



मुरादाबाद विकास प्राधिकरण, मुरादाबाद।

पत्रांक: 1300 / मु0वि0प्रा0 / अभियंत्रण खण्ड / 2025-26

दिनांक: 7 / 3 / 2026

SONAKPUR CONSTRUCTION WORK SPECIFICATIONS

1. Roads & Pavements

Proposed road hierarchy: 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 18m)

Surface runoff discharged into existing trunk drains along the Sonakpur Flyover/24.00-meter-wide 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 and 18 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

Minimum 1.0 m earth cover as per CPHEEO guidelines.

Sewage conveyed through gravity flow to central sump well.


पंकज पाण्डेय
अधिसासी अभियन्ता (दिलीप)

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 existing trunk drains along the Sonakpur Flyover/24.00-meter-wide 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.

8. Community Facilities

Land reserved for:


School

Healthcare

Commercial

Community buildings

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



पंकज पाण्डेय
अधिसासी अभियन्ता (द्वितीय)

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


पंकज पाण्डेय
सूचनाशास्त्री अभियन्ता (द्वितीय)

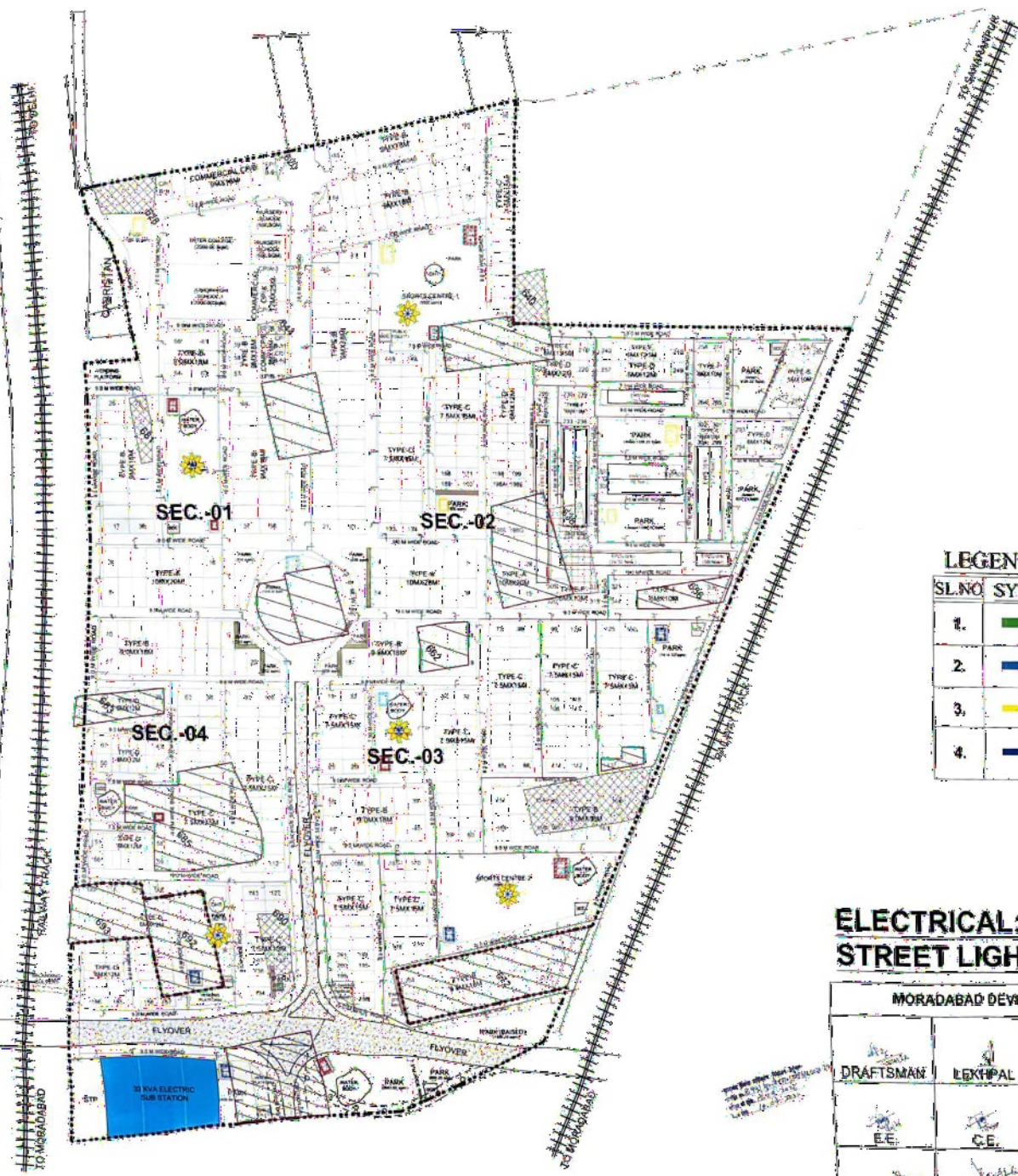
LEGENDS

- COMMERCIAL
- RESIDENTIAL
- TYPE-A (10MX20M)
- TYPE-B (9MX18M)
- TYPE-C (7.5MX15M)
- TYPE-D (8MX12M)
- TYPE-E (6MX13.5M)
- TYPE-F (5MX16M)
- TYPE-G (5MX10M)
- EXISTING POCKETS
- FACILITIES
- GREEN AREA
- WATERBODY
- VENDING PLATFORM
- AREA FOR FUTURE USE

- NOTES:**
- PLOT SIZES MENTIONED IN DRAWINGS ARE STANDARD SIZES EXCEPT CORNER PLOTS, WHICH WILL BE MEASURED AS PER SITE.
 - IN EXECUTION THE AREA DIMENSIONS MAY VARY AT SITE.

- SCHEMATIC SYMBOLS:**
- EXISTING LANE WHICH IS TO BE DELETED
 - EXISTING LANE TO BE CONVERTED INTO PARKING OR OTHER USE
 - EXISTING ROAD FOR DEVELOPMENT

POCKET-B



LEGENDS

SL.NO	SYMBOL	DESCRIPTION	R	Y	B	
1.		110 WATT STREET LIGHT	114	46	43	25
