

COMPETENT BUILDERS AND DEVELOPERS

Reg Office: POST PAC, NARIYAWAL, BAREILLY, UTTAR PRADESH 243123

PROJECT SPECIFICATION IN RESPECT OF THE PROJECT

INTERNATIONAL CITY NORTHERN COUNTY

1) Boundary wall –

- I. Height: Typically 6 feet 1.8 meters high, length of wall aprox 400 running mtr.
- II. Material: brick Masonry work with 1:6 mortar (cement:sand)
- III. Thickness: 9 inches (23 cm) thick
- IV. Foundation: Deep foundation or shallow foundation depending on soil conditions and pile foundation as per requirement 230 MM dia and 4 mtr deep
- V. Coloumn: Spaced at regular intervals (about 10-12 feet) to support the wall (RCC work m20 mix, pcc used 1:4:8 ratio)
- VI. Top: Flat, curved, or sloping top with optional decorative features
- VII. Security features: Barbed wire or concertina wire,

2) Bitumen road specifications for a colony typically include:

- I. Road width: 9-12 meters and road area 9334 Sq Mtr
- II. Base thickness: Top 150-200 mm (6-8 inches)
- III. Top 50-60 MM thick Bitumen mix
- IV. Aggregate size: 10-20 mm (0.5-1 inch)
- iv. Sand: Zone II or III
- v. Compaction: 90-95% Proctor density
- vi. Black top of road 5.75 Mtr wide and balance for services like water, sewer, drain, and electrical work

3) Drainage System

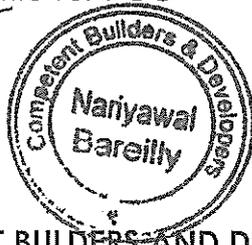
- i- 400 MM wide Drain aprox 1200 MM mtr length
- ii- constructed with brick work and plaster inside with cement need finish.
- iii- 1:4:8 ratio for PCC

For

(BIPIN KUMAR)

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iv- Covered with RCC m20 Slab on the road crossing.

4). Foot path –

Here are some common specifications for footpath pavement:

- I. Material:
 - Interlocking Pavers
- II. Thickness:
 - Pavers: 60-80 mm (2.5-3 inches) thick pavers on a 50-75 mm (2-3 inches) thick sand bed
- III. Mix Design:
 - Pavers: No specific mix design, but pavers should meet IS (Indian Standard) specifications
- IV. Sand:
 - Pavers: Zone II or III sand for the sand bed
- V. Cement:
 - Pavers: N/A (pavers are manufactured with cement)
- VI. Finishing:
 - Pavers: Laying pavers with a 5-10 mm (0.2-0.4 inch) gap for sand fillin

VII- Area in project 335 Square Mtr

5) Sewer Line System

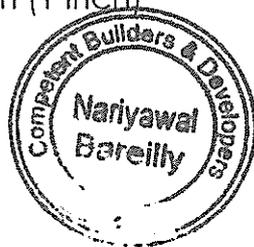
- I. Material: PVC (Polyvinyl Chloride)
- II. Size: 200 mm to 300 mm, arprox length of sewer line 1200 Mtr
- III. Thickness:
 - 2.5 mm (0.1 inch) for 100 mm to 200 mm diameter pipes
 - 3.5 mm (0.14 inch) for 250 mm to 400 mm diameter pipes
- IV. Corrugation:
 - Pitch: 25 mm (1 inch)

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- Depth: 10 mm (0.4 inch)
- 5. Coupling: Rubber ring or PVC coupler
- 6. Jointing: Push-fit or solvent cement jointing
- 8. Color: Black or dark gray
- 9. Standards: ISI 14930:2000 or ASTM F894
- 10. Main Hole for each house for approx 1.2 Mtr Deep made with bricks.

6) Parks –

I. Site Preparation

- Clearing and grubbing of existing vegetation, debris, and obstacles
- Grading and leveling of the land to achieve a even surface
- Compaction of soil to create a stable base
- Green Area 4768 Sq Mtr in the project

II. Landscape Features

- Grass lawns with a mix of shaded and sunny areas
- Flower beds with seasonal flowers and shrubs
- Trees (minimum 10-15 nos.) with a mix of deciduous and evergreen species
- Hedges and borders to define different areas within the park

III. Infrastructure

- Walkways and pathways (minimum 1.5 meters wide) made of concrete, asphalt, or pavers
- Seating areas with benches and pergolas
- Lighting (minimum 10-12 nos.) with a combination of high-mast and bollard lights
- Water supply and drainage system for irrigation and other purposes

