

KGK DIAMONDS

Architectural Design for a Diamond Processing Factory and Office

Client: M/s Alok Impex

Site Location: 'KGK Diamonds', Karanj, Kodiyar

Nagar, Surat, Gujarat- 395008

Plot Size: 76,120 sq ft / 7,070 sq m Construction Area: 2,60,000 sq ft / 24,154 sq m

Cost of Project: Confidential

Year of Completion: 2016

Services:

Architectural Planning,

Interior Design, Landscape, MEP Integration, Art Integration

Firms Involved: EssTeam, Oblique





THE PROJECT:

The client is one of the global leading firms in diamond processing and finishing. Their unique vertically integrated business is spread in retail, marking their invincible presence across the pipeline of the gems and jewelry industry and translating it into a value chain offering considerable competitive advantages.



THE SITE:

The site is located in an industrial area in the city of Surat amidst many large sized diamond factories. It is a plot with 7,070 sq m area with an access road towards the South and low-rise structures towards North.



	01. monumentality	
	O2. SPATIAL FLEXIBILITY	
	03. WELL RESOLVED SERVICES	
	O4. LANDSCAPE	
DESIGN INTENT		essteam



The factory intends to portray monumentality through its grand scale with columns and rising landscape beneath- to raise it, as if on a green pedestal to give the building the royal aesthetics it deserves.

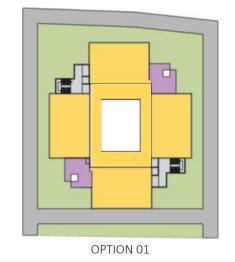


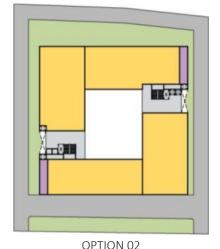


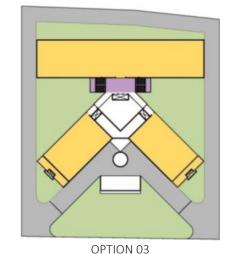


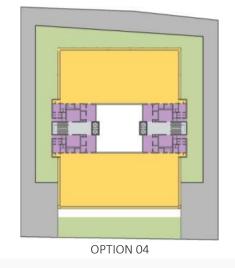
The building is encompassed in form finish concrete giving it a strong character having the front face covered with untreated cor10 steel facade. With the value to use only Indian natural stones in the building uplifts the ethnic space quality and feel with the contrast of contemporary minimal forms for the exteriors as well as the interiors.

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PROS:

- Building would appear less massive because of freeing- up the corners.

- Minimum circulation areas.
- 2 large Production halls of about 9000 sq ft each on each floor.
- Outer landscape area.
- Grand entrance with ramp from ground to first floor.
- Service at the edge of each flange.
- Minimum ground coverage.

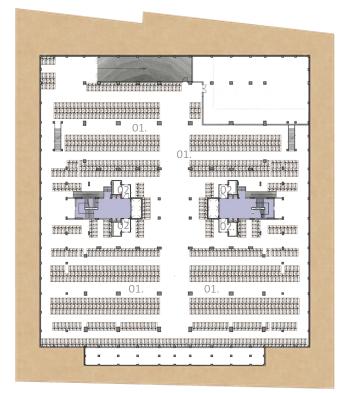
- Minimum circulation areas.
- 2 large Production halls of about 10000 sq ft each on each floor offering maximum flexibility of planning.

CONS:

- Individual production halls reduces the flexibility of usage.
- Excess circulation areas.

- L shaped halls are difficult to use for diamond processes.
- -Need to provide 4 fire staircases.
- -Very little flexibility.
- -Circulation between halls would be cumbersome.





01. Two-wheeler Parking 02. Electrical Room





UPPER BASEMENT PLAN

01. Car parking

02. Two-wheeler parking

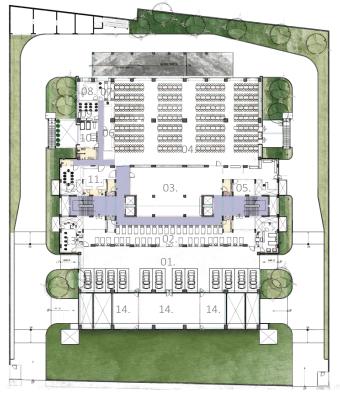
03. Electrical room



LOWER BASEMENT PLAN

Lower basement floor has parking facility for twowheelers.

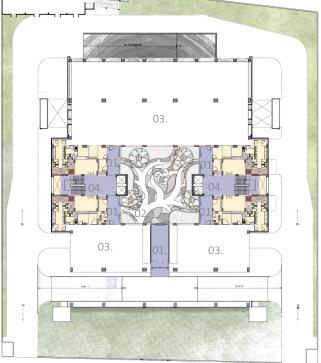
Upper basement floor has parking facility for two-wheelers as well as four wheelers.



