

कार्यालय मुरादाबाद विकास प्राधिकरण, मुरादाबाद



I Pankaj Pandey, Currently posted as Executive Engineer, at Moradabad Development Authority, have undertaken assignment as Engineer for the project- Govindpuram Residential Scheme (Phase-01)- situated at village- Mangupura & Manoharpur, Tehsil- Moradabad, Moradabad Development Authority, District - Moradabad, PIN- 244001, admeasuring 271552 sqm area being developed by Moradabad Development Authority, Following are the project specifications for various works to be done:

1. Roads & Pavements

Proposed road hierarchy: 24 m, 18 m, 12 m, 9 m, and 7.5 m wide internal roads.

Roads constructed as per IRC standards.

Road Crust Specifications:

P/L Granular Sub-Base (GSB)

P/L Wet Mix Macadam (WMM)

P/L Graded Bituminous Macadam with bitumen @ 4.5% by weight of total mix over tack coat @ 0.60 kg/m²

P/L Bituminous Concrete Top Layer with bitumen @ 5%

P/L Saucer Drain along side of the road.

Footpaths / Side Pathways:

80 mm thick M30 precast I-shape paver blocks on shoulders

Kerb stones provided along road edges

Road Markings & Safety:

Thermoplastic road signage & markings

Integrated Road Drainage:

RCC roadside drains with adequate slope

Designed for self-cleansing velocity; cross-sections as per road width (7.5 m to 24 m)

Surface runoff discharged into trunk drains on Delhi Road-Manoharpur Road / Delhi Road

Provision for rainwater harvesting along major roads

2. Water Supply System

Potable water supplied through a network of DI / CI / PVC pipelines (250 mm to 80 mm dia.)

Water sourced from underground strata via tube wells near park areas

Rising main in K-9 Class pipes

Storage through Overhead Tanks (4 Nos.), each 250 KL capacity with 20 m staging height

Distribution network ensures adequate pressure for residential, mixed-use and commercial plots

One-day storage capacity maintained

Fire Hydrants along 12 m, 18 m and 24 m wide roads and major intersections

3. Sewerage System

Dedicated sewerage network using NP-2 class RCC pipes:

200 mm for house connections

250 mm, 300 mm, 450 mm and 600mm dia for higher flow zones

Pipes laid on proper concrete bedding with slopes ensuring self-cleansing velocity.

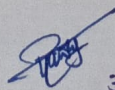
Sewer Manhole Size : 900mm, 1200mm and 1500mm dia.

Manholes:

900 mm × 800 mm rectangular for 200 mm lines

900-1500 mm dia circular for larger lines

Located at required intervals and junctions

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Minimum 1.0 m earth cover as per CPHEEO guidelines.
Sewage conveyed through gravity flow to central sump well.

STP Capacity:

1500 KLD (Phase-1) using MBBR technology
Total (Phase 1 + 2): 2000 KLD

MBBR Advantages:

Low power consumption
No sludge recirculation
High treatment efficiency
Small footprint (~1/10th of conventional systems)
Handles load variations effectively

4. Storm Water Drainage

RCC drains designed for efficient surface runoff from all plots and roads
Adequate longitudinal slope for quick discharge
Network of small drains connected to trunk drains
Final discharge into Delhi Road–Manoharpur Road drains / Delhi Road drains, ultimately flowing to Gangan River
Adequate number of Rainwater Harvesting Pits provided across the layout

5. Rain Water Harvesting:

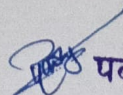
Runoff from the rooftops shall be collected in the individual recharge pits proposed in green area.
RWH pits in the parks and green area proposed to recharge the groundwater with storm runoff thereby improving the quality of the ground water.
Considerable green spaces will help the natural percolation of runoff into the ground.
7M x 3M Size 17 Nos. RWH Pits are proposed in the area.

6. Electrical Works

Underground electrical distribution network
132 kV Substation (12 MVA), approx. area for this is 1 acre for Phase-1 load
33 nos. 11/0.433KV substations shall be located in Respective pocket to limit voltage drop within acceptable limits.
Separate HT metering for commercial areas shall be provided due to differential tariff.
Street lighting with energy-efficient LED luminaires
Provision for individual domestic connections and future OFC/telecom utilities
RCC Electrical Trench Size: 600x600mm and 900x900mm Internal Size.

7. Parks & Green Areas

18 neighbourhood parks (600 sqm to 4500 sqm)
One Central Park / Sports Centre (~18,600 sqm)
Facilities in all parks:
Walking / jogging tracks
Tot lots (children's play areas)
Seating zones & shaded green pockets
Landscape development with native and ornamental species
Open fitness elements where feasible
Landscaping principles emphasize well-being, accessibility, sustainability and adaptability.


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8. Community Facilities

Land reserved for:

School

Healthcare

Commercial

Community buildings

Layout designed for safe pedestrian movement and barrier-free access.

9. Solid Waste Management

Door-to-door collection through public-private collaboration

Waste segregation at source encouraged

Community bins at designated locations

Daily transportation to disposal site through mechanized system

Regular street sweeping and drain cleaning by maintenance teams

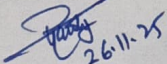
10. Other Infrastructure

Integrated signages for roads, plots and parks

Provision for future services such as telecom, fibre-optic ducts, etc.

Utility corridors planned for easy maintenance and expansion

Yours Faithfully


26.11.25

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