

Precision Automation & Robotics India Limited

World Class Automation & Robotic Technology

Making Manufacturing Smarter, Faster & Safer

PARI in a Nutshell

- ❑ Incorporated in 1990.
- ❑ Global Turnkey Automation Supplier with Sales in Asia, US & Europe
- ❑ US Operation since 2001
- ❑ Over 100 Turn-key lines and over 1400 Automated Solutions Successfully Deployed
- ❑ ISO 9001-2009 Certified



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PARI Value Proposition

- Large Global Organization with Automation expertise
- Cost Competitive Turn-key solutions
- Global Support Organization,
- Compliance with Global regulations & standards
- Rapidly growing business with Global Markets.

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PARI FACILITY AND TEAM...



AUTOMATION CITY

- 200,000 SQ. FT. MANUFACTURING FACILITIES
- 200,000 SQ. FT. MACHINE SHOP
- 75,000 SQ. FT OFFICES
- 25,000 SQ. FT. OF DEVELOPMENT & LAB FACILITIES



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PARI Infrastructure...

Automation City

- **In-house machine building & System Testing**
- **Manufacturing facilities – total 4,00,000 sq. ft.**
- **QA systems with QC facilities like CMM & Standards Room**
- **Field Support Offices:**
 - Delhi (Gurgaon & Noida), Haridwar, Chennai, Bangaluru, Ahmedabad, Pune, Baramati etc.**
- **PARI Robotics Inc.**
 - **2930 Technology Dr. Rochester Hills, MI 48309. USA.**



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PARI Automation City



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PARI USA Facility



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PARI – Industrial Application Sectors.

Over 20 years of dedicated service to the automobile market, PARI is moving ahead to penetrate the wide application areas. The variety of market segments where the challenges are more.

Market Segments:

- Automotive,
- Automated Car Parking & ASRS,
- Steel & metal Industries,
- Wind Mill and Solar power sector,
- FMCG,
- Paper and Pulp,
- White goods and electronics,
- Machine tools – OEM's,
- Engineering Industry,
- Textile – Turn Key Material Handling & Storage
- Cement & Tiles – Manufacturing Machinery.

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PARI **A**utomatic **C**ar **P**arking **S**ystems

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PARI – Automatic Car Parking Systems



PARI TVC 2
KIDS 20 sec
Yogi's Creation

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PARI Domain Expertise In Car Parking



PARI offering in Automated Car Parking-

- **2 Step Stacker,**
- **Puzzle Parking,**
- **Stacker Crane Parking,**
- **CART Parking,**
- **Level Parking,**
- **Tower Parking,**
- **Chess Parking,**
- **Two Wheeler Parking,**

The above parking systems are suitable for:

Residential complexes, Commercial Complexes, IT parks, Malls, Hotels, Public Parking areas.

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Semi Automatic Parking Systems

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2 Step Electromechanical Simple Stacker Parking

PARI Domain Expertise In Car Parking



Salient Features:

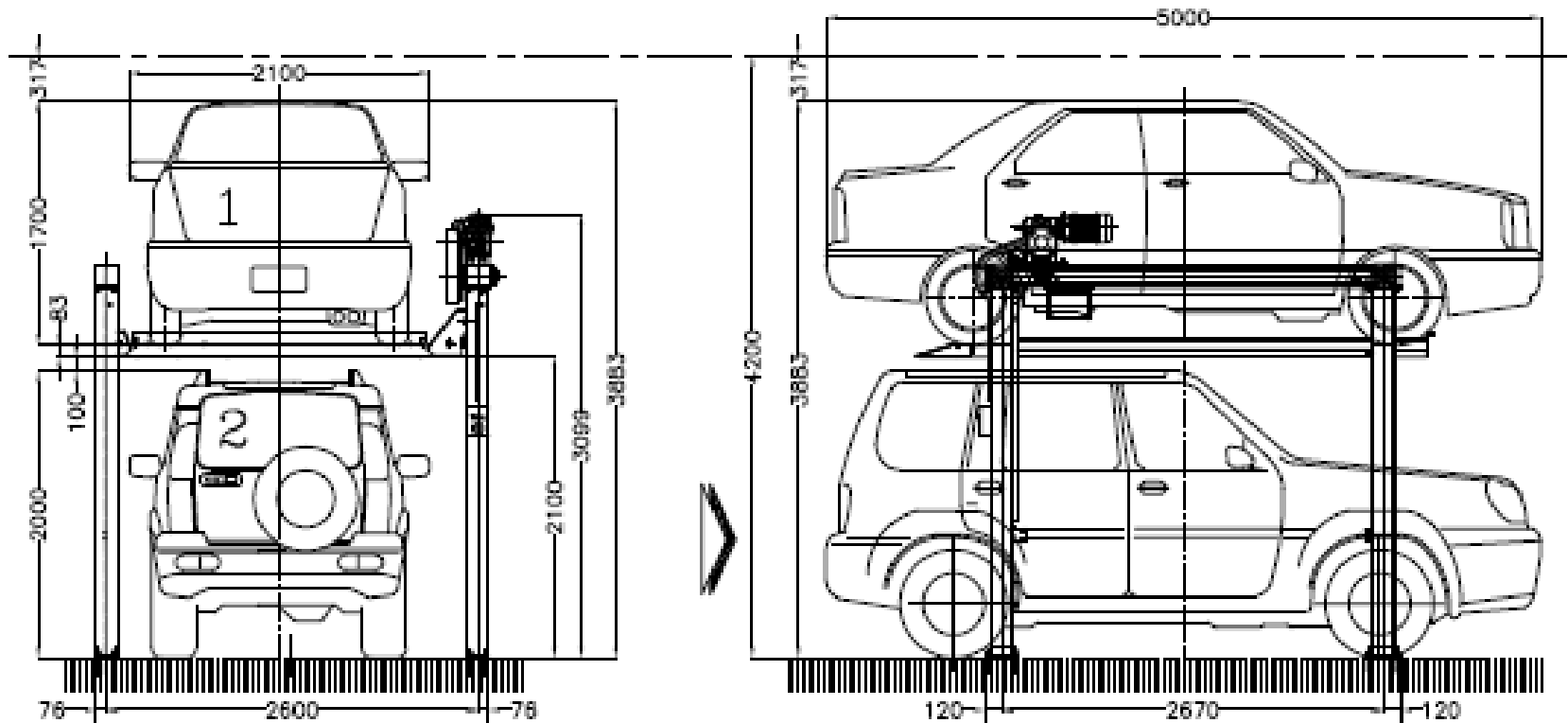
- **Dependent Parking System.**
- **Electromechanically (Motorized) Operated.**
- **2 Cars parked at place of 1 car park.**
- **Secure System – Vehicle Present Sensor for Bottom Car.**
- **Simple Turn Key Operation.**
- **Possibility of SUV + Sedan, Sedan + Sedan & SUV + SUV Combination.**

System Can be custom designed as per client's requirements.

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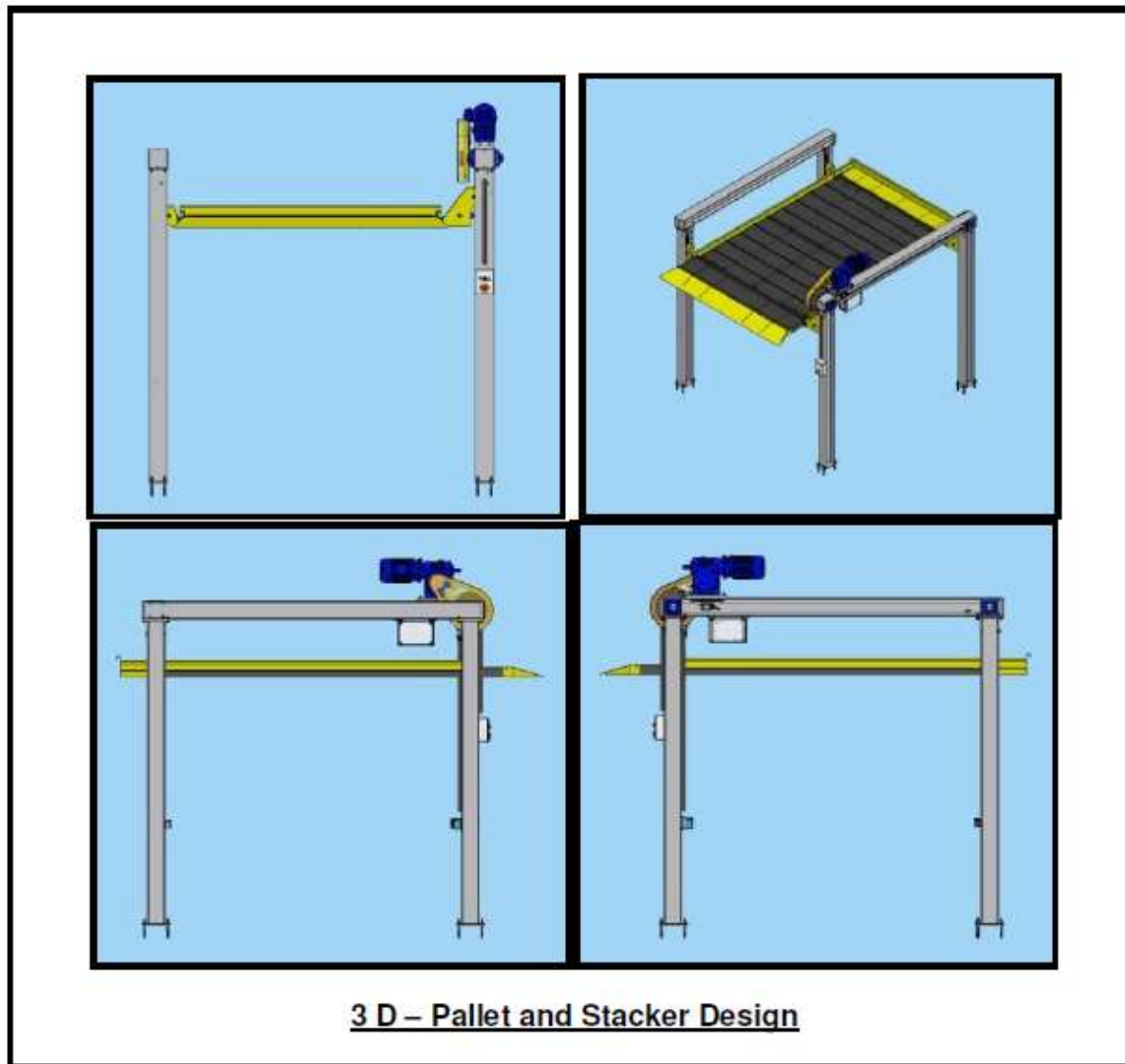
2 Step EM Simple Stacker Parking



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2 Step EM Simple Stacker Parking



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2 Step EM Simple Stacker Parking Video



World Class Automation & Robotic Technology

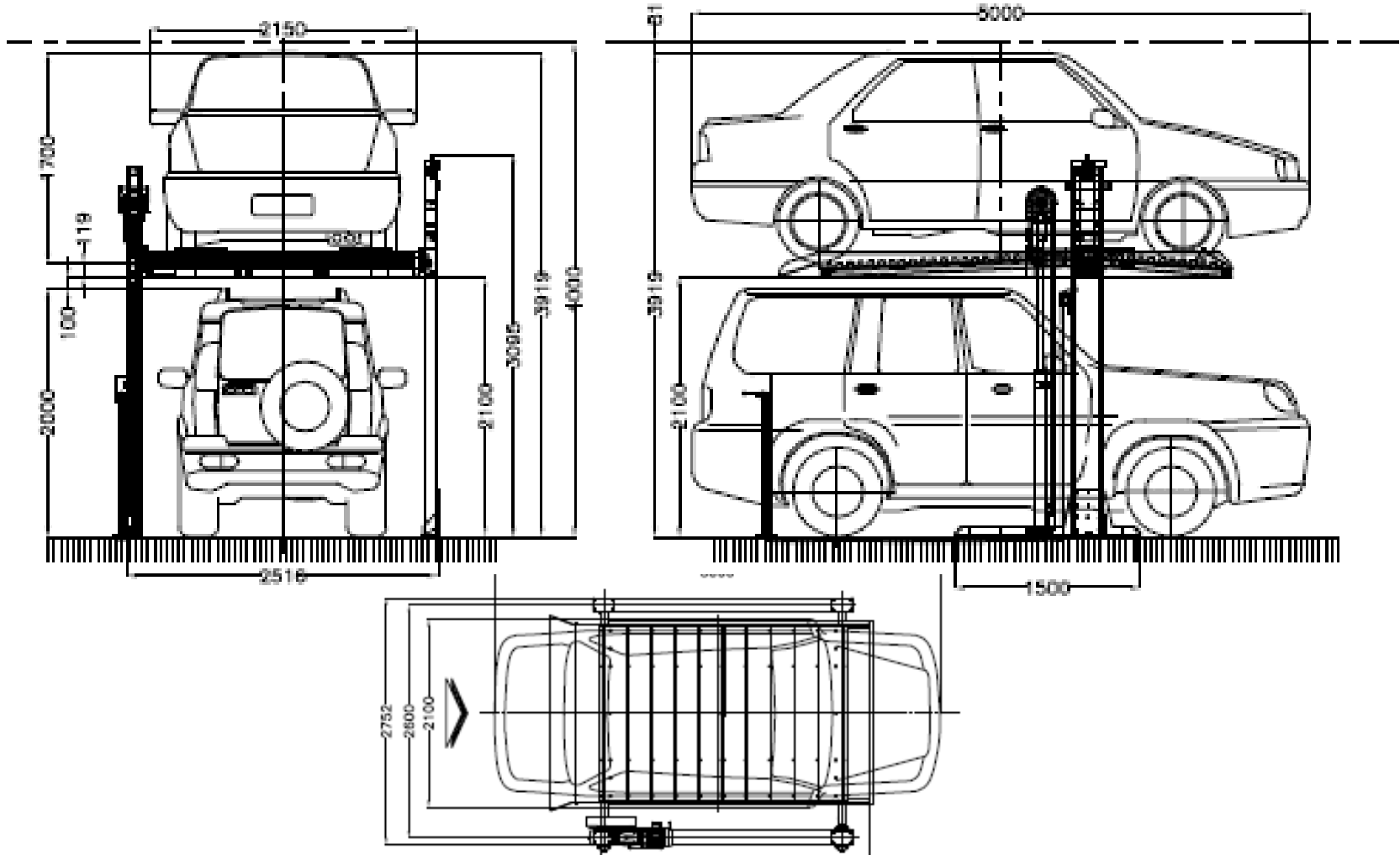
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2 Step Hydraulic Simple Stacker Parking

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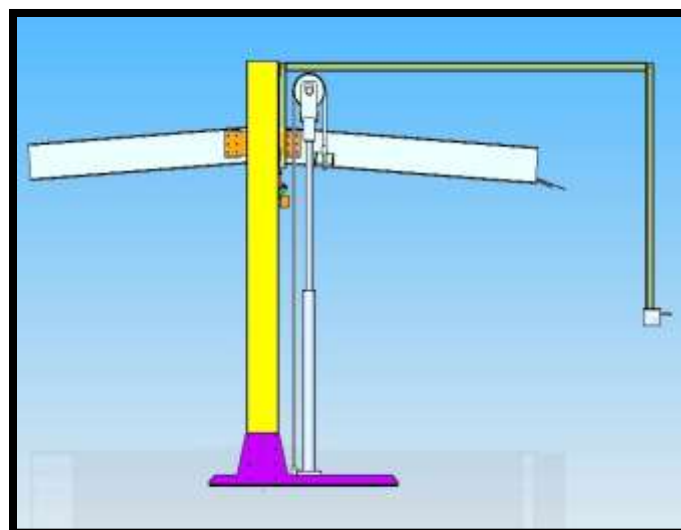
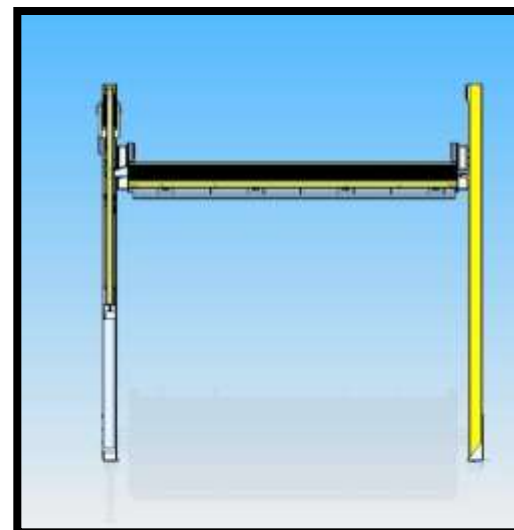
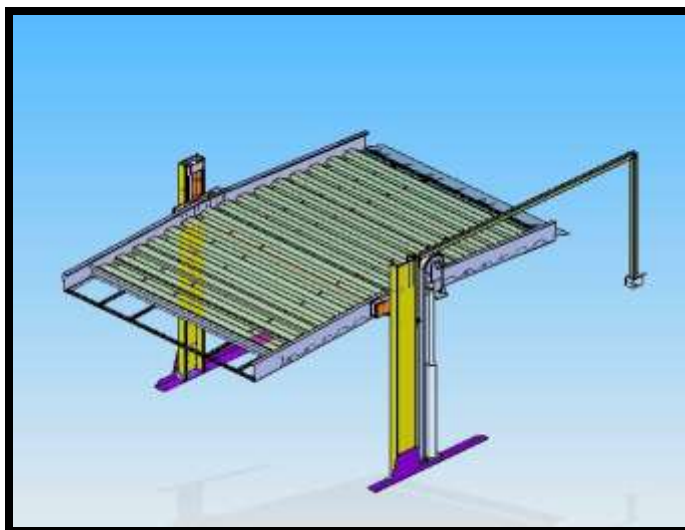
2 Step Hydraulic Simple Stacker Parking