2.		100 WATT STREET LIGHT	208	82	78	48
3.		60 WATT STREET LIGHT	18	6	4	8
4.		40 WATT STREET LIGHT	147	61	54	32

**ELECTRICAL:
STREET LIGHT & TRANSFORMER LAYOUT**

MORADABAD DEVELOPMENT AUTHORITY

DRAFTSMAN 	LEXH/PAL 	J.E. 	A.E. 	PROPOSED LAYOUT OF 'SAHYADRI PKT A' SCHEME AT VILLAGE SONAKPUR, MORADABAD (M.P.)
E.E. 	C.E. 	A.T.P. 	T.P. 	
C.T.P./C.P. 	O.S.G. 	SECRETARY 	V.C. 	

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- SCHEME BOUNDARY
- CEILING LAND WHICH IS AFFECTED BY STAY ORDER ETC.
- CEILING LAND OF WHICH WRIT PETITION UNDER CONSIDERATION
- LAND PROPOSED FOR SAMAYOJAN

POCKET-B



LEGENDS

SL.NO	SYMBOL	DESCRIPTION	SLOPE
1.		300 Ø PIPE	1:200
2.		450 Ø PIPE	1:250
3.		600 Ø PIPE	1:450

SEWERAGE LAYOUT

MORADABAD DEVELOPMENT AUTHORITY			
DRAFTSMAN	LEKHPAL	J.E.	A.E.
E.E.	C.E.	A.T.P.	T.P.
C.T.P./C.P.	LAND ACQUISITION	SECRETARY	V.C.

PROPOSED LAYOUT OF 'SAHYADRI PKT A' SCHEME AT VILLAGE SONAKPUR, MORADABAD (U.P.)

NORTH

SCALE

174, BANARASPUR, MORADABAD

www.dma.org.in
 Phone: 0591-2610000
 0591-2610001
 0591-2610002
 0591-2610003

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POCKET-B



LEGENDS















SL.NO	SYMBOL	DESCRIPTION
1.		300 Ø PIPE
2.		450 Ø PIPE
3.		600 Ø PIPE

STORM WATER DRAINAGE LAYOUT





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E.E.	C.E.	A.T.P.	T.P.	
C.T.P./C.P.	O.S.D.	SECRETARY	V.C.	 M.A. Logo 214, MANAKPUR, Sahibpur-241212

Date: 15.08.2018
 No: 100/2018/2018/2018/2018
 100/2018/2018/2018/2018
 100/2018/2018/2018/2018

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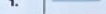


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POCKET-B



LEGENDS

SL.NO	SYMBOL	DESCRIPTION
1.		160MM OD PVC PIPE
2.		110MM OD PVC PIPE
3.		15MM OD PVC PIPE
4.		VALVE CHAMBER

WATER SUPPLY LAYOUT

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