2.18-9.86)	5.153	4.150	56.477	1	56.477	
11	23	12.76x13.97/2(11.33)	6.500	13.970	66.478	1	66.478	
12	24	13.91x15.06/2(12.48)	6.500	15.060	74.153	1	74.153	
13	25	15.06x16.21/2(12.48)	6.500	16.210	81.628	1	81.628	
14	26	16.21x17.36/2(13.56)	6.500	17.360	90.840	1	90.840	
15	27 to 60		6.700	18.880	126.544	4	506.176	
16	61		8.700	19.550	140.285	1	140.285	
17	62	10.68x7.25/2(16.55)	8.965	7.250	65.000	1	65.000	
18	63	9.29x9.37/2(16.55)	7.880	9.370	73.850	1	73.850	
19	64 to 81		6.700	18.880	126.544	6	759.264	
20	82		8.700	19.550	140.285	1	140.285	
21	83		8.45	18.750	137.250	1	137.250	
22	84 to 100		6.700	18.880	126.544	6	759.264	
23	101 to 117		6.700	18.880	126.544	6	759.264	
24	118	8.51x4.47/2(16.55)	7.480	4.470	33.540	1	33.540	
TOTAL							58	6993.348
PERCENTAGE								50.677

S. NO	REC. NO	WIDTH	LENGTH	AREA PER PLOT IN SQM
1	A	0.500	1.500	0.750
2	B	0.500	2.000	1.000
3	C	0.500	2.500	1.250
4	D	0.500	3.000	1.500
5	E	0.500	3.500	1.750
6	F	0.500	4.000	2.000
7	G	0.500	4.500	2.250
8	H	0.500	5.000	2.500
9	I	0.500	5.500	2.750
10	J	0.500	6.000	3.000
11	K	0.500	6.500	3.250
12	L	0.500	7.000	3.500
13	M	0.500	7.500	3.750
14	N	0.500	8.000	4.000
15	O	0.500	8.500	4.250
16	P	0.500	9.000	4.500
17	Q	0.500	9.500	4.750
18	R	0.500	10.000	5.000
19	S	0.500	10.500	5.250
20	T	0.500	11.000	5.500
21	U	0.500	11.500	5.750
22	V	0.500	12.000	6.000
23	W	0.500	12.500	6.250
24	X	0.500	13.000	6.500
25	Y	0.500	13.500	6.750
26	Z	0.500	14.000	7.000
27	AA	0.500	14.500	7.250
28	AB	0.500	15.000	7.500
29	AC	0.500	15.500	7.750
30	AD	0.500	16.000	8.000
31	AE	0.500	16.500	8.250
32	AF	0.500	17.000	8.500
33	AG	0.500	17.500	8.750
34	AH	0.500	18.000	9.000
35	AI	0.500	18.500	9.250
36	AJ	0.500	19.000	9.500
37	AK	0.500	19.500	9.750
38	AL	0.500	20.000	10.000
39	AM	0.500	20.500	10.250
40	AN	0.500	21.000	10.500
41	AO	0.500	21.500	10.750
42	AP	0.500	22.000	11.000
43	AQ	0.500	22.500	11.250
44	AR	0.500	23.000	11.500
45	AS	0.500	23.500	11.750
46	AT	0.500	24.000	12.000
47	AU	0.500	24.500	12.250
48	AV	0.500	25.000	12.500
49	AW	0.500	25.500	12.750
50	AX	0.500	26.000	13.000
51	AY	0.500	26.500	13.250
52	AZ	0.500	27.000	13.500
53	BA	0.500	27.500	13.750
54	BB	0.500	28.000	14.000
55	BC	0.500	28.500	14.250
56	BD	0.500	29.000	14.500
57	BE	0.500	29.500	14.750
58	BF	0.500	30.000	15.000
59	BG	0.500	30.500	15.250
60	BH	0.500	31.000	15.500
61	BI	0.500	31.500	15.750
62	BJ	0.500	32.000	16.000
63	BK	0.500	32.500	16.250
64	BL	0.500	33.000	16.500
65	BM	0.500	33.500	16.750
66	BN	0.500	34.000	17.000
67	BO	0.500	34.500	17.250
68	BP	0.500	35.000	17.500
69	BQ	0.500	35.500	17.750
70	BR	0.500	36.000	18.000
71	BS	0.500	36.500	18.250
72	BT	0.500	37.000	18.500
73	BU	0.500	37.500	18.750
74	BV	0.500	38.000	19.000
75	BW	0.500	38.500	19.250
76	BX	0.500	39.000	19.500
77	BY	0.500	39.500	19.750
78	BZ	0.500	40.000	20.000
79	CA	0.500	40.500	20.250
80	CB	0.500	41.000	20.500
81	CC	0.500	41.500	20.750
82	CD	0.500	42.000	21.000
83	CE	0.500	42.500	21.250
84	CF	0.500	43.000	21.500
85	CG	0.500	43.500	21.750
86	CH	0.500	44.000	22.000
87	CI	0.500	44.500	22.250