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2 Step Hydraulic Simple Stacker Parking



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2 Step HYD. Simple Stacker Parking Video



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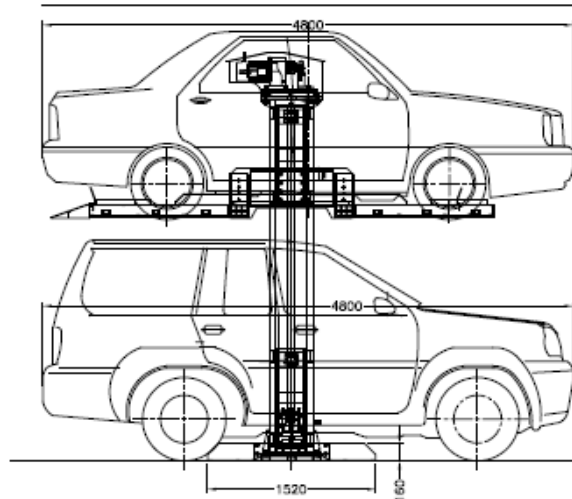
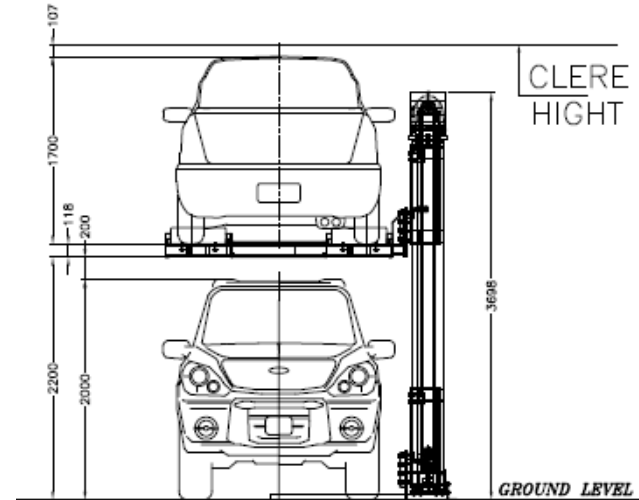
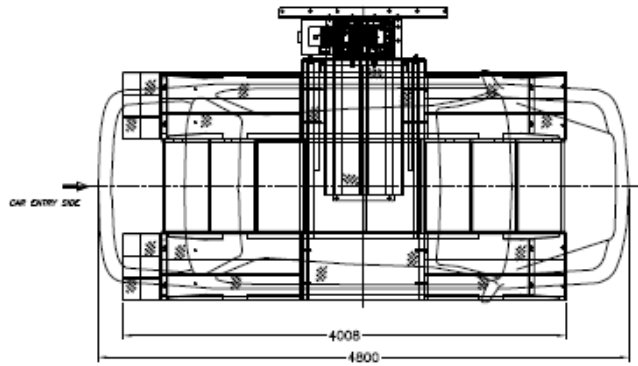
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2 Step Electromechanical Cantilever Stacker Parking

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2 Level EM Cantilever Stacker



- **Dependent Parking System.**
- **Electromechanically (Motorized) Operated.**
- **2 Cars parked at place of 1 car park.**
- **Widely used in the Driveways to use the space to add one more car park.**
- **Simple Turn Key Operation**

System Can be custom designed as per client's requirements.

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2 Level Cantilever Stacker Video



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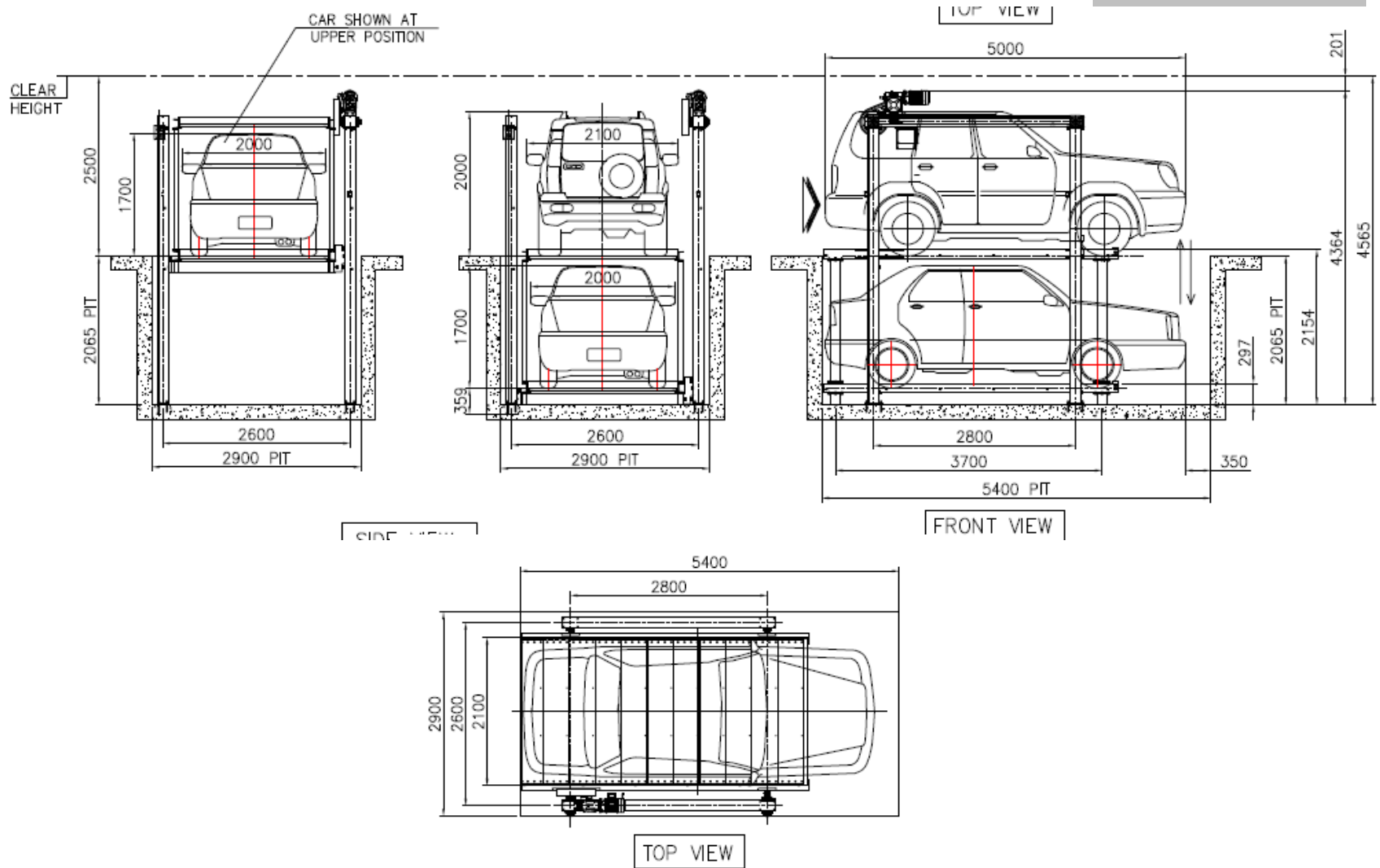
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2 Step Electromechanical Dependent Pit Stacker Parking

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2 Level EM Dependent Pit Stacker

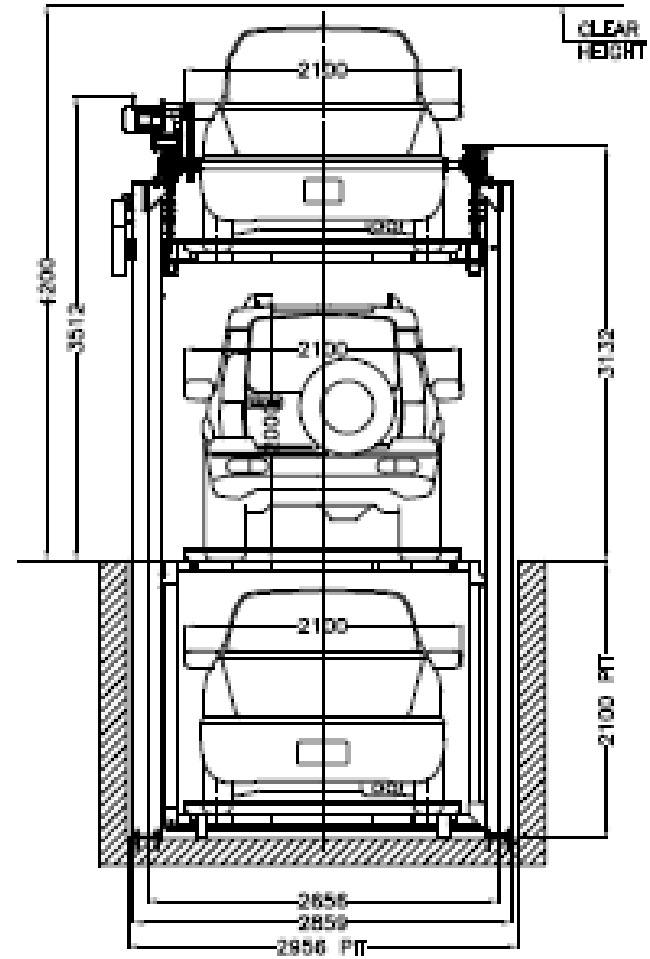
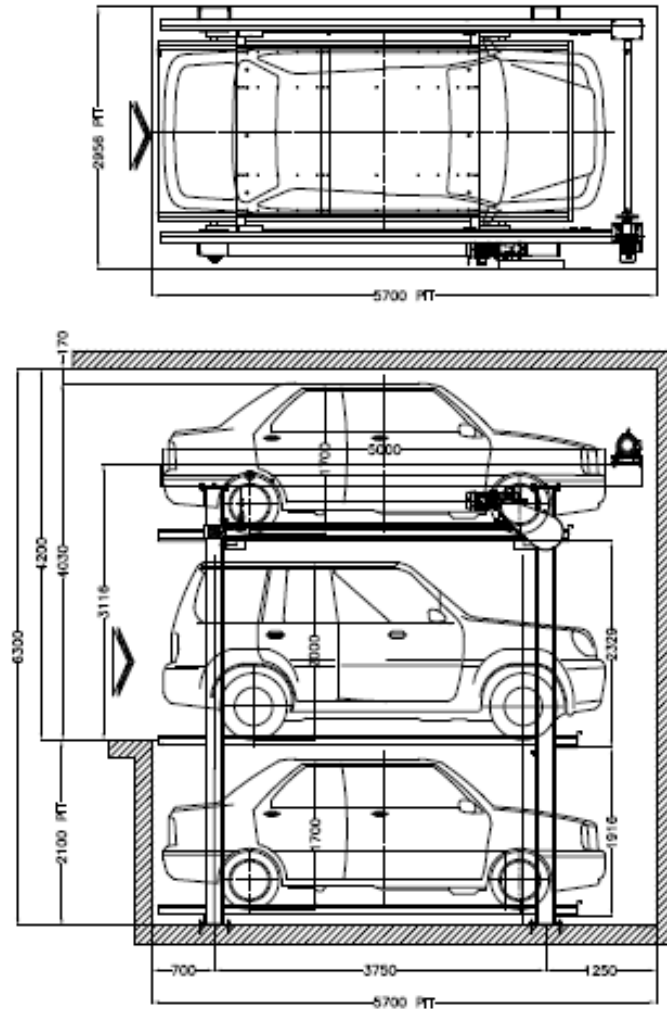


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3 Level Electromechanical Dependent Pit Stacker Parking

3 Level EM Dependent Pit Stacker

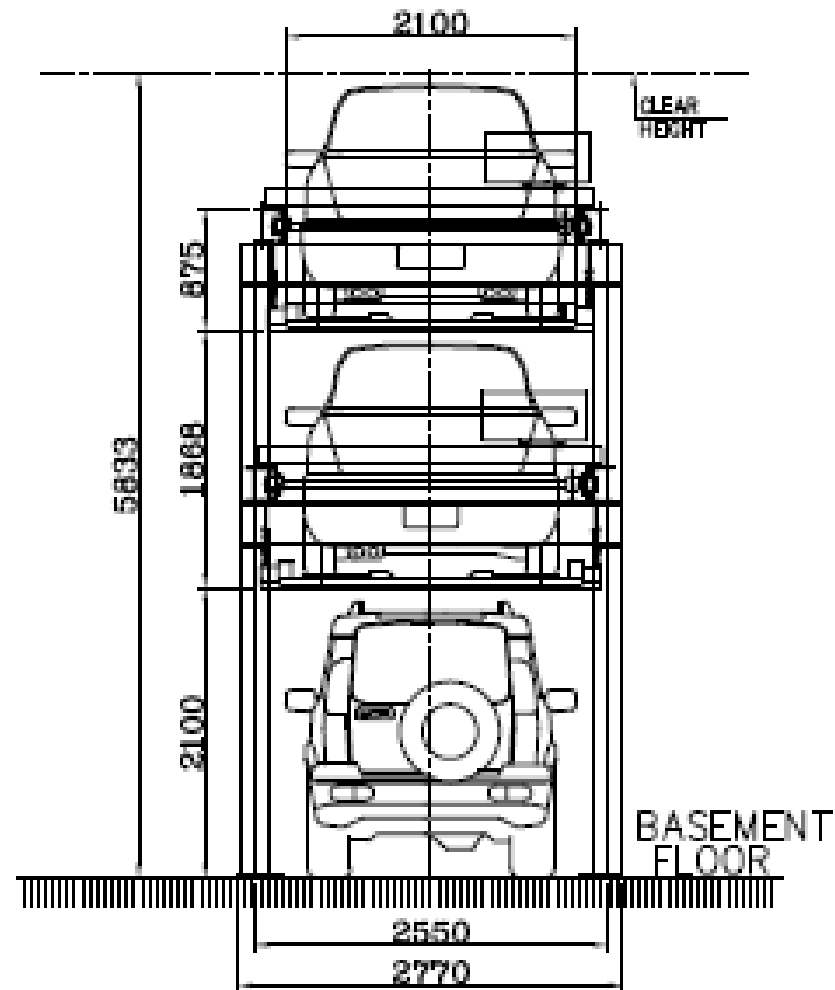


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3 Level Electromechanical Dependent Ground Stacker Parking

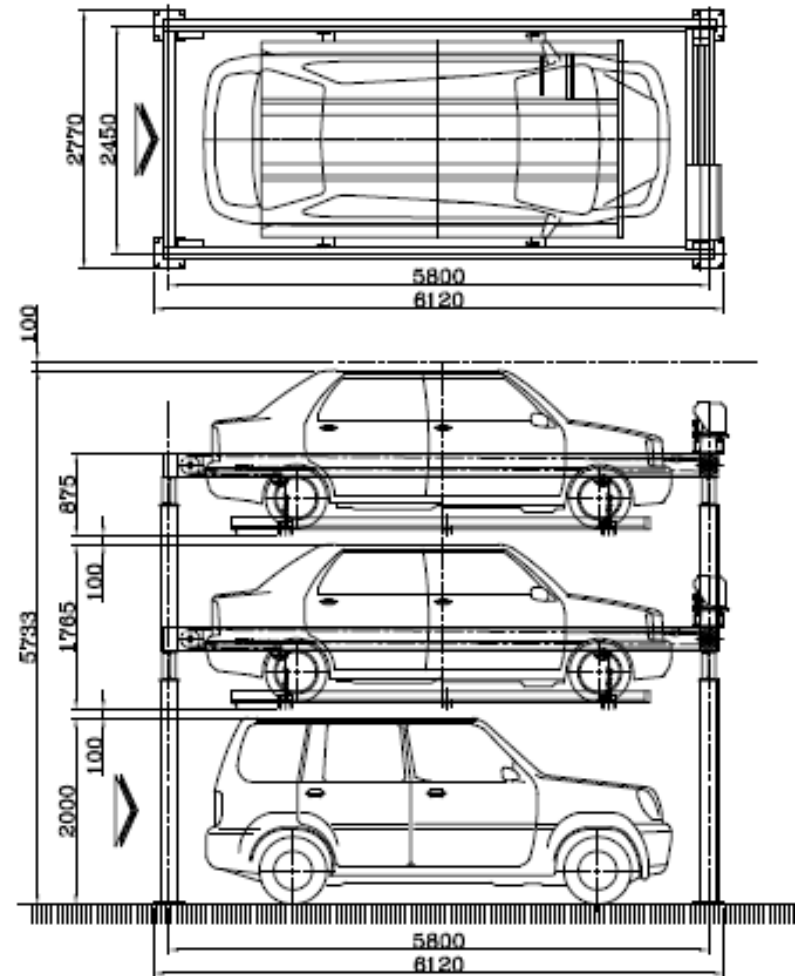
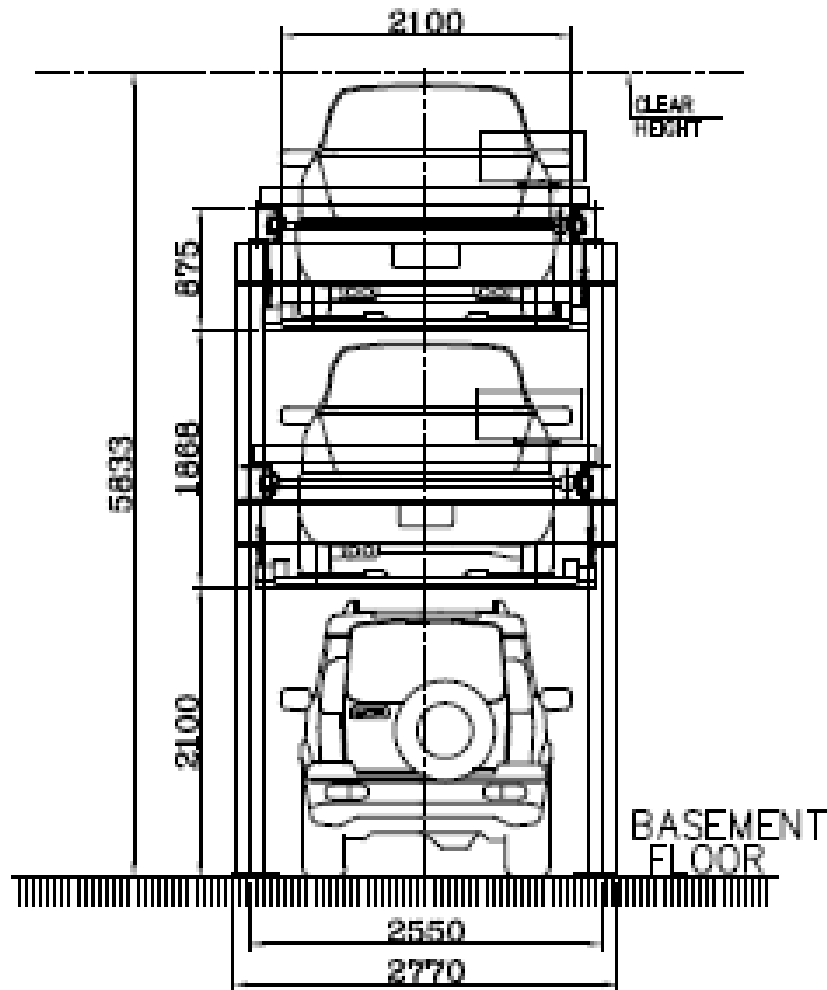
3 Level EM Dependent Ground Stacker