- 01. Executive Car Parking
- 02. Dormitory Room
- 03. Kitchen
- 04. Dining Hall
- 05. Wash Area
- 06. Central Storage
- 07. Medical Room
- 08. Creche
- 09. Library
- 10. Gymnasium
- 11. Hand wash & Toilets
- 12. Executive Dining Area
- 13. BMS Department
- 14. Store

GROUNDFLOORPLAN





04. Service Core

0 2.5 7.5 15

01. Entrance Passage

02. Waiting Area

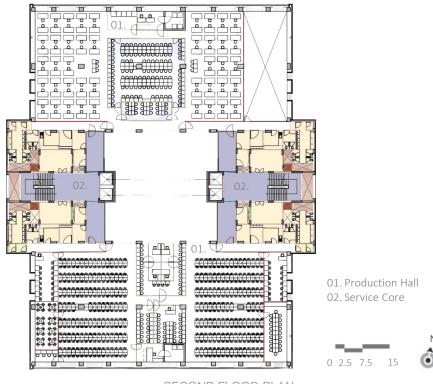
03. Production Hall



Ground Floor has a dormitory room for staff with dining area and Kitchen. A gymnasium, library and medical room is provided for the staff. Toilets, bathing area and electrical rooms are provided in service core of this floor.

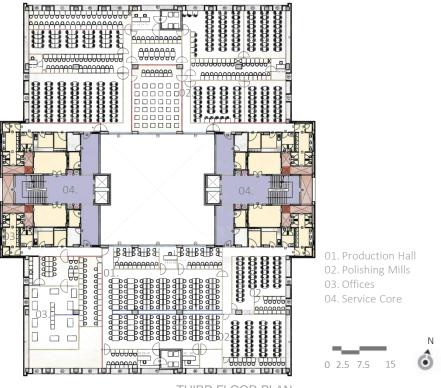
Entrance for visitors is provided on this floor with waiting area and production hall. Service core on this floor has toilets and electrical room.





SECOND FLOOR PLAN

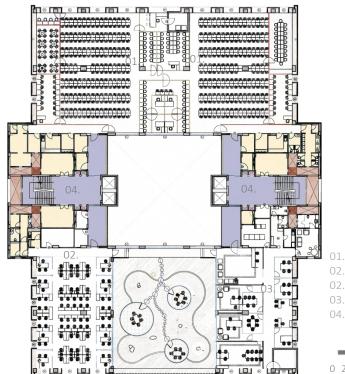
This floor has production hall where Laser- sawing and Polishing takes place. Service core on this floor has toilets and electrical room.



THIRD FLOOR PLAN

The third floor too has production hall where Laser - sawing and Polishing takes place. Service core on this floor has toilets and electrical room.





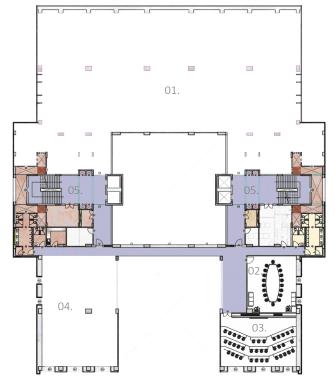
- 01. Production Hall
- 02. Administration department
- 02. Polishing Mills
- 03. Offices
- 04. Service Core





FOURTH FLOOR PLAN

This floor has production hall where Laser- sawing and Polishing takes place. Administration department and office spaces and a production hall is also a part of this floor. Service core on this floor has toilets and electrical room.



FIFTH FLOOR PLAN

The fifth floor is partially covered by terrace. The other areas of this floor has a Conference room, Auditorium and a hall for miscellaneous purpose. Service Core on this floor has toilets and electrical room.