88	CK	0.500	45.000	22.500
89	CL	0.500	45.500	22.750
90	CM	0.500	46.000	23.000
91	CN	0.500	46.500	23.250
92	CO	0.500	47.000	23.500
93	CP	0.500	47.500	23.750
94	CQ	0.500	48.000	24.000
95	CR	0.500	48.500	24.250
96	CS	0.500	49.000	24.500
97	CT	0.500	49.500	24.750
98	CU	0.500	50.000	25.000
99	CV	0.500	50.500	25.250
100	CW	0.500	51.000	25.500
101	CX	0.500	51.500	25.750
102	CY	0.500	52.000	26.000
103	CA	0.500	52.500	26.250
104	CB	0.500	53.000	26.500
105	CC	0.500	53.500	26.750
106	CD	0.500	54.000	27.000
107	CE	0.500	54.500	27.250
108	CF	0.500	55.000	27.500
109	CG	0.500	55.500	27.750
110	CH	0.500	56.000	28.000
111	CI	0.500	56.500	28.250
112	CK	0.500	57.000	28.500
113	CL	0.500	57.500	28.750
114	CM	0.500	58.000	29.000
115	CN	0.500	58.500	29.250
116	CO	0.500	59.000	29.500
117	CP	0.500	59.500	29.750
118	CQ	0.500	60.000	30.000
119	CR	0.500	60.500	30.250
120	CS	0.500	61.000	30.500
121	CT	0.500	61.500	30.750
122	CU	0.500	62.000	31.000
123	CV	0.500	62.500	31.250
124	CW	0.500	63.000	31.500
125	CX	0.500	63.500	31.750
126	CY	0.500	64.000	32.000
127	CA	0.500	64.500	32.250
128	CB	0.500	65.000	32.500
129	CC	0.500	65.500	32.750
130	CD	0.500	66.000	33.000
131	CE	0.500	66.500	33.250
132	CF	0.500	67.000	33.500
133	CG	0.500	67.500	33.750
134	CH	0.500	68.000	34.000
135	CI	0.500	68.500	34.250
136	CK	0.500	69.000	34.500
137	CL	0.500	69.500	34.750
138	CM	0.500	70.000	35.000
139	CN	0.500	70.500	35.250
140	CO	0.500	71.000	35.500
141	CP	0.500	71.500	35.750
142	CQ	0.500	72.000	36.000
143	CR	0.500	72.500	36.250
144	CS	0.500	73.000	36.500
145	CT	0.500	73.500	36.750
146	CU	0.500	74.000	37.000
147	CV	0.500	74.500	37.250
148	CW	0.500	75.000	37.500
149	CX	0.500	75.500	37.750
150	CY	0.500	76.000	38.000
151	CA	0.500	76.500	38.250
152	CB	0.500	77.000	38.500
153	CC	0.500	77.500	38.750
154	CD	0.500	78.000	39.000
155	CE	0.500	78.500	39.250
156	CF	0.500	79.000	39.500
157	CG	0.500	79.500	39.750
158	CH	0.500	80.000	40.000
159	CI	0.500	80.500	40.250
160	CK	0.500	81.000	40.500
161	CL	0.500	81.500	40.750
162	CM	0.500	82.000	41.000
163	CN	0.500	82.500	41.250
164	CO	0.500	83.000	41.500
165	CP	0.500	83.500	41.750
166	CQ	0.500	84.000	42.000
167	CR	0.500	84.500	42.250
168	CS	0.500	85.000	42.500
169	CT	0.500	85.500	42.750
170	CU	0.500	86.000	43.000
171	CV	0.500	86.500	43.250
172	CW	0.500	87.000	43.500
173	CX	0.500	87.500	43.750
174	CY	0.500	88.000	44.000
175	CA	0.500	88.500	44.250
176	CB	0.500	89.000	44.500
177	CC	0.500	89.500	44.750
178	CD	0.500	90.000	45.000
179	CE	0.500	90.500	45.250
180	CF	0.500	91.000	45.500
181	CG	0.500	91.500	45.750
182	CH	0.500	92.00	

WATER SUPPLY SCHEME

LC-4507

To be read with Licence No. 18 of 2022 dated 11/03/2022

That this Layout plan for an area measuring 6.30 acres (Drawing no. DTCP-075 dated 14.09.21) comprising of licence which is issued in respect of Affordable Residential Plotted Colony (Under Deem Dayal Jan Awas Yojna) being developed by Conmin Infra Developers LLP in Sector-78, Gurugram Manesar Urban Complex is hereby approved subject to the following conditions:-