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3 Level EM Dependent Ground Stacker



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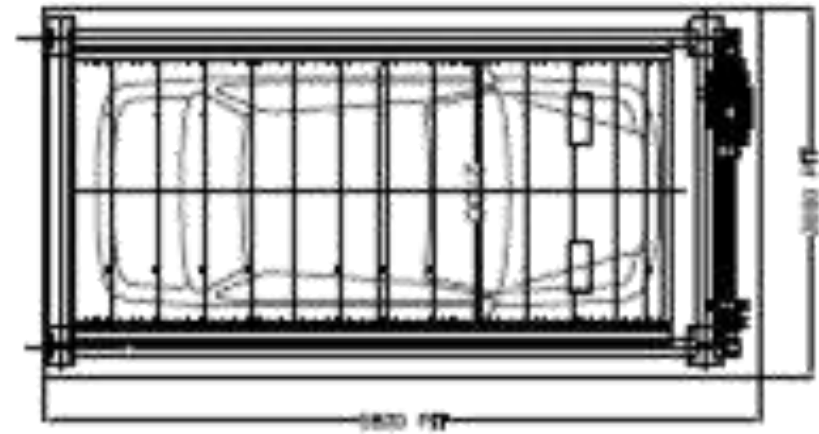
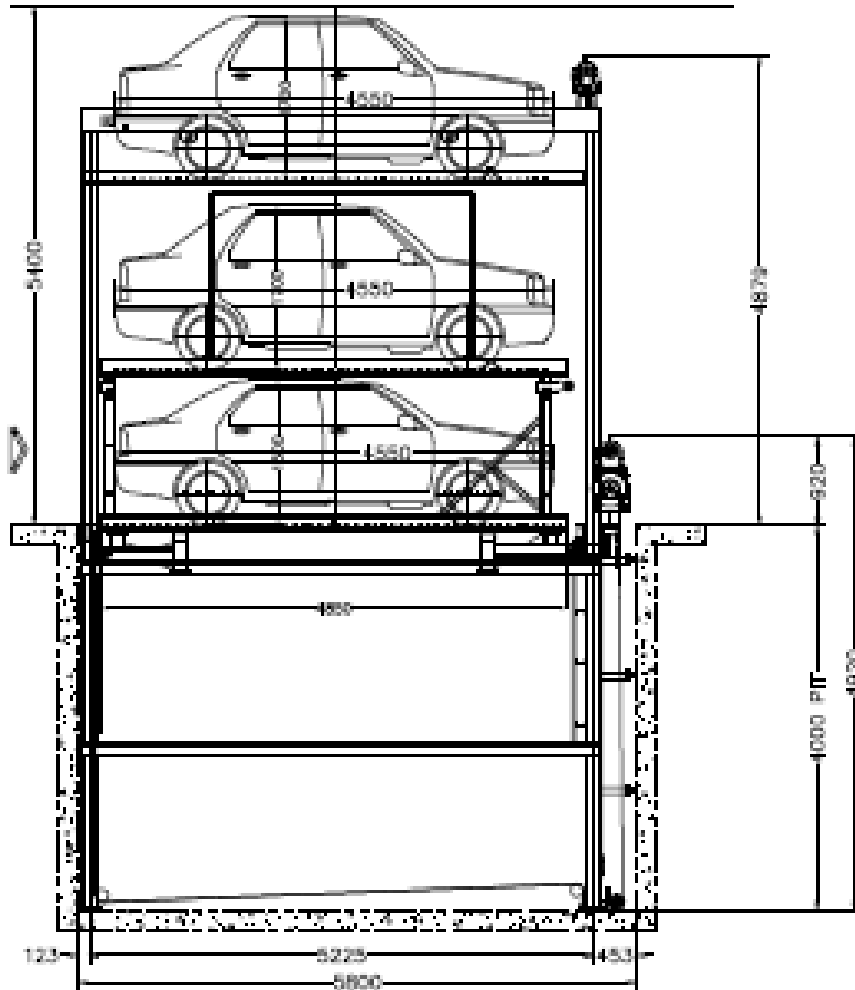
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3 Level Electromechanical Independent Pit Stacker Parking

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3 Level EM Independent Ground Stacker



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Puzzle Parking System

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PARI Domain Expertise In Car Parking



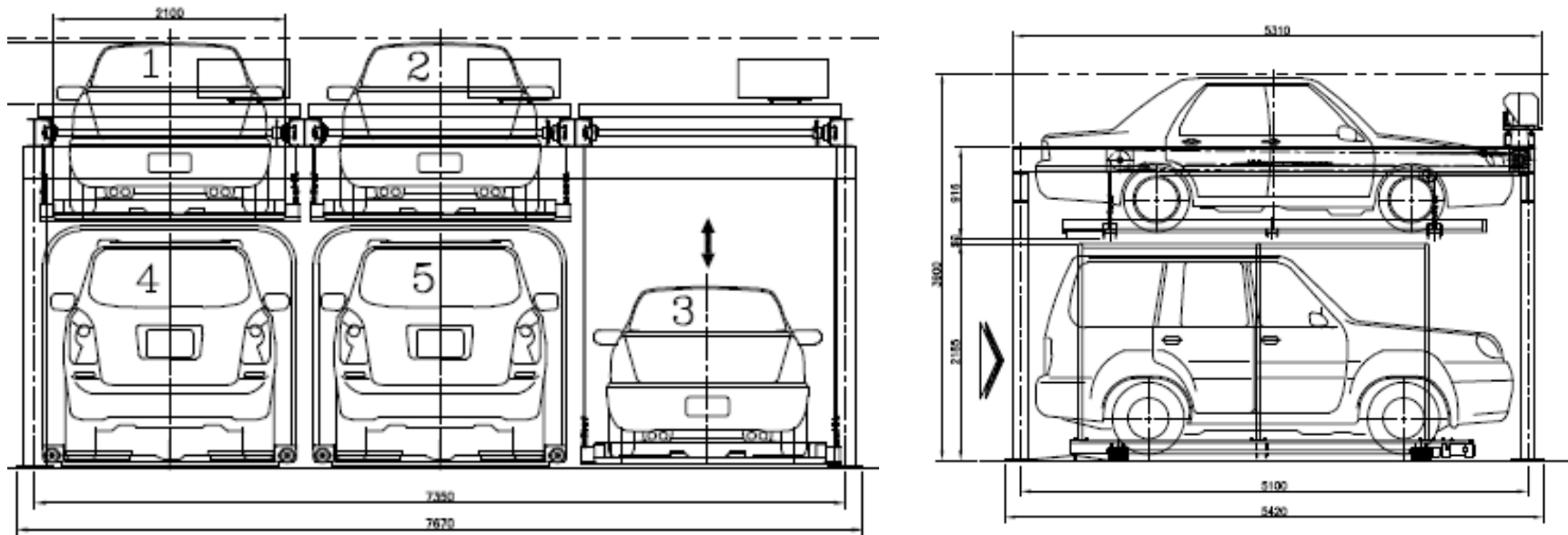
- Independent Parking System.
- Electromechanical System.
- PLC Based – Ample Safety Features.
- 6 Level above ground & 2 levels in Pit Possibility.



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PARI Domain Expertise In Car Parking

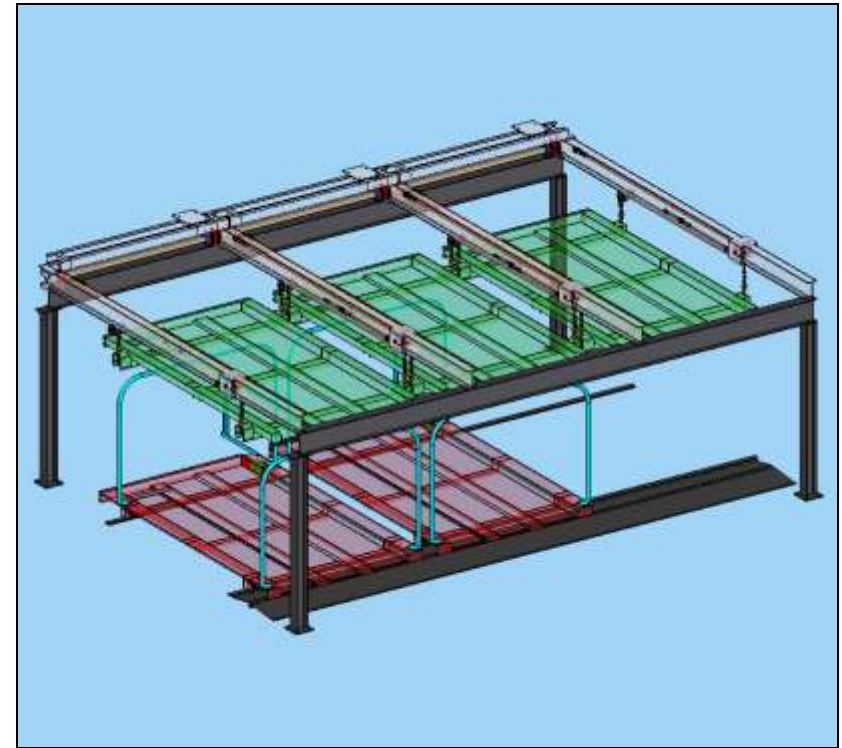


System Can be custom designed as per client's requirements.

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PARI Domain Expertise In Car Parking



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Puzzle Parking System Video



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Pune

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Puzzle Parking System Video




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Automated Car Parking System

PUZZLE TYPE

FOR HERO HONDA
GURGAON

Animation Created By  MILLER FOX



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5 Level Puzzle Parking System



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Fully Automatic Parking Systems

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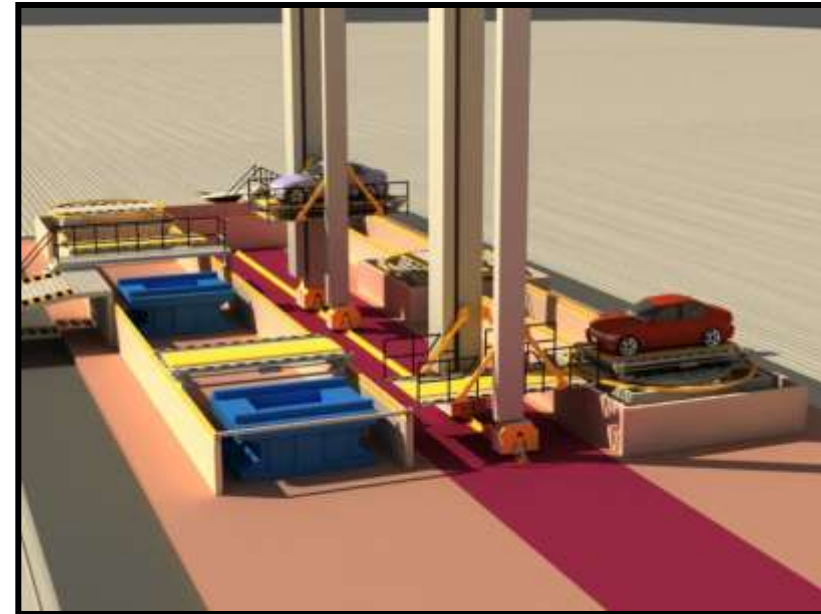
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Stacker Crane Parking System

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PARI Domain Expertise In Car Parking



- **Quick In – Out by simultaneously moving and lifting the cart while the vehicle wheel is lifted without the pallet.**
- **Under ground big parking system can be installed.**
- **Parking room is built using the concrete slab structure.**
- **Strong and easy to maintain.**
- **Lift can be installed along the entry module.**

System is custom designed as per client's requirements.

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Stacker Crane Parking System



Multi Level
Car Parking System

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Cart Type Parking System

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PARI Domain Expertise In Car Parking



World Class Automation & Robotic Technology

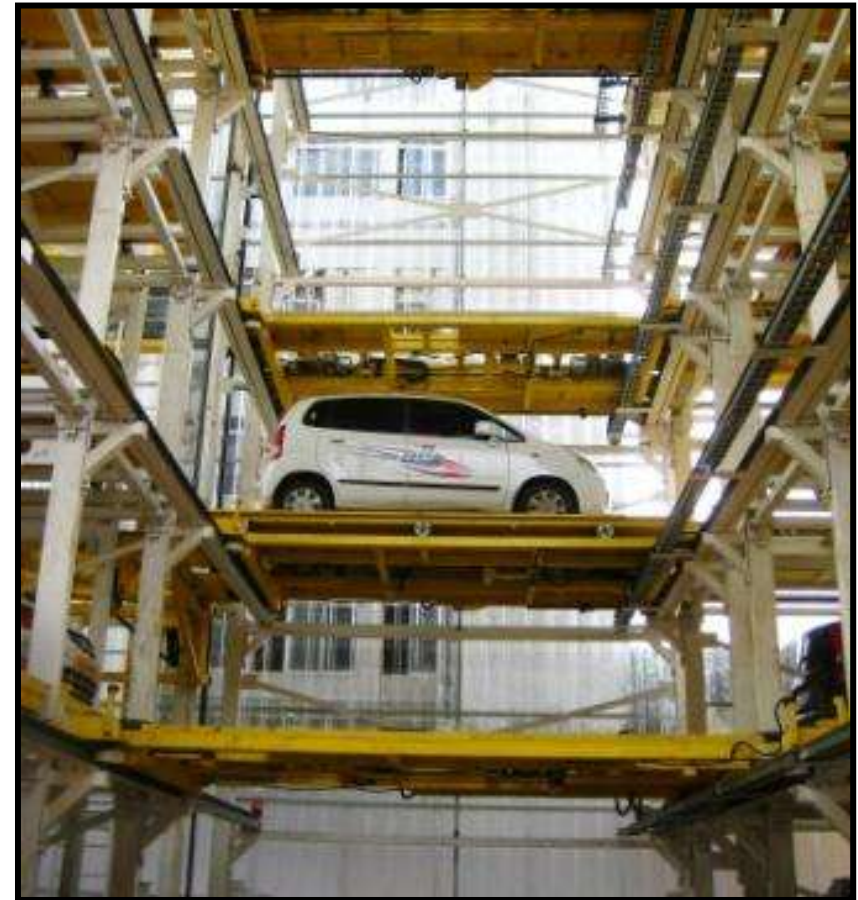
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PARI Domain Expertise In Car Parking