01. Terrace

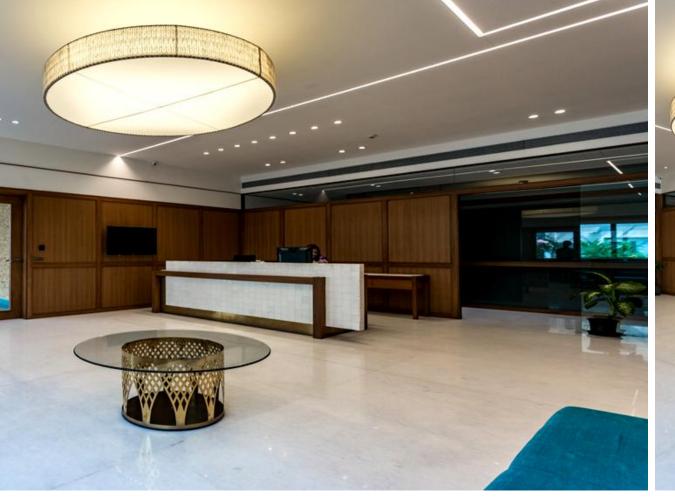
02. Conference Room

03. Auditorium

04. Future Hall

05. Service Core

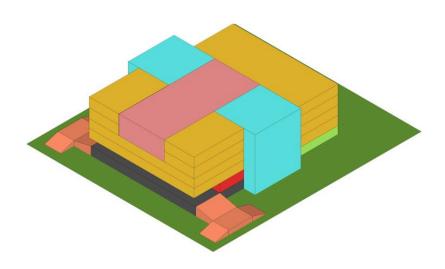
0 2.5 7.5 15



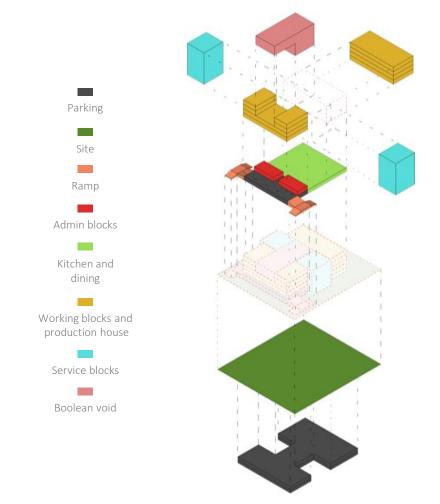








Over 80,000 square feet of Production Area is obtained in this design with minimum circulation. Around seven clear rectangular halls offer wonderful flexibility to accommodate the changing dynamics of the diamond processing business. The services are well resolved and placed on the two ends to not hinder any crucial spaces of the factory. The exploded three- dimensional diagram shows the division of spaces planned exactly in accordance to the requirements of the factory.







SECTION THROUGH ATRIUM







A green Atrium in the centre of the building provides natural light and ventilation to every working space surrounding it. The landscape is let to flow from outside to the inner space of the atrium and then to the executive floor courtyard, symbolically connecting all the space giving the people a somewhat natural environment.





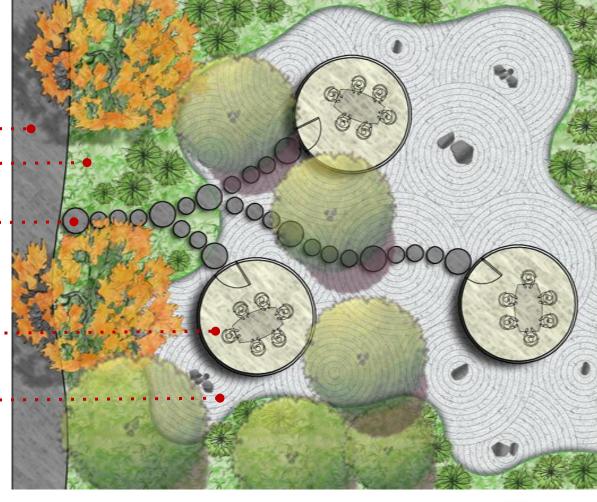
Shrub bed • •

Stepping stones • • •



Discussion rooms • •

Gravel landscape • •



04. LANDSCAPE

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The proposed artwork on this wall intends to serve the purpose of being conceptually in continuation of the ambience of the atrium itself, as well as be an element which connects the 'gardens' of the ground floor with that on the fourth floor. For this, we have envisaged creating a huge and colorful abstract mango tree on this wall.



The mango tree is one of the most popular trees in India since centuries. The leaves of the mango are auspicious for Hindus, and are hung across doorways for any special occasion and in temples. Sanskrit Poetry tends to celebrate the fragrant mango flower more than the fruit or than the leaves and as a result it is vasanta (spring) not grima (summer) that is the season of the mango. Vasanta starts as the mango tree puts forth buds and sprouts which gradually turn in to a blossom as the season reaches its height. The Mango tree was considered to be the essence of the spring season. The Mango tree attracts several different kinds of birds and insects towards it too, creating its own ecosystem. Through this mural we wish to recreate the association with being under the sprawling foliages of mango trees in orchard – with all the accompanying birds, bees, insects etc. and with the lovely golden mangoes too. In addition to several small colorful birds, we intend to make one glorious on one of the lower branches of the tree. On the whole, when one would look at the mural, it would look like a live, vibrant, colorful tree where one can almost hear the chirping of the birds, and get the sweet fragrance of the mangoes!



The proposed mural would be made out the laser-cut Mild steel or Aluminum sheets with paint or powder-coating respectively. It would be made in 4 to 5 different layers giving it a depth from the wall on which it is mount. The basic tree with all its branches would form one layer, while the foliage made with the leaves having intricate laser cutting and the golden mango fruits would be made in 2-3 different layers. Then a further layer would include the colorful birds on the tree. We also intend to suspend 2-3 from ceiling such that it gives an impression as if they are flying toward the tree.





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