1. That this Layout Plan shall be read in conjunction with the clauses appearing on the agreement executed under Rule 11 and the bilateral agreement.
2. That the plotted area of the colony shall not exceed 65% of the net planned area of the colony. The entire area reserved for commercial purposes shall be taken as plotted for calculation of the area under plots.
3. That the demarcation plans as per site of all the Residential Plots and Commercial site shall be got approved from this Department and construction on these sites shall be governed by the Haryana Building Code, 2017 and the Zoning Plan approved by the Director, Town & Country Planning, Haryana.
4. That for proper planning and integration of services in the area adjacent to the colony, the colonizer shall abide by the directions of the DTCP for the modification of layout plans of the colony.
5. That the reverse rats falling in the colony shall be kept free for circulation movement as shown in the layout plan.
6. That the colonizer shall abide by the directions of the DTCP, Haryana and accordingly shall make necessary changes in the layout plan for making any adjustment in the alignment of the peripheral roads, internal road circulation or for proper integration of the planning proposals of the adjoining areas.
7. That no property/plot shall derive access directly from the carriage way of 30 metres or wider sector road if applicable.
8. All green belts provided in the layout plan within the licenced areas of the colony shall be developed by the colonizer. All other green belts outside the licenced area shall be developed by the Haryana Urban Development Authority/colonizer on the directions of the Director, Town and Country Planning, Haryana or in accordance with terms and conditions of the agreements of the licence.
9. At the time of demarcation plan, if required percentage of organized open space is reduced, the same will be provided by the colonizer in the licenced area.
10. No plot will derive an access from less than 9 metres wide road nor a minimum clear width of 9 metres between the plots.
11. Any excess area over and above the permissible (A) under commercial use shall be deemed to be open space.
12. The portion of the sector/development plan roads (green belts) as provided in the Development Plan if applicable, which form part of the licenced area shall be transferred free of cost to the government on the lines of Section 3(3)(a)(iii) of the Act No.8 of 1975.
13. That the odd size plots are being approved subject to the conditions that these plots should not have a frontage of less than 75% of the standard frontage when demarcated.
14. That you will have no objection to the regularization of the boundaries of the licence through givc and take with the land that HSPV is finally able to acquire in the interest of planned development and integration of services. The decision of the competent authority shall be binding in this regard.
15. That the rain water harvesting system shall be provided as per Central Ground Water Authority norms/Haryana Govt. notification as applicable.
16. That the colonizer/owner shall use only Light Emitting Diode lamps (LED) fitting for internal lighting as well as Campus lighting.
17. That the colonizer/owner shall ensure the installation of Solar Power Plant as per provisions of Haryana Solar Power Policy, 2016 issued by Haryana Government, Renewable Energy Department vide Notification No. 19/4/2016-S Power dated 14.03.2016.
18. That the colonizer/owner shall ensure the installation of Solar Photovoltaic Power Plant as per the provisions of order No.22/22/2005-S Power dated 21.03.2016 issued by Haryana Government, Renewable Energy Department.
19. That the colonizer/owner shall strictly comply with the directions issued vide Notification No. 19/6/2016-SP dated 31.03.2016 issued by Haryana Government, Renewable Energy Department for enforcement of the Energy Conservation Building Codes.

LEGEND :-

1. WATER SUPPLY LINE (DOMESTIC)
2. WATER SUPPLY LINE (FLUSHING)
3. RISING MAIN FROM GOVT. LINE TO U.G.T.
4. RISING MAIN FROM T.W. TO U.G.T.
5. GOVT. WATER SUPPLY LINE
6. T.W.
7. U.G.T.
8. S.T.P.
9. FIRE HYDRANT
10. F.L. = 237.10
G.L. = 236.50