Salient Features

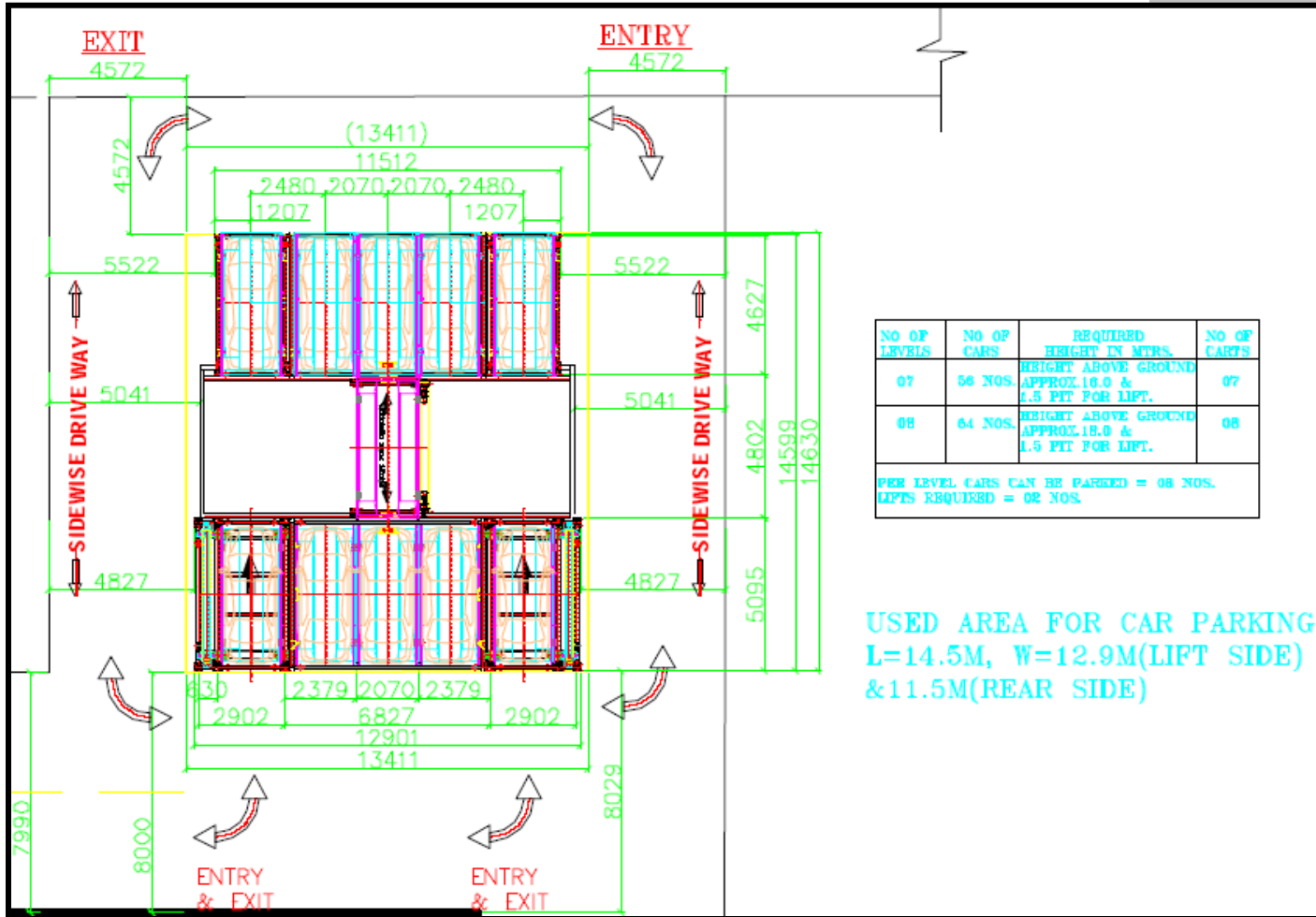
- Can be installed Under ground or outdoors
- Approx. 60 -70 cars per lift can be accommodated
- System types Transfer type, longitudinal type, hydraulic type, wire rope type.
- Reduced In – Out time for Car.
- Turn table parking gives more flexibility to system.
- Operating systems are – main Lift, Cart, Pallet.
- Can be installed in Pre Engineered Steel Structure as well as RCC Structure.



System is custom designed as per client's requirements.

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SARAVANA STORES – PARKING SYSTEM PLAN

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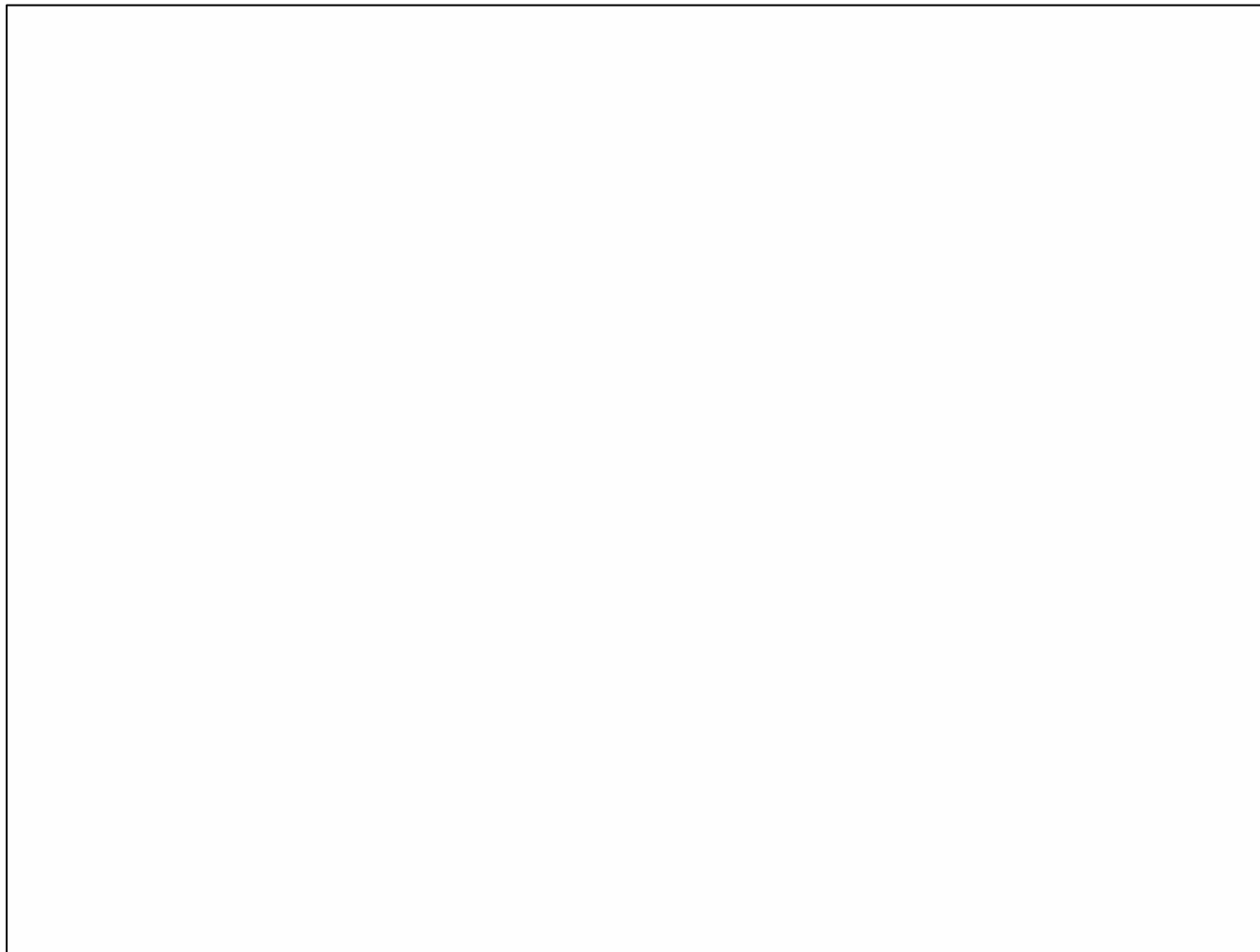
Projects Layouts



SARAVANA STORES – PARKING SYSTEM SECTION

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CART PARKING SYSTEM

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SARVANA STORE CHENNAI - CART PARKING SYSTEM

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Level Parking System

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PARI Domain Expertise In Car Parking



Salient Features

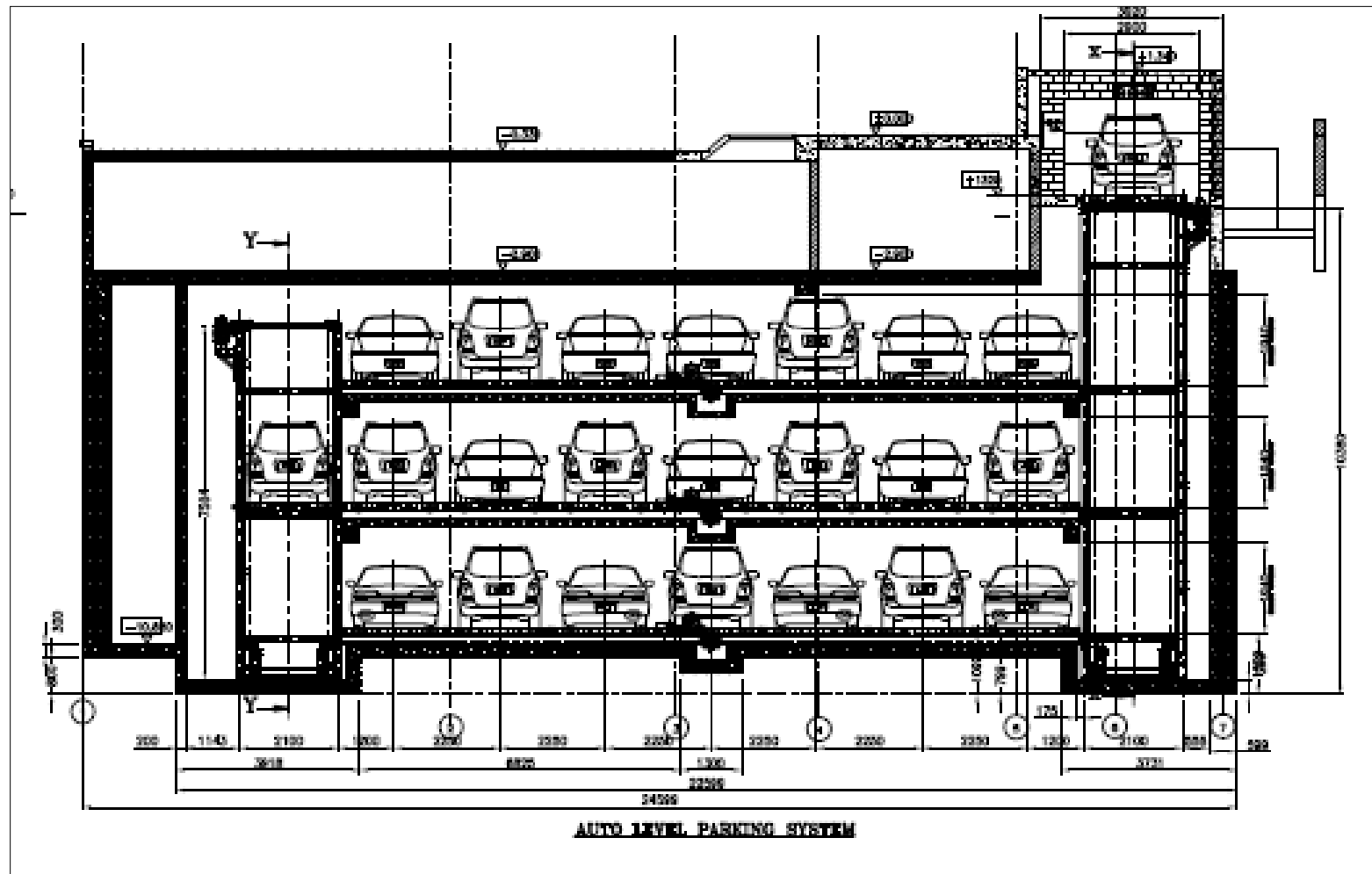
- Used for large buildings and for superior space efficiency.
- Addition to multi level parking spaces with vertical and horizontal directions to facilitate the entry & exits of cars.
- Operating systems are: lift, side sliding, pallet.

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System is custom designed as per client's requirements.

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Level Parking System



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**120PRR32A
CAR PARKING SYS
FOR FIDALGO**

LEVEL PARKING SYSTEM

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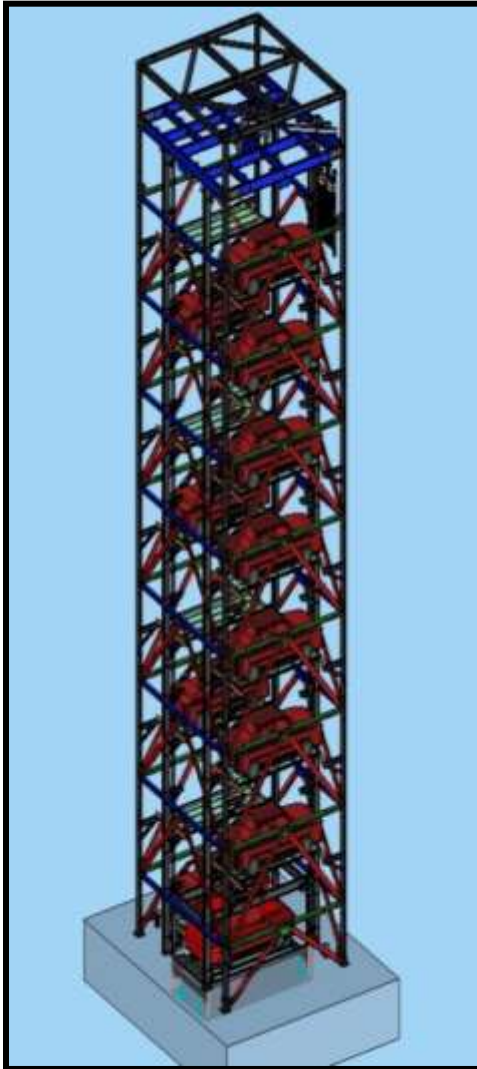
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Tower Parking System

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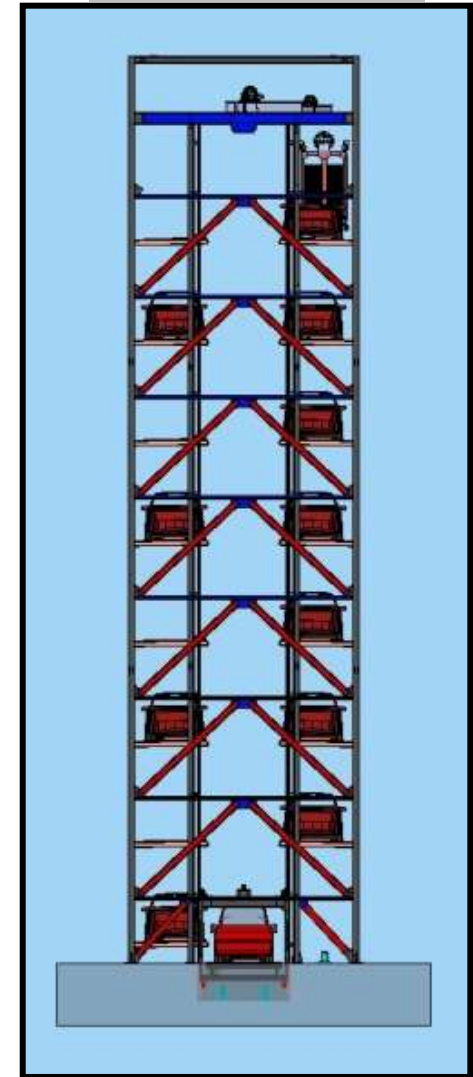
PARI Domain Expertise In Car Parking



Salient Features

- Vertical Allocation of the parking rooms,
- Up and Down movements of lifts,
- Independent Steel tower type and built in type.
- Turn Table Possibility at the Bottom.
- Various Vehicle Calling Facilities available.

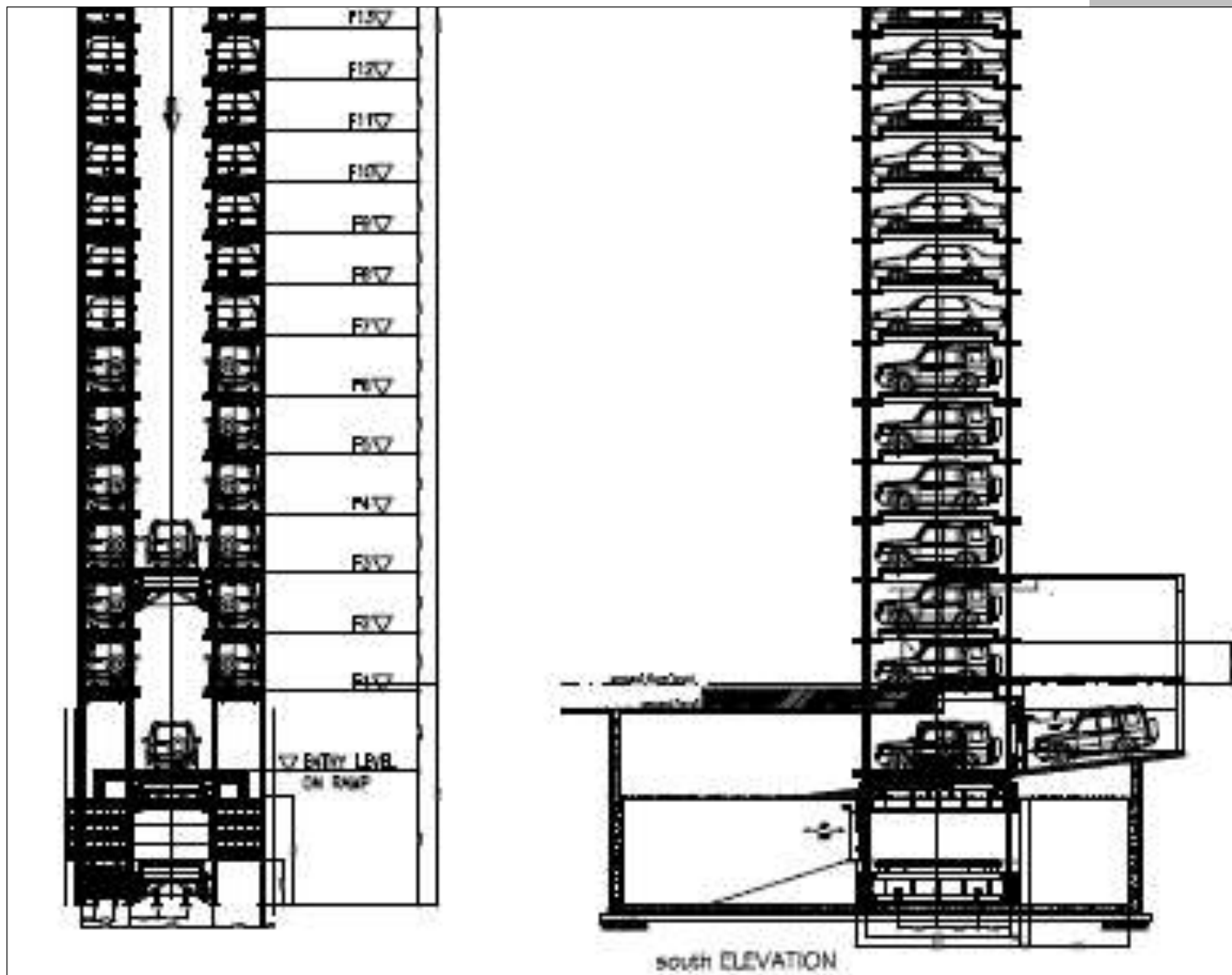
System is custom designed as per client's requirements.