IV. Amenities

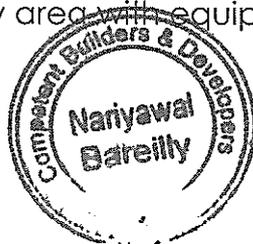
- Children's play area with equipment like swings, slides, and seesaws

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- Open gym or fitness station with equipment like parallel bars, leg press, and chest press
- Multipurpose court for games like basketball, badminton, and tennis
- Community garden or green space for residents to grow their own herbs and vegetables

V. Safety and Security

- Boundary wall or fencing to define the park's perimeter
- Gates with secure locking systems and access control
- CCTV cameras at strategic locations
- Emergency response plan and first aid kit

VI. Sustainability

- Rainwater harvesting system to collect and store rainwater for irrigation
- Solar-powered lighting and other sustainable energy solutions
- Waste management system with recycling facilities
- Use of drought-resistant plants and efficient irrigation systems

7) Lighting poles

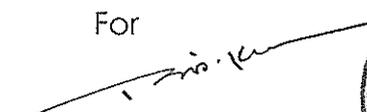
I. General Requirements

- Material: M. S. Pipes Pole
- Height: 4-5 meters
- Color: Black, gray, or silver

II. Electrical Specifications

- Voltage: 230V AC, 50Hz
- Power consumption: 50-200W
- Lumen output: 5000-15000 lumens
- Light source: LED, HPS, or MH

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III. Optics and Photometrics

- Beam angle: 120-180 degrees
- Distribution: Symmetrical or asymmetrical
- Illuminance: 10-50 lux
- Uniformity: 0.5-1.5

IV. Pole and Bracket Specifications

- Pole diameter: 60-150 mm (2.5-6 inches)
- Bracket type: Single, double, or triple arm
- Bracket finish: Powder coated or hot dip galvanized

V. Safety Features

- Lightning protection: Surge arresters and earthing
- Overheat protection: Thermal cut-offs or current limiting devices
- Vibration resistance: Anti-vibration mounts or dampers

VI. Environmental Considerations

- Wind resistance: Up to 180 km/h (110 mph)
- Corrosion resistance: Hot dip galvanized or powder coated
- UV resistance: UV-stabilized materials

VII. Installation and Maintenance

- Foundation: Concrete or direct burial
- Mounting: Flange
- Maintenance access: Easy access for lamp replacement and maintenance

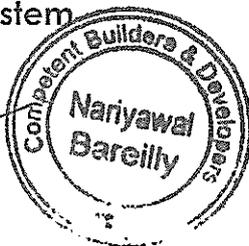
8) Water system

For

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I. Water Source

- Connection to municipal water supply or borewell
- Water treatment plant (if required)

II. Storage

- Overhead water tank: 50,000-100,000 liters
- Material: RCC, steel

III. Distribution

- Pipe material: CI, PVC,
- Pipe size: 65-100 mm 6 KG pressure
- Distribution network: Gravity-fed or pumped
- Valves and fittings: ISI-marked

IV. Water Treatment

- Water filtration: Sand, carbon, and membrane filters
- Water purification: Chlorination, UV, or RO systems
- Water testing: Regular testing for pH, turbidity, and bacterial contaminants

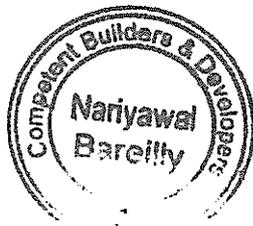
V. Pumps and Motors

- Centrifugal pumps or submersible pumps
- Motor power: 1-5 HP
- Material: Stainless steel or cast iron

VI. Electrical Controls

- Control panel: PLC or relay-based
- Sensors: Level, pressure, and flow sensors
- Electrical protection: MCB, RCCB, and ELCB

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VII. Safety Features

- Water overflow alarm and shut-off system
- Electrical shock protection
- Fire-resistant materials

VIII. Maintenance and Upkeep

- Regular cleaning and maintenance of tanks and pipes
- Periodic testing and calibration of equipment
- Annual budget allocation for maintenance and upgrades

IX. Certifications and Compliance

- ISI or equivalent certification
- Compliance with local regulations and standards

X. Additional Features

- Water metering and billing system
- Leak detection and repair system
- Water conservation measures (e.g., rainwater harvesting)

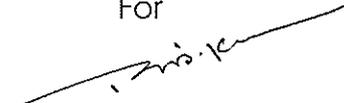
9) Garbage maintenance System

Garbage Area 90 Sq Mtr as per Map with shade facility and CC flooring.

10) Sewerage Treatment Plant

STP Provision in project 200 KLD.

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