PHASE-2 SHOWN AS PHASE-2

AREA CALCULATION OF GREEN AREA (G1)				DETAIL OF SUPERSEDED PLOTS								
S. NO.	REC. NO.	WIDTH	LENGTH	AREA PER PLOT IN SQM	L	W	LENGTH (IN M)	WIDTH (IN M)	PLotted AREA (SQM)	TOTAL NO. OF PLOTS	AREA (SQM)	
1	A	12.00	11.80	141.60	1	1	8.84+3.92/2	8.095	17.800	142.472	1	142.472
2	B	12.00	12.20	146.40	2	2	8.84	7.800	17.500	122.500	2	245.000
3	C	12.00	12.20	146.40	3	3	11.50+5.50/2 (7.50)	8.000	17.400	0.000	1	149.500
4	D	12.00	12.20	146.40	4	4	7.12+3.00/2 (5.06)	8.500	17.500	141.750	1	141.750
5	E	12.00	12.20	146.40	5	5	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
6	F	12.00	12.20	146.40	6	6	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
7	G	12.00	12.20	146.40	7	7	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
8	H	12.00	12.20	146.40	8	8	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
9	I	12.00	12.20	146.40	9	9	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
10	J	12.00	12.20	146.40	10	10	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
11	K	12.00	12.20	146.40	11	11	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
12	L	12.00	12.20	146.40	12	12	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
13	M	12.00	12.20	146.40	13	13	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
14	N	12.00	12.20	146.40	14	14	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
15	HL	12.00	12.20	146.40	15	15	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
16	HL	12.00	12.20	146.40	16	16	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
17	HL	12.00	12.20	146.40	17	17	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
18	HL	12.00	12.20	146.40	18	18	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
19	HL	12.00	12.20	146.40	19	19	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
20	HL	12.00	12.20	146.40	20	20	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
21	HL	12.00	12.20	146.40	21	21	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
22	HL	12.00	12.20	146.40	22	22	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
23	HL	12.00	12.20	146.40	23	23	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
24	HL	12.00	12.20	146.40	24	24	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
25	HL	12.00	12.20	146.40	25	25	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
26	HL	12.00	12.20	146.40	26	26	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
27	HL	12.00	12.20	146.40	27	27	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
28	HL	12.00	12.20	146.40	28	28	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
29	HL	12.00	12.20	146.40	29	29	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
30	HL	12.00	12.20	146.40	30	30	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
31	HL	12.00	12.20	146.40	31	31	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
32	HL	12.00	12.20	146.40	32	32	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
33	HL	12.00	12.20	146.40	33	33	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
34	HL	12.00	12.20	146.40	34	34	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
35	HL	12.00	12.20	146.40	35	35	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
36	HL	12.00	12.20	146.40	36	36	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
37	HL	12.00	12.20	146.40	37	37	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
38	HL	12.00	12.20	146.40	38	38	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
39	HL	12.00	12.20	146.40	39	39	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
40	HL	12.00	12.20	146.40	40	40	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
41	HL	12.00	12.20	146.40	41	41	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
42	HL	12.00	12.20	146.40	42	42	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
43	HL	12.00	12.20	146.40	43	43	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
44	HL	12.00	12.20	146.40	44	44	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
45	HL	12.00	12.20	146.40	45	45	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
46	HL	12.00	12.20	146.40	46	46	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
47	HL	12.00	12.20	146.40	47	47	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
48	HL	12.00	12.20	146.40	48	48	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
49	HL	12.00	12.20	146.40	49	49	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
50	HL	12.00	12.20	146.40	50	50	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
51	HL	12.00	12.20	146.40	51	51	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
52	HL	12.00	12.20	146.40	52	52	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
53	HL	12.00	12.20	146.40	53	53	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
54	HL	12.00	12.20	146.40	54	54	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
55	HL	12.00	12.20	146.40	55	55	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
56	HL	12.00	12.20	146.40	56	56	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
57	HL	12.00	12.20	146.40	57	57	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
58	HL	12.00	12.20	146.40	58	58	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
59	HL	12.00	12.20	146.40	59	59	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
60	HL	12.00	12.20	146.40	60	60	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
61	HL	12.00	12.20	146.40	61	61	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
62	HL	12.00	12.20	146.40	62	62	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
63	HL	12.00	12.20	146.40	63	63	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
64	HL	12.00	12.20	146.40	64	64	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
65	HL	12.00	12.20	146.40	65	65	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
66	HL	12.00	12.20	146.40	66	66	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
67	HL	12.00	12.20	146.40	67	67	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
68	HL	12.00	12.20	146.40	68	68	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
69	HL	12.00	12.20	146.40	69	69	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
70	HL	12.00	12.20	146.40	70	70	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
71	HL	12.00	12.20	146.40	71	71	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
72	HL	12.00	12.20	146.40	72	72	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
73	HL	12.00	12.20	146.40	73	73	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
74	HL	12.00	12.20	146.40	74	74	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
75	HL	12.00	12.20	146.40	75	75	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
76	HL	12.00	12.20	146.40	76	76	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
77	HL	12.00	12.20	146.40	77	77	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
78	HL	12.00	12.20	146.40	78	78	9.83+4.50/2 (2.16)	8.000	17.500	103.520	1	103.520
79	HL	12.00	12.20	146.40	79	79	12.50+5.15/2 (3.82)	8.700	18.953	73.821	1	73.821
80	HL	12.00	12.20									