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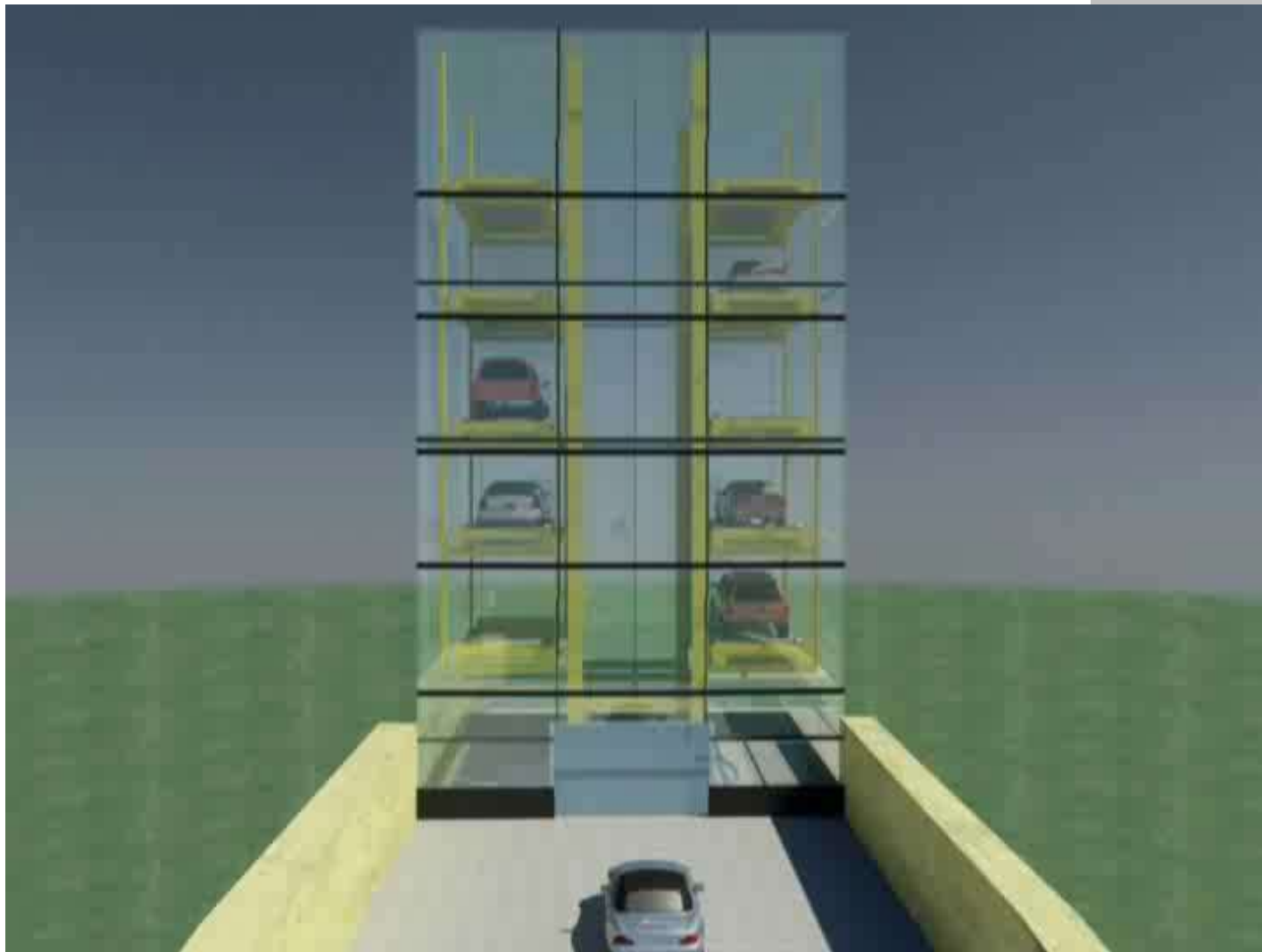
Tower Parking System



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Square Type Tower Parking System Video



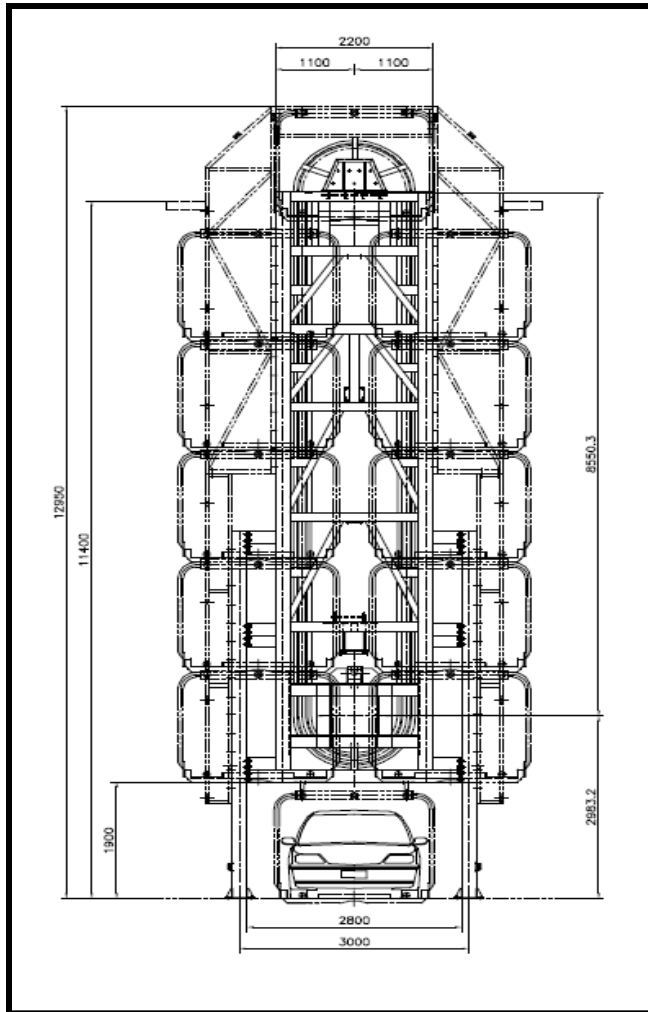
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Rotary Type Parking System

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Salient Features

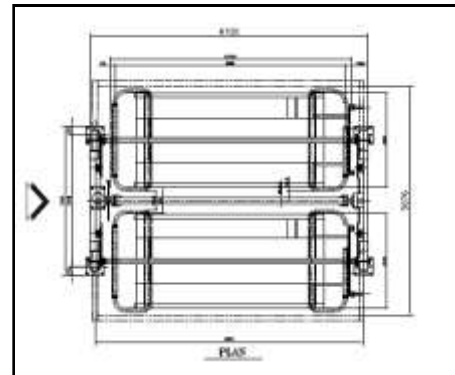
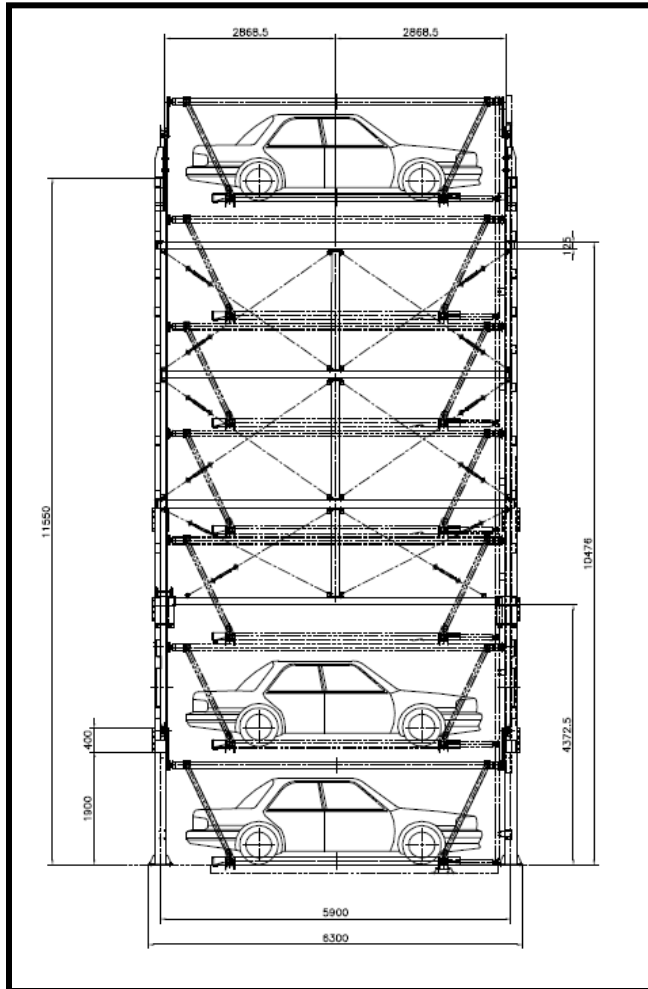
- Vertical Allocation of the parking rooms,
- Rotation direction is automatically selected which reduces the time of picking and parking,
- Extremely low noise with an easy operating system allows unit to be installed adjacent to occupied buildings
- Parking area can be extended 6 times, with a parking capacity of up to 14 cars at a small footprint area for only 2 cars.

System Can be custom designed as per client's requirements.

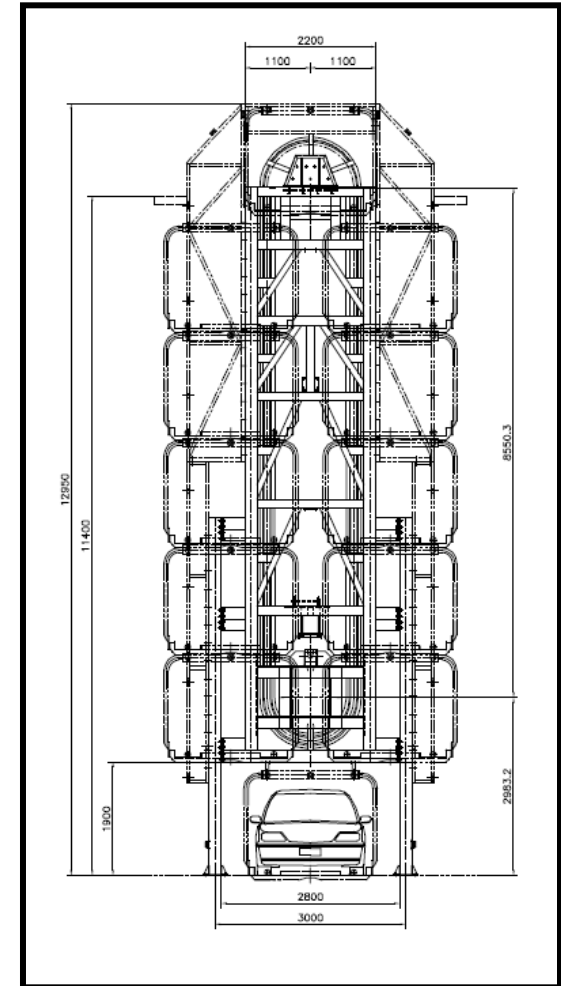
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Rotary Type Parking System



Sample Layout



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CHES Type Parking System

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PARI Domain Expertise In Car Parking



Salient Features

- Revolutionary Parking System with maximum floor space utilization.
- Vertical Allocation of the parking rooms.
- Virtual elimination of Driveways, Ramps, Passenger Lifts etc.
- 3 Side open Cantilever Lift for Direct Drive in and Drive out operations.
- Various Safety and Security feature Integration possibility.
- Independent Steel tower type and built in type in RCC Structures.

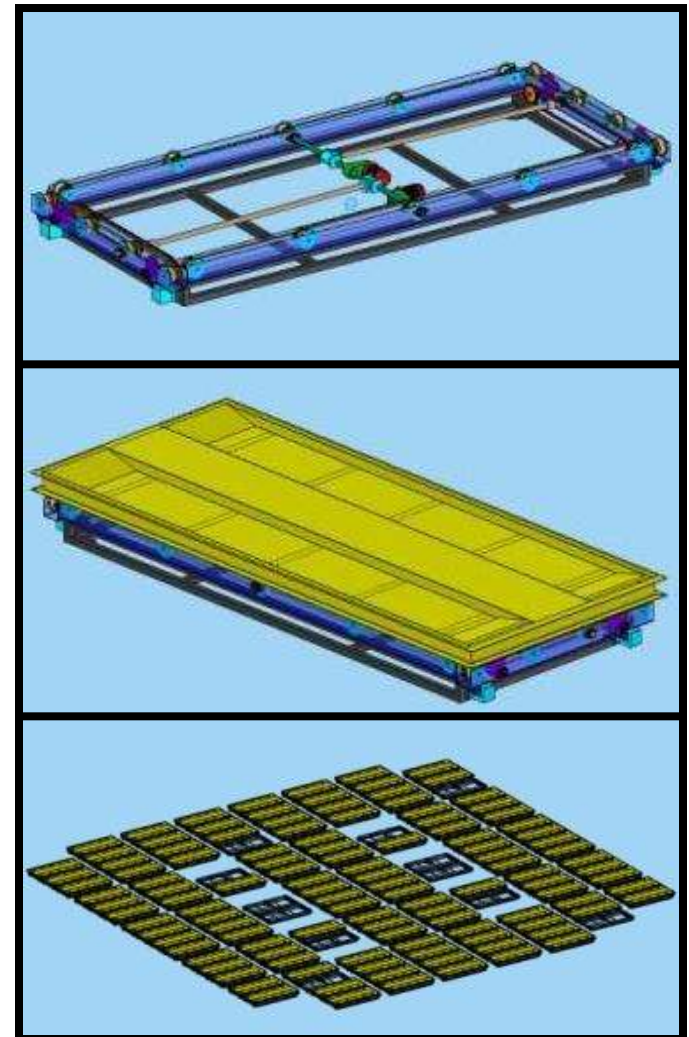
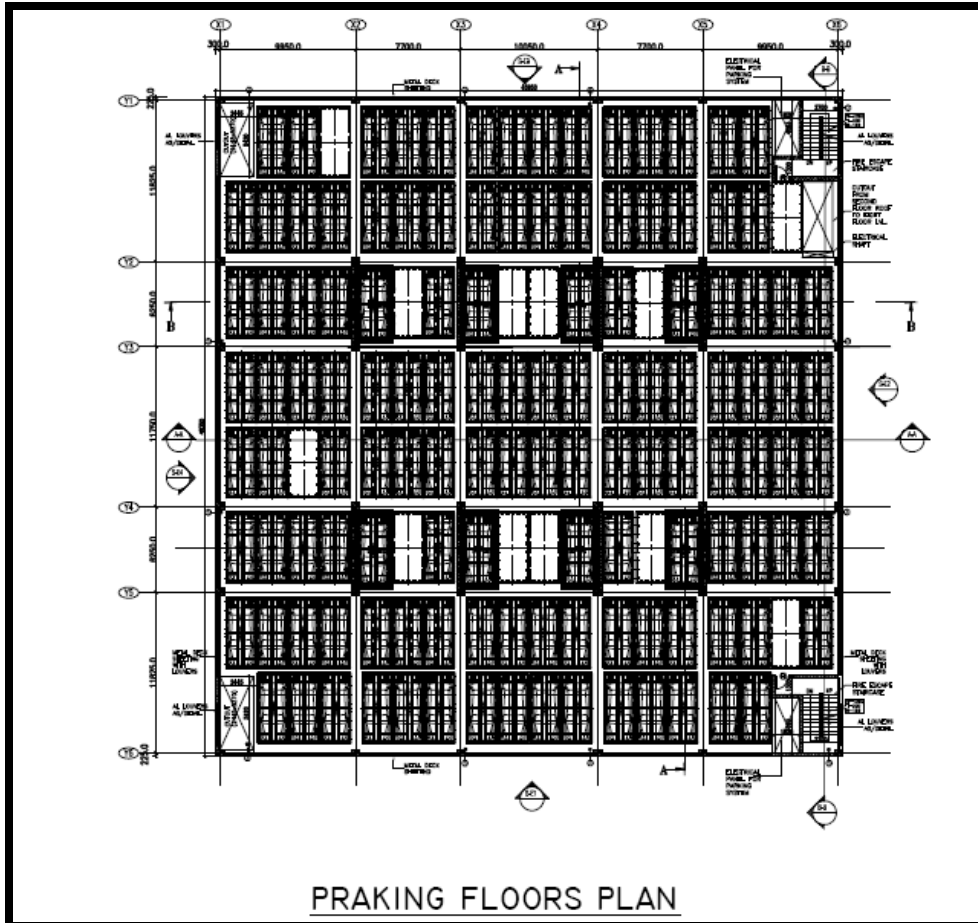


System is custom designed as per client's requirements.

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CHESSType Parking System



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CHES Type Parking System

**Project:
DLF Capitol Point,
BKS Marg, Cannought Place,
New Delhi**

PARI Domain Expertise In Car Parking

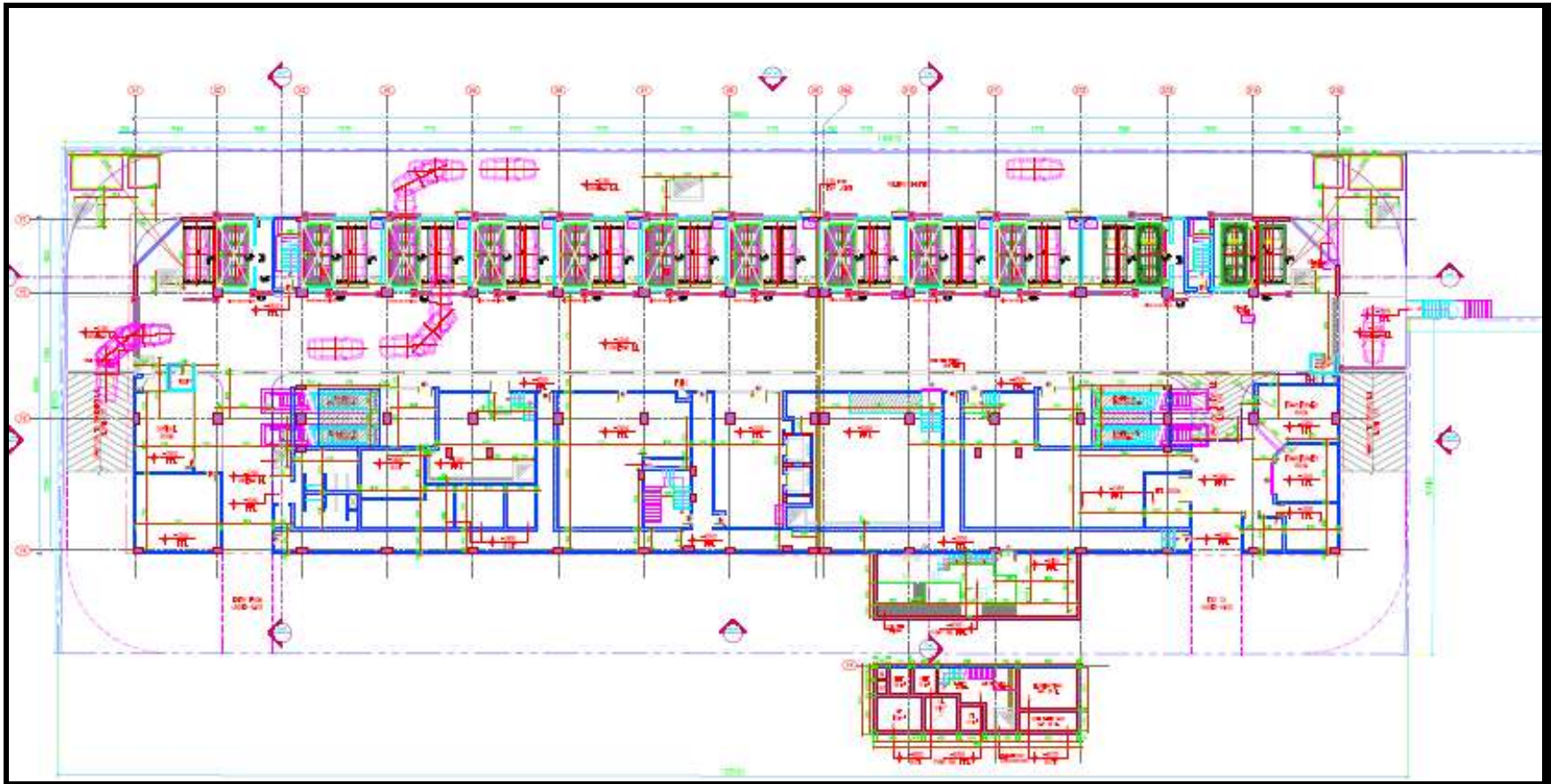


Vehicle Parking Capacity: 1408 nos. of cars

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CHES PARKING – BKS Road

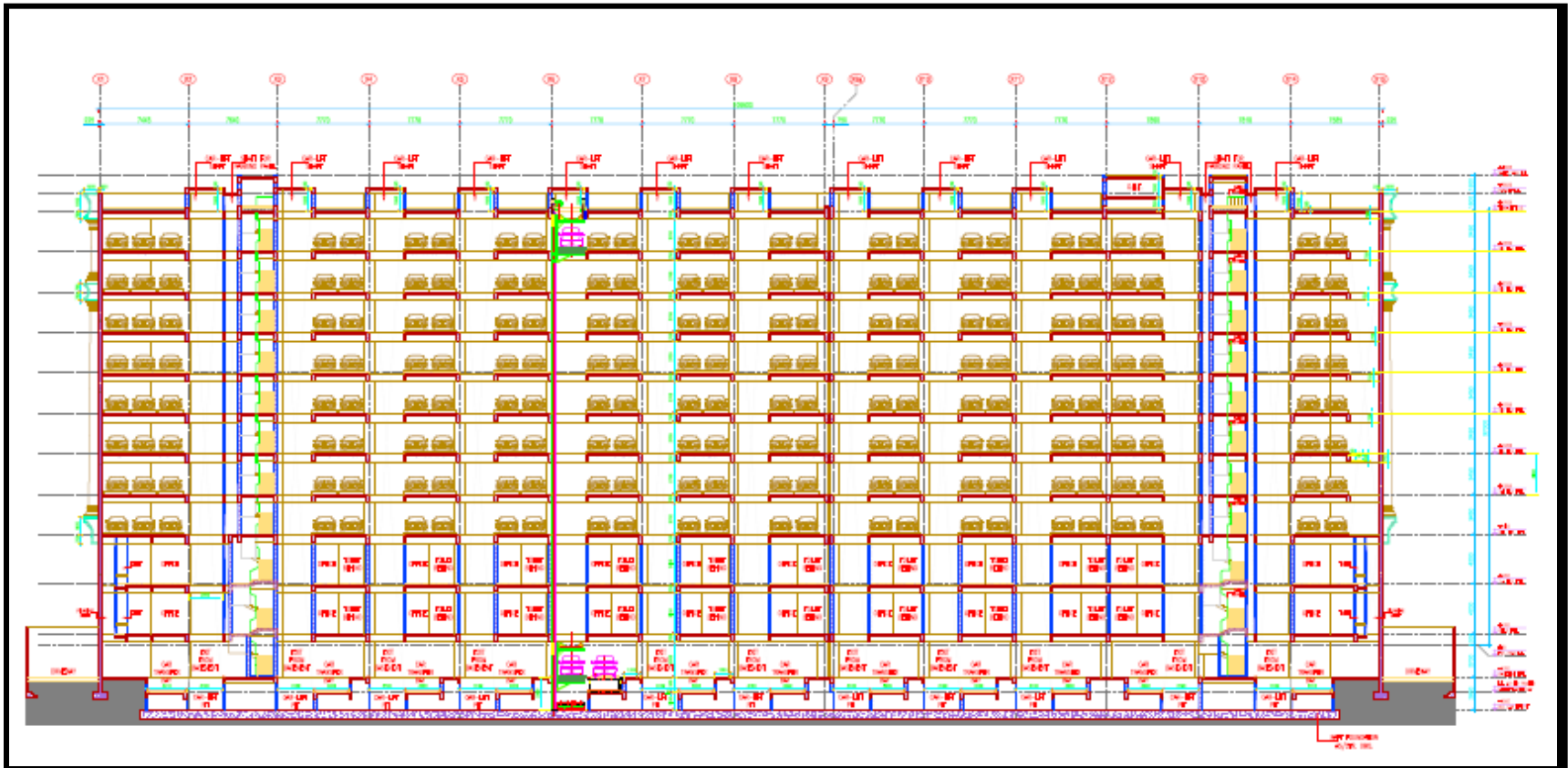


DLF BKS – BASEMENT FLOOR PLAN.

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CHESS PARKING – BKS Road

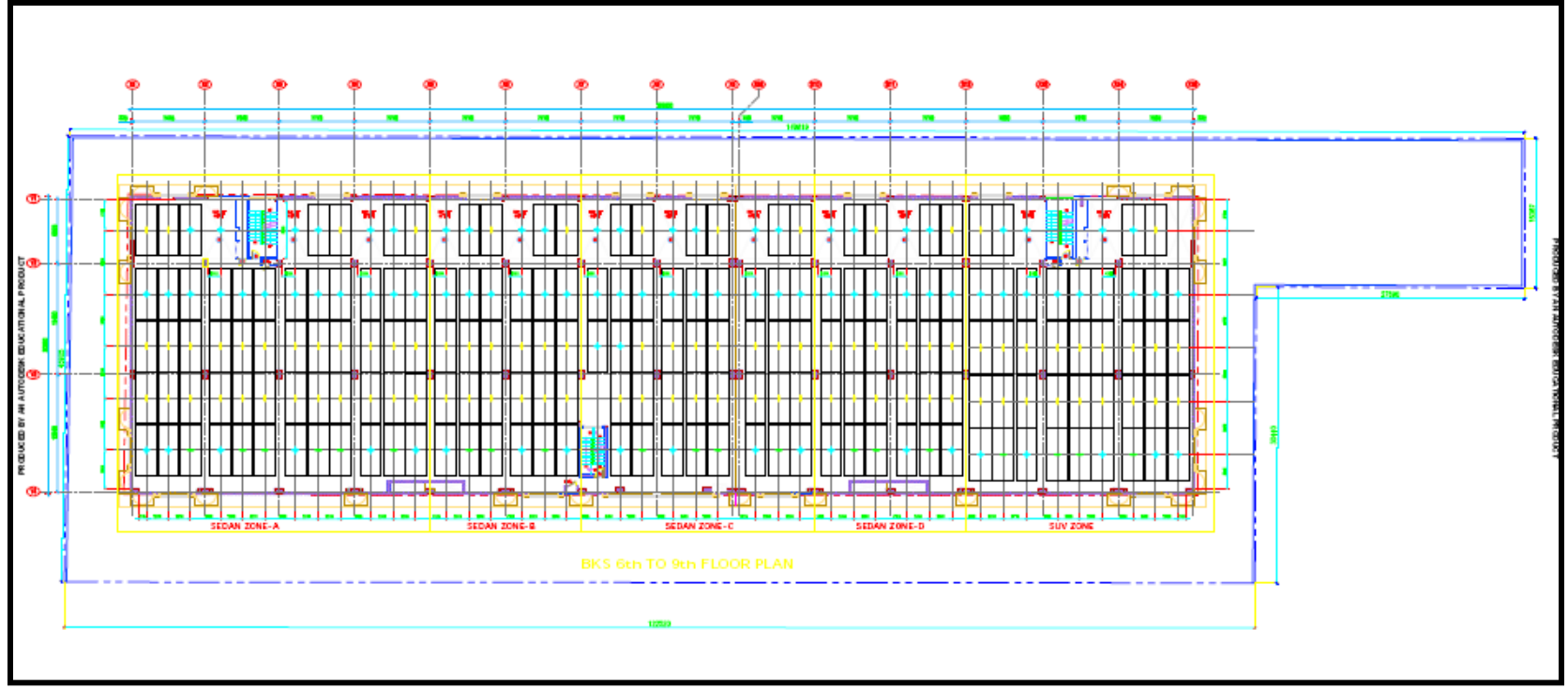


BKS - SECTIONAL

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CHESS PARKING – BKS Road



BKS – TYPICAL FLOOR PLAN.

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PRECISION AUTOMATION & ROBOTICS INDIA LTD.
Automated Car Parking System

CHESS TYPE

FOR DLF DELHI

Animation Created By **MECHATRIX**

The logo for PARI, featuring a stylized yellow and red shape to the left of the word "PARI" in a white, sans-serif font, all contained within a red rectangular border. Below the logo is the website address www.parirobotics.com.

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CHESS PARKING – BKS Road Video



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Comparison Coventional Vs Automated Parking

CHES Type Parking System

Project:

**DLF South Square,
Sarojini Nagar Market,
New Delhi**

PARI Domain Expertise In Car Parking

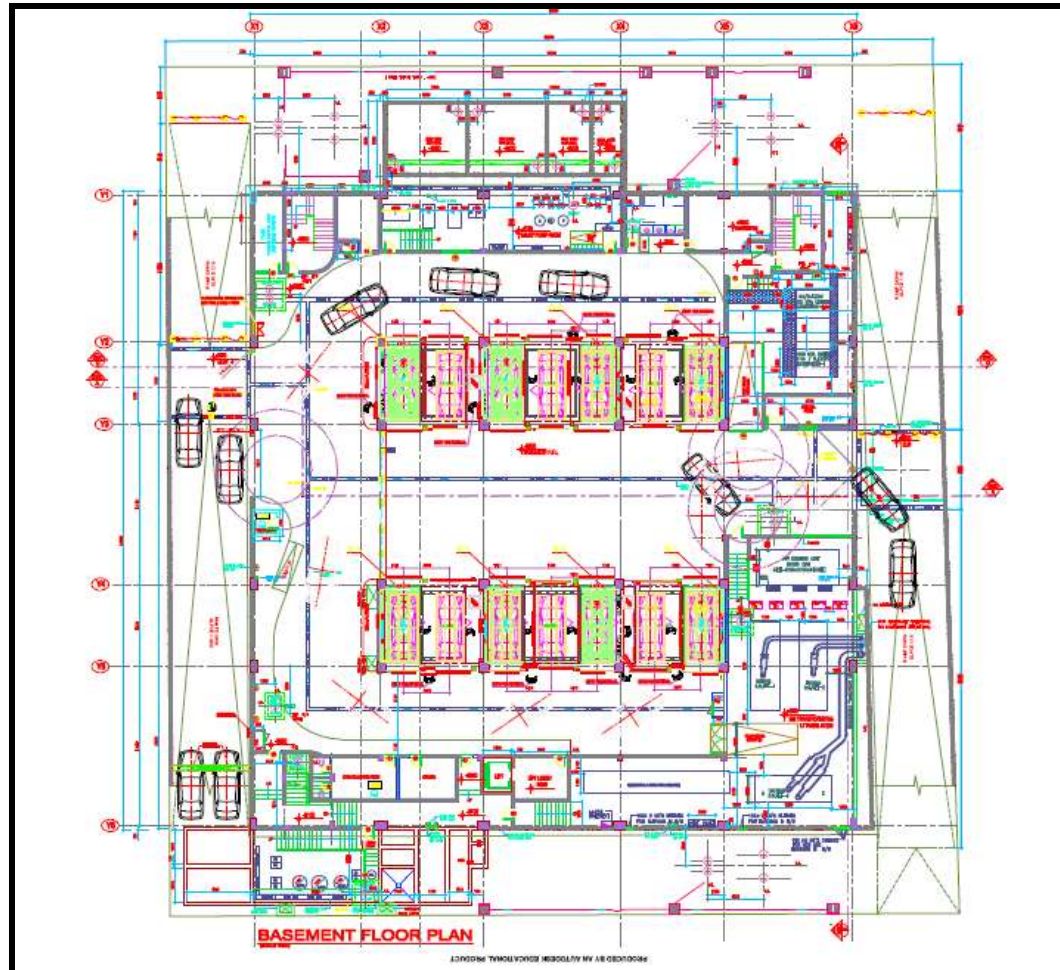


Vehicle Parking Capacity: 824 nos. of cars

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CHES PARKING – Sarojini Nagar Market

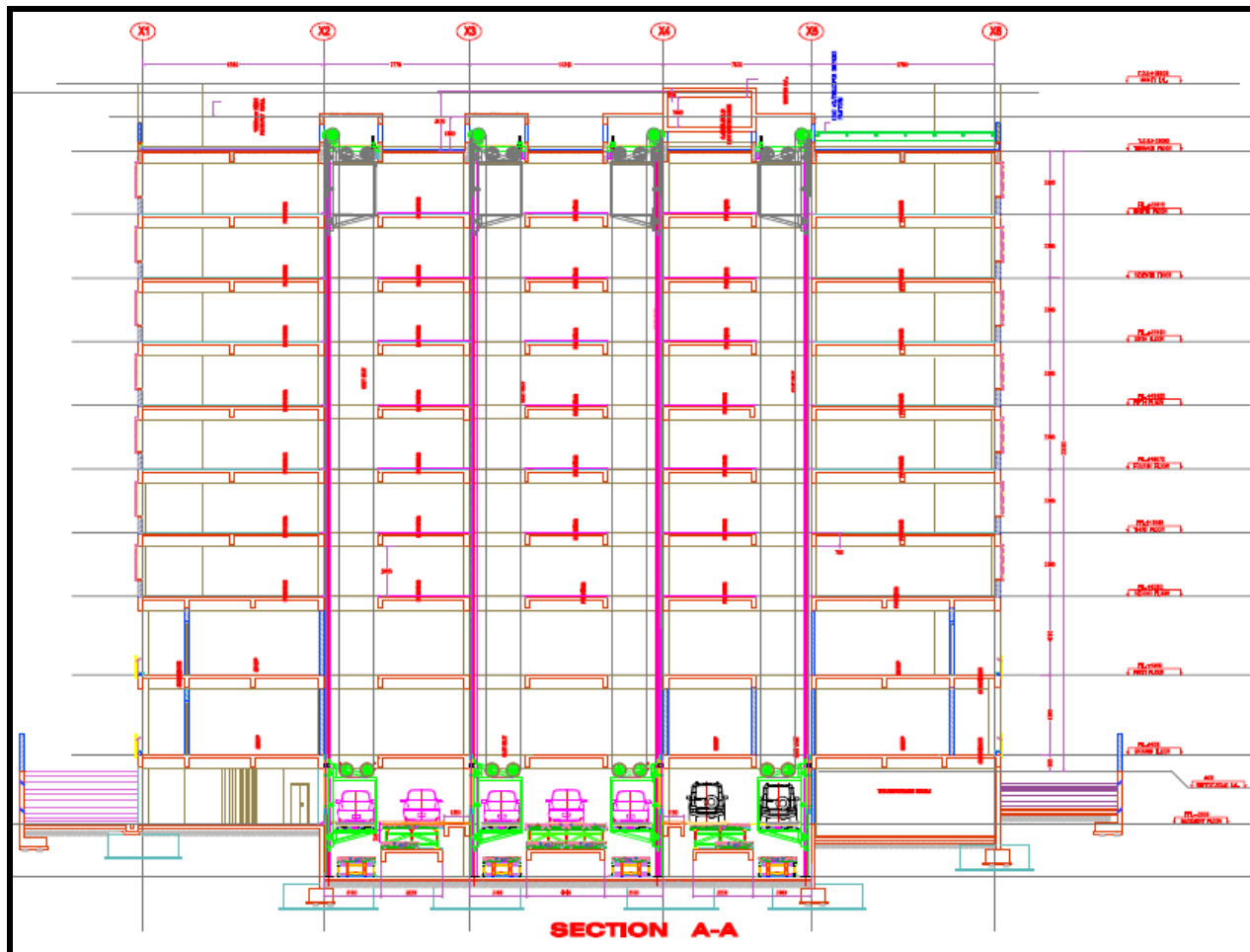


DLF SNM – BASEMENT FLOOR PLAN.

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CHESS PARKING – Sarojini Nagar Market

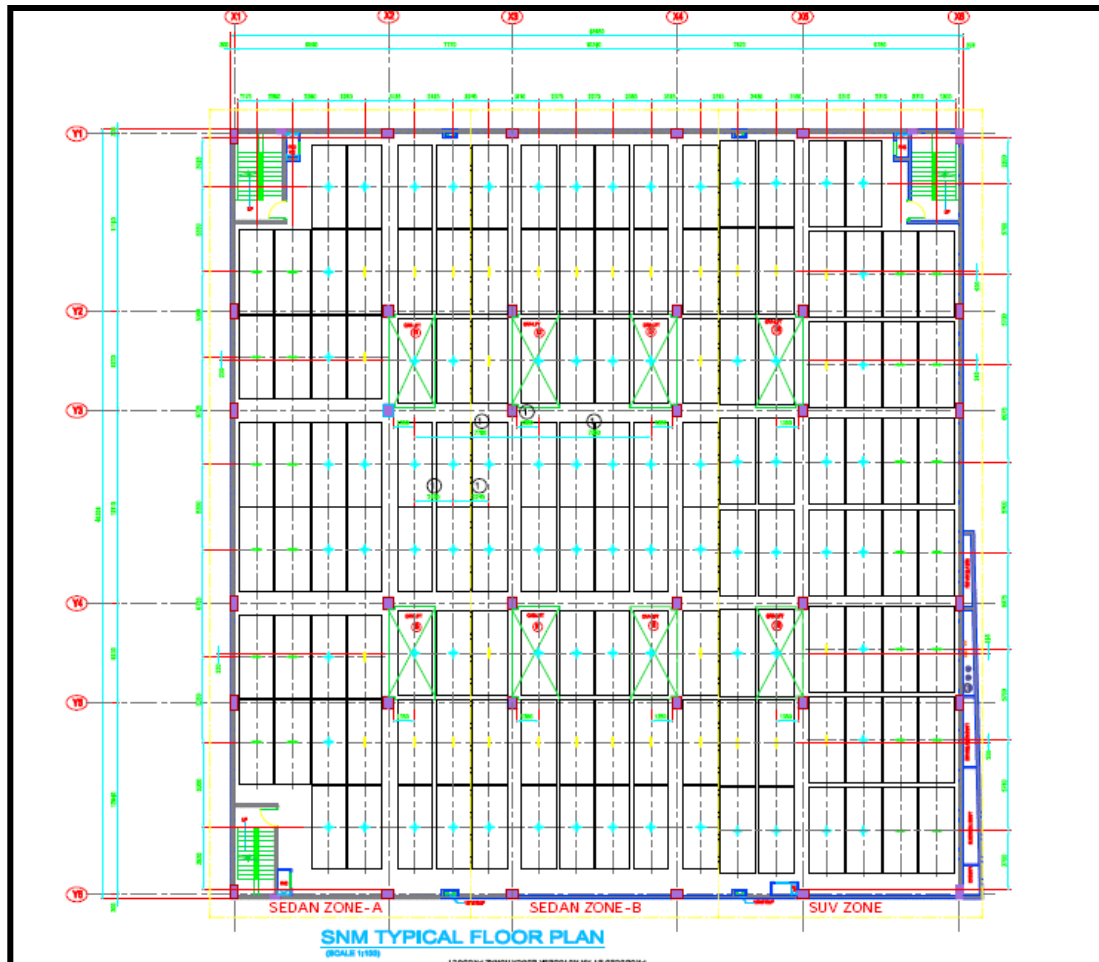


DLF - SNM - SECTIONAL

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CHESS PARKING – Sarojini Nagar Market



DLF - SNM – TYPICAL FLOOR PLAN.

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Delhi Chess Parking in News



SNM Parking Inauguration



BKS Parking Inauguration

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Delhi Chess Parking in News



NDTV India



BKS Parking Inauguration

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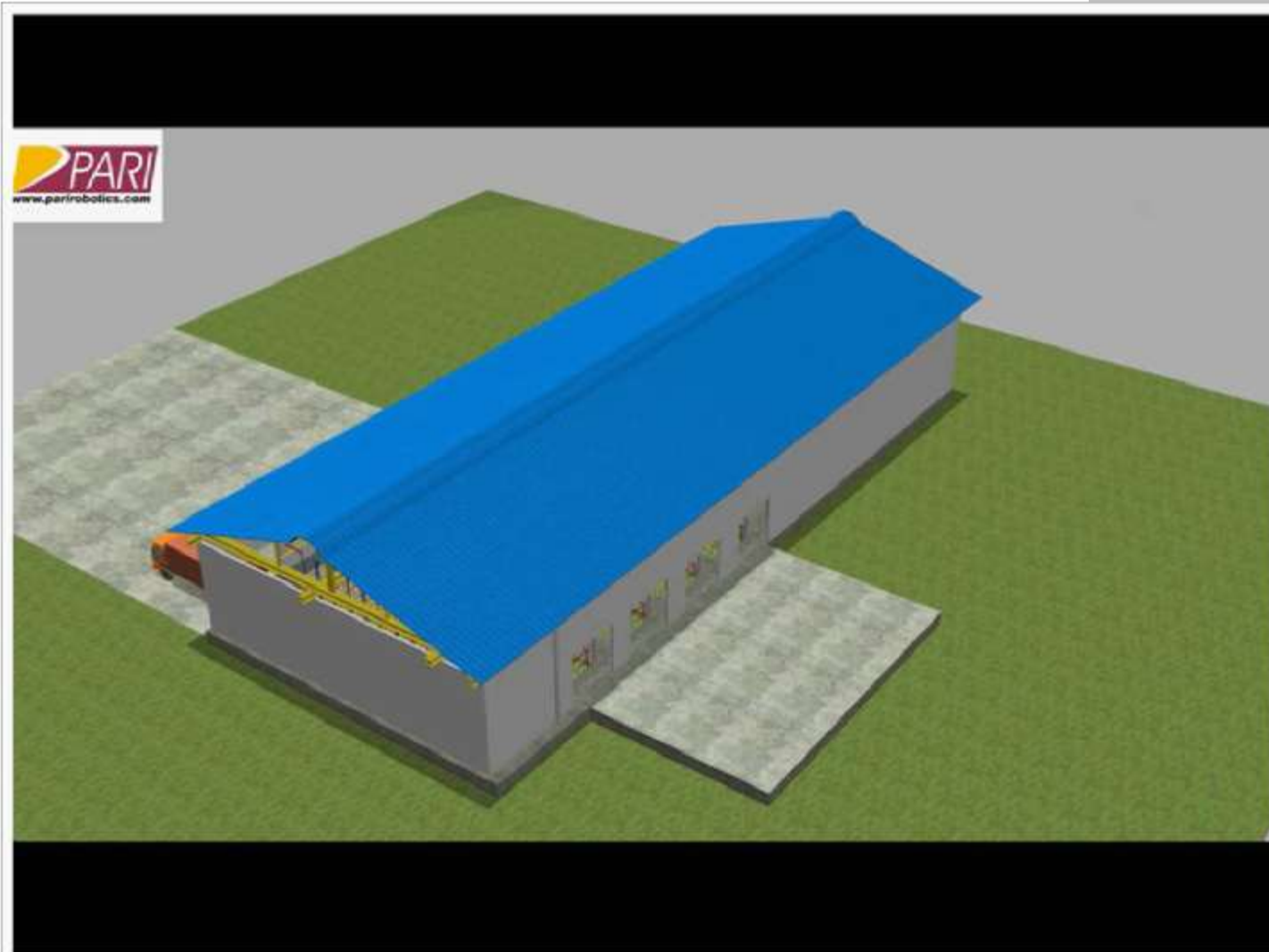
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Two Wheeler Parking System

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PARI Domain Expertise In Car Parking



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PARI Domain Expertise In Car Parking



Salient Features of the systems:

- Accommodates maximum cars in minimum space,
- Customized parking solution,
- Designed and manufactured in India to provide cost effective solutions,
- Low maintenance and operation cost,
- Safety for both car and the driver,
- Faster parking and retrieval,
- Eco Friendly,
- Attractive Modular design.

Safety Features of the systems:

- MLCPS provide complete safety to a vehicle as parked cars are not accessible to anyone else.
- Damages or a dent to the car is avoided while parking through narrow drive ways

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PARI Value Proposition In Car Parking

Technological Expertise:

- Strong expertise and references in automotive field,
- Dozens of years proven systems track record,
- Precision and high speed vehicle conveyance and transport systems (Palletized transport, turn tables, lifters, shuttles) for automotive industry,
- Expat experts with international experience in MLPS.

Local Engineering strength:

- Mechatronic system of industrial grade reliability,
- Value Engineering for optimal local performance,
- Customization for best utilization of site features,
- Control systems and software for mission critical applications,

Local business infrastructure:

- Competent technical support all over INDIA,
- Large project management and administration track records,

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PARI Domain Expertise In Car Parking



Accessories for the system:

- Fancy cladding.
- Remote operated retrieval system.
- Fire fighting sprinklers.

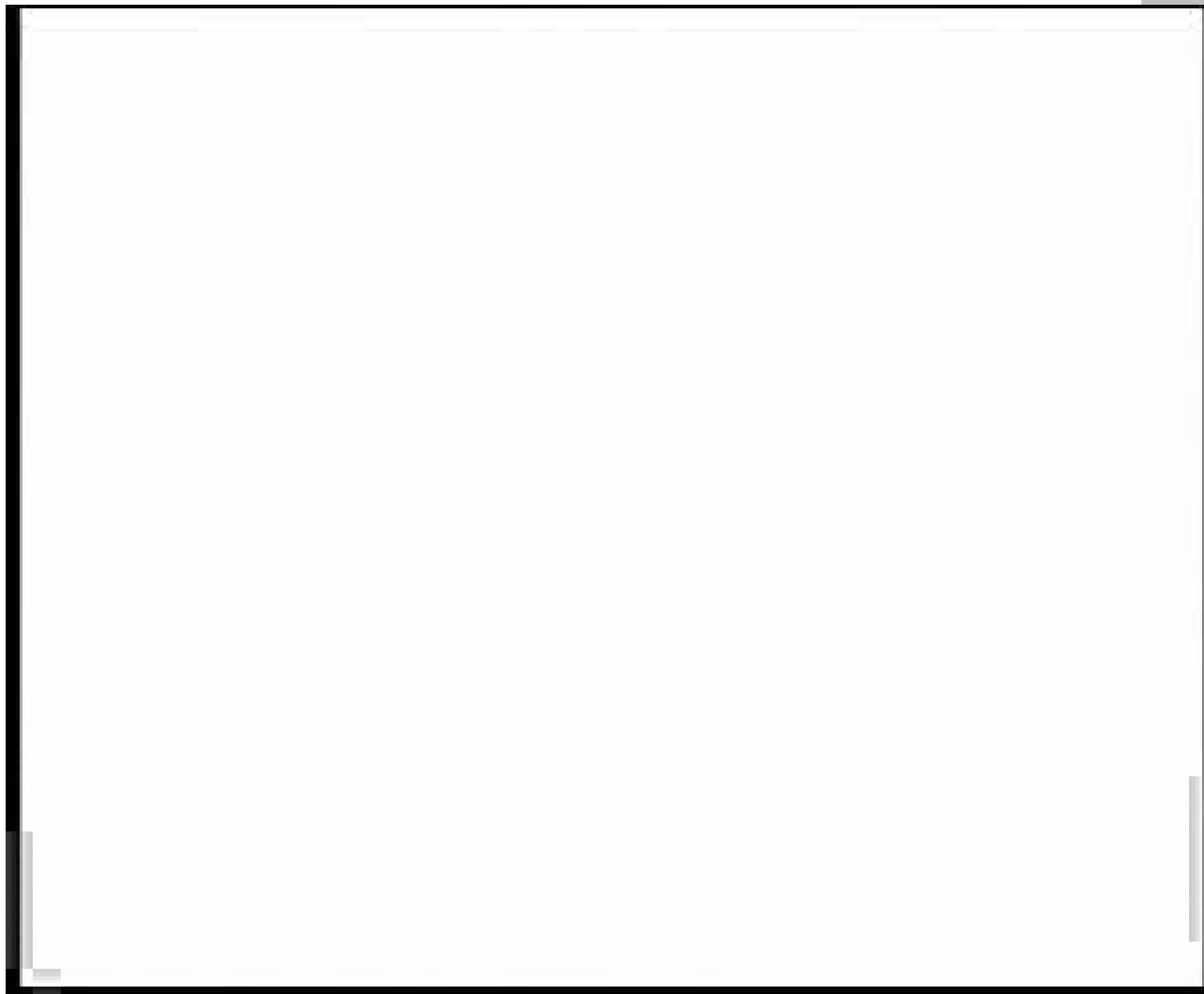
Failsafe Features:

- Manual Car Retrieval option.
- Area sensor protection for Semi Automatic and Fully Automatic Parking Systems.
- Brakes Motor – Energized to disengage.
- Multi Rope lifting for each pallet.
- Free fall protection for car on first level and above.
- ANDON Displays for Full or vacant parking for fully automated parking system.

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PARI – PARKING PROJECT HISTORY



PROJECT REFERENCES - PRECISION AUTOMATION & ROBOTICS INDIA LTD. 2007 – 2013

<u>Sr. No.</u>	<u>Customer Name</u>	<u>System Supplied</u>	<u>Total Units</u>	<u>Total Nos. of ECS/CARS in nos.</u>	<u>Location</u>
1	DLF - Sarojini Nagar	Fully Automatic CHESS Parking System	1	824	Delhi
2	DLF - Connaught Place	Fully Automatic CHESS Parking System	1	1408	Delhi
3	Saravana Stores	Fully Automatic CART Parking System	1	56	Chennai
4	Amit Enterprises	Motorised - Simple Stacker Parking System	222	444	Pune
5	KDH Properties	Motorised - Simple Stacker Parking System	28	56	Chennai
6	Akar Creations	Motorised - Puzzle Parking system	1	9	GOA
7	LAPP India	Motorised - Simple Stacker Parking System	5	10	Bangalore
8	Pune Airport	Motorised - Puzzle Parking system	1	5	Pune
9	Brigade group	Motorised - Simple Stacker Parking System	18	36	Bangalore
10	Purvankara	Motorised - Simple Stacker Parking System	16	32	Bangalore
11	IBIS/NOVATEL	Hydraulic - Simple Stacker Parking System	57	114	Bangalore
12	Mahima Group	Motorised - Simple Stacker Parking System	100	200	Jaipur
13	ASF Infra	Motorised - Simple Stacker Parking System	200	400	Faridabad
14	K.R construction	Motorised - Simple Stacker Parking System	2	4	Mumbai
15	K.R construction	Motorised - 3 Level Pit Stacker Parking System	4	8	Mumbai
16	Balaji Nirman	Motorised - Simple Stacker Parking System	5	10	Mumbai
17	Kanakia Country Park	Motorised - Simple Stacker Parking System	12	24	Mumbai
18	Kanakia Western Edge	Motorised - Simple Stacker Parking System	25	50	Mumbai
19	Kanakia Boomerang	Motorised - Simple Stacker Parking System	25	50	Mumbai

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PARI – PARKING PROJECT HISTORY



20	Kanakia	Motorised - Simple Stacker Parking System	6	12	Mumbai
21	Kanakia	Hydraulic - Cantilever Simple Stacker Parking System	4	8	Mumbai
22	Ekjyout	Motorised - Simple Stacker Parking System	4	8	Mumbai
23	Hotel Khwaish	Motorised - Simple Stacker Parking System	2	4	Mumbai
24	Rachna Astra construction	Fully Automatic Tower Paring System	2	116	Mumbai
25	ESIC Hospital	Fully Autoamatic - Chess Type	1	250	Mumbai
26	Sai Group	Fully Automatic - Rotary Tower parking	1	10	Mumbai
27	Ackruti	Motorised - Simple Stacker Parking System	76	152	Mumbai
28	Ackruti	Motorised - Puzzle Parking system	1	13	Mumbai
29	Bharati Reality Ltd	Motorised - Simple Stacker Parking System	99	198	Ludhiana
30	Bharati Reality Ltd	Motorised - Puzzle Parking system	229	229	Ludhiana
31	Nahar Builders	Motorised - Simple Stacker Parking System	20	40	Mumbai
32	Shipra World / Hotel Mussorie	Motorised - Puzzle Parking system	1	26	Gaziabad
33	Jagdamba Co-Op Society	Motorised - Simple Stacker Parking System	3	6	Mumbai
34	Dinanath Mangeshkar Hospital	Motorised - Simple Stacker Parking System	5	10	Pune
35	Supreme Infra Ltd.	Chess Type Parking System	1	175	Mumbai
36	Sancheti Associates	Motorised - Simple Stacker Parking System	29	58	Pune
37	Kudale Patil Construction Ltd.	Motorised - Simple Stacker Parking System	3	6	Pune
38	Aum Events	Motorised - Simple Stacker Parking System	1	2	Ahmedabad
39	Eiffel Developers	PIT Type Puzzle Parking System	1	8	Pune
40	Pandit Javdekar Constructions	Motorised - Simple Stacker Parking System	12	24	Pune
41	Achalkar Architects	Motorised - Simple Stacker Parking System	1	2	Pune
42	Ashok Jain & Associates	Motorised - Simple Stacker Parking System	5	10	Pune

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PARI – PARKING PROJECT HISTORY



43	PR Developers	Tower Type car parking	1	17	Mumbai
44	Lotus Commercials	Motorised - Simple Stacker Parking System	14	28	Mumbai
45	Paras Marketing Co. Ltd.	Motorised - Simple Stacker Parking System	1	2	Kolkata
46	Manipal Centre	Motorised - Simple Stacker Parking System	5	10	Bangalore
47	Redifice Developers	Motorised - Simple Stacker Parking System	14	28	Bangalore
48	Bafna Auto	Car Bridge	1	1	Pune
49	Ankit Ent	Motorised - Cantilever Simple Stacker Parking System	4	8	Mumbai
50	ASF Insignia	Motorised - Simple Stacker Parking System	6	12	Faridabad
51	Mars Viniyog	PIT Type Simple Stacker Parking System	2	4	Bangalore
52	Shrusti	Double PIT Type Puzzle car parking system.	7	55	Chennai
53	Bramha Corp	Cart type car parking	1	604	Pune
54	Uma Developers	Motorised - Simple Stacker Parking System	6	12	Thane
55	Hubtown Ltd.	Motorised - Simple Stacker Parking System	108	216	Mumbai
56	Premier Inn	Motorised - Simple Stacker Parking System	45	90	Pune
57	Sai Eshwar Properties	Scooter Lift	1	1	Pune
58	Sai Eshwar Projects	Scooter Lift	1	1	Pune
59	Gokhale Constructions	Motorised - Simple Stacker Parking System	1	1	Pune
60	Olympia Enterprises	Hydraulic - Simple Stacker Parking System	5	10	Mumbai
61	Roots Corporation	Car Lift and Simple Stacker Parking System	4	8	Noida
62	Deoyani Multi Specialty Hospital	Puzzle Parking System	13	26	Pune
63	Shree Ramanjaneya Hotels - Hotel Fidalgo	Level Parking System	1	34	Pune
64	L&W Builders	Motorised - Simple Stacker Parking System	11	22	Bangalore
65	Gokhale Sabade Associates	Simple Stacker & Puzzle Parking System	76	182	Pune

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PARI – PARKING PROJECT HISTORY



66	Eiffel Homes	Puzzle type car parking & Simple Stacker	2	22	Pune
67	Shri Krishna Jewellers	Puzzle Type System	1	89	Hyderabad
68	Aurum Platz	Tower Type car parking	1	33	Mumbai
69	Kothari Investments	Motorised - Simple Stacker Parking System	18	36	Mumbai
70	Jaising Apartments	Motorised - Simple Stacker Parking System	8	16	Mumbai
71	Ashima Estate	Motorised - Simple Stacker Parking System	4	8	Ahmedabad
72	Fairdeal Constructions	Chess type car parking	1	52	Mumbai
73	Velentine Properties	Tower Type car parking	2	120	Mumbai
74	Om Shiv Hydro Power & Construction	2 & 3 Level Simple Stacker Parking System	12	29	Mumbai
75	SSK Developers	Motorised - Simple Stacker Parking System	8	16	Pune
76	Citicorp Builders	PIT Type Puzzle Parking System	1	4	Pune
77	Pearl Developers	Motorised - Simple Stacker Parking System	13	26	Pune
78	Gopalan Enterprises	Motorised - Simple Stacker Parking System	110	220	Bangalore
79	East & West Builders (RNA Corp)	Chess type car parking	1	716	Mumbai
80	A A Estate Pvt. Ltd.	Cart Type car parking	1	890	Mumbai
81	Accent Hotel	3 Level Hydraulic Pit Stacket & 2 Level Simple Stacker	25	69	Chennai
82	Osho Developers	3 level Simple Stacker Car Parking System	6	18	Mumbai
83	Interglobe Hotels Chennai (IBIS)	2 level Simple Stacker & 3 level PIT Hydraulic stacker	23	58	Chennai
84	Interglobe Hotels Bangalore	Motorised - Simple Stacker Parking System	47	94	Bangalore
85	Nikam Brothers	2 Level Puzzle & 3 Level Pit Puzzle Parking System	2	8	Pune
86	Saravana Stores	Chess Type car parking - CHROMPET	1	115	Chennai
87	Saravana Stores	Chess Type car parking - PADI	1	224	Chennai
88	Pothys-Aalayam of silks	Puzzle type car parking - 5 Level	1	42	Chennai
89	Ghanshyam Builders	Car Parking - Tower, Puzzle, Simple Stacker	15	125	Mumbai
90	Arihant Enterprise	Level Parking System	1	13	Mumbai
91	Indra Paul Arora	2 level Simple Stacker & 3 level PIT stacker	9	23	Chandigarh
92	Surmount Builders	Motorised - Simple PIT Stacker Parking System	8	16	Pune
93	S A Properties	Motorised - Simple Stacker Parking System	14	28	Pune
94	Chamber Construction	Motorised - Simple Stacker Parking System	1	2	Mumbai
			1896	9591	
			Systems	Cars	

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INDIA
Forbes

They're Making Car Parking Easier

by Seema Singh
Soon, when you drive to a mall, all you might have to do is punch a card to park your car. Bid adieu to long queues and wasted fuel

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Image: Raju Patil for Forbes India

STACKED SUCCESS The fully automated car park at Chennai's Saravana mall

Soon, when you drive to a mall, all you might have to do is punch a card to park your car. Bid adieu to long queues and wasted fuel

If you live in a city and drive a car, chances are your parking travails will resonate with millions of others in India. The experience may range from delayed meetings to deflated tyres (the act of angry residents); fines in no-parking zones; stolen valuables to even vehicles getting towed away from that no-man's land — the space that

borders on the parking and no-parking zone.

With 800,000 cars and 15 million two-wheelers being added to Indian roads every year, finding a place to park is an everyday battle.

But residents of Delhi, especially those who work or live in Connaught Place, could be in for some respite. From sometime in July, a fully automated public car parking system on Baba Kharak Singh Marg will allow 1,400 cars to be parked on eight floors of a 10-storey building (two floors will have a shopping complex).

Car owners will punch a card and leave their vehicle at an entry point pallet (a steel plate). A lift will move the pallet to an available parking slot. On return, owners will punch their card again and the vehicle will be retrieved in three minutes, says Ranjit Date, founder-president and joint MD of Precision Automation and Robotics India (PARI), a Pune firm that designed and developed the parking system.

The New Delhi Municipal Council (NDMC) land on which this is built has been developed by DLF. The cost for car owners? A mere Rs. 10 per hour — for now. This is the price DLF is charging to encourage car owners to use this facility. Builders and PARI say Rs. 50 an hour is a more realistic price.

PARI installed a similar system, for 50 cars, at Chennai's Saravana mall. It has been working for six months now.

So far, NDMC has tendered 43 public parking plots, but this is the first to open for use. It will soon be followed by a similar facility for 800 cars in Sarojini Nagar, also developed by DLF. Date is getting dozens of such proposals, and the Delhi project will be a test, not only for PARI but also for DLF and NDMC to see if this is the right approach to solving the parking problem.

PARI, a little-known company, has served the automotive sector with its industrial automation solutions for over a decade. In 2007, its two founders, Date and Mangesh Kale, decided that being sector-specific wasn't a good idea. The early impact of the downturn on the automotive sector proved them right. In 2008, they decided to build automated parking systems also.

PARI's flagship product, a fully automated parking system, costs half of what is available globally. The system multiplies a land's car parking capacity by 16: If a plot can take 50 cars, the automated system can take 800. But, at Rs. 5 lakh a spot (PARI's cost to build one parking spot), one could argue it's for developers with deep pockets.

Date doesn't agree. It's an infrastructure issue; it's no longer in the realm of economics, but public policy. Centres like Nariman Point and Chhatrapati Shivaji Terminus (formerly, Victoria Terminus) in Mumbai have pockets of land that can be converted into such parking spaces. "It can solve the problem [of parking] overnight," he says. Builders seem to agree: "This is the future," says Pradeep Khanna, director at Bharti Realty, who is considering this solution for old and new properties.

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Car Parking – Complements & News.

Small Beginnings

Outside PARI's five acre campus in Narhe, Pune, that houses 460 of its 960 employees, scores of cars are neatly parked. Doesn't it need an automated parking system for its own use, you wonder?

Inside, several robotic systems are under development. A hydrostatic probe for in-service inspection of steam generators for Nuclear Power Corporation of India is in the final stages of shipment. Next to it is a surgical arm prototype, something like the \$2 million Da Vinci robotic instrument from the US firm Intuitive Surgical. A few feet away stands a hulking nuclear waste disposal system, a smaller version of which is at Mumbai's Bhabha Atomic Research Centre. But, for now, car stackers and the automated parking system is occupying minds and space.

From 1990 when PARI was incorporated, to 1993 when it sold its first industrial robot to Philips, to until 2007, it served the automotive and consumer appliances industry. The likes of General Motors and Honda formed the clientele. In 2007, Date and Kale decided to diversify and decided on automation in car parking and logistics.

By then the company's R&D and manufacturing foundation was already set. In a way, it was the culmination of a long journey for these Pune College of Engineering graduates. These school friends were college buddies at Rensselaer Polytechnic Institute (RPI), New York. The long association is evident when they talk — one takes off from where the other stops. The complementarity — Date is an optimist with a we-can-achieve-anything viewpoint; Kale goes after detail and execution — is deep rooted. That's perhaps the secret behind them visualising a business in the 1980s, when they were students and when the manufacturing world was moving on without much of robotics, and India was focussed on cost.

"We thought if we can make automation cost-effective and pitch it as a disruptive or high-performance tool, it would make for a good business model," says Date. Their time at RPI helped cement the idea. While they were students there, RPI pipped other US engineering schools to win a \$10 million robotics project from NASA. "We learnt a lot from that," remembers Kale.

Applying the learning to their start-up wasn't easy. There was no precedence in India for robotics. "We had to do everything from scratch — design, manufacturing, testing, manpower training. We began with just four engineers," they recall, proudly adding that now they hire 620 graduate engineers. With Rs. 40 crore in private equity investment from Axis Holdings and a Mumbai-based high net worth individual, PARI's 2010 revenue was Rs. 260 crore. It is developing a 73-acre manufacturing unit in Shirwal, near Pune, earmarked as one of the 110 mega projects by the state government.



Image: Vikas Khot

TRACKING OPPORTUNITY Ranjit Date (l) and Mangesh Kale saw infrastructure as a sector that is free from the vagaries of consumer demand

Cracking the Parking Code

All the expertise was put to test when they decided to locally develop a car parking system. "We could have forged a collaboration with an overseas company, but we decided to do it ourselves to keep it cost-effective," says Kale. "It wasn't rocket science, yet it involved some invention and a lot of innovation."

In general, entry-level systems are simple electromechanical ones, assembled as per needs. They, however, need attendants to operate them. Then there are stack systems, which come in packs of nine stacks that allow vehicles to be moved at the push of a button and can accommodate 14 cars. But it's the fully automated system that is catching the imagination of the builders.

Complex algorithms, robotic arms, automation tools, and various sensors ensure that a car driver looking for parking space can take a rest from the survival-of-the-earliest syndrome.

Most of the systems available from multinationals provide similar solutions. So what is the invention here and where does the innovation lie?

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PARKER'S PARADISE?

5 minutes

 Time to park and retrieve a vehicle using PARI's system. (15 minutes to an hour in a standard single- or multi-layered parking in buildings.)

Rs. 50 per hour

 Parking charges, though initial charges in the Connaught Place, Delhi, car park is Rs. 10/hour. (Rs. 20 to Rs. 50 per hour at regular car parks.)

800

 Number of cars that can be accommodated on a plot that would otherwise take 50 cars.

0

 Fuel wastage, since there is no queuing, idling of engines, or slow moving cars looking for empty slots.

Invention is in the combinatorial mathematics that defines the optimal path for the machines and other similar in-built intelligence, says Kale. The innovation, says Date, is in the system's compactness, and hence cost-effectiveness. PARI's technology is 25 percent more space efficient (in the way it uses space for parking) than the alternate international technologies. "None of the conventional mechanisms would allow parking and retrieval in so [little] space." PARI's design is meant to handle very high arrival and departure rates, common in Indian public places.

For reliability, enough redundancy has been designed into the system to ensure that no single failure impacts the customer. "For instance, if one robotic arm fails to retrieve the car, the second one will ensure the job is done. We've reduced the unreliability to statistically impossible levels," says Date.

DLF says it is "quite satisfied with the installation" and is looking forward to using mechanised systems.

Cost versus Price
 For commercial and residential buildings, these systems make much sense. Builders have realised the trade-off between the higher cost of such infrastructure and the eventual price of unhappy customers. "It [trade-off] is pretty good. What does a customer want, comfort?" says Eharti Realty's Khanna. Moreover, builders find the ground coverage getting restricted in many large projects. "At Delhi international airport, [owing to

international standards] I will have to go six basements down. That is more expensive than installing this system."

Even in residential projects, builders think, this could enhance saleability, with families buying more than one car. Awinash Pustake, assistant vice president at Ackruti City in Mumbai, who is evaluating this system for an upcoming luxury project on Mumbai's Peddar Road, says, "This brings value to the building; it costs more [than building a basement or podium-based parking] but saves a lot of

hassles."

Ackruti has installed German and Korean systems in two parking places, one commercial and one public. Pustake thinks a local system scores over imported ones. "Not only is the cost lower, but serviceability is better. Imagine having a broken cable and waiting for a month for a replacement, as it has to be shipped from Germany!"

Anticipating this as key to adoption, PARI has started signing separate contracts for maintenance and operation.

Public parking and transportation will certainly benefit: Free or under-priced parking on roads doesn't add to a city's revenues and affects traffic flow. Urban planning departments "don't yet see this as a problem, it's somewhere low on their priority," says Swati Ramanathan, co-founder of Janaagraha and chairperson of Indian Urban Space Foundation. She thinks urban bodies should look at it as a source of income.

Part of the challenge, says Ramanathan, is the land use if private developers are to be encouraged. Public land, leased to firms, for developing public parking is a viable model. NDMC leased the Connaught Place land to DLF for 30 years and allowed two floors for a shopping complex, which is an incentive. "More participation from the government is expected as such projects are highly capital intensive and are not viable without cross-subsidisation," says DLF spokesperson Sanjey Roy.

Back at PARI's Pune campus, Date shows another prototype, meant for outdoor use — one that can make parallel parking on streets a double-decker system. Yet another parking system?

"In other countries, only some cities are congested, for instance, Paris or New York where parking is a nightmare; but in India, parking is a nationwide problem," says Kale.

This article appeared in Forbes India Magazine of 15 July, 2011

Keywords: Parking, Ranjit Date, Precision Automation and Robotics India, DLF, New Delhi Municipal Council, Mangesh Kale



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Read more: <http://forbesindia.com/article/work-in-progress/theyre-making-car-parking-easier/26472/0#ixzz1w9yNPM1KH>

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The Hindu - Cities / Delhi : Hi-tech parking for Sarojini Nagar

http://www.thehindu.com/news-cities/Delhi/arc1c2617537_e01



News » Cities » Delhi

Hi-tech parking for Sarojini Nagar

Staff Reporter



The Hindu inside view of the newly inaugurated Multi-level Car Parking at Sarojini Nagar in New Delhi. Photo: R.V.Moorthy
Multi-level, automated, open round-the-clock; capacity 824 cars

With the number of privately-owned vehicles in the Capital going up sharply every year, parking has become an issue at every major market place. To address this problem, Delhi got its first automated multi-level car parking lot at the Sarojini Nagar market on Thursday.

Developed in public-private partnership mode between the New Delhi Municipal Council and DLF, the eight-level "South Square" car park was inaugurated jointly by Delhi Chief Minister Sheila Dikshit and Union Minister of Urban Development Kamal Nath. Built at an estimated cost of Rs. 80 crore, the automated parking is expected to ease the parking woes of the busy Sarojini Nagar market with a parking capacity of 824 vehicles. Vehicles will be charged Rs. 10 for the first two hours and then at Rs. 10 for each subsequent hour, up to a maximum of Rs. 40 for a day. The ground and first floors will house retail shops, restaurants and entertainment area and the second to eighth floors will be dedicated for parking.

The automated parking lot has car lifts, pulleys and computerised control systems that would be operational round-the-clock. People can use the parking by buying a 'car park card', drive into the facility and leave the car at the basement, from where it will be automatically taken to the parking area. The parking lot will go through full capacity trials during November and will be opened for public from December 1.

"We hope the parking problems of the city will be solved by 2012 with the commissioning of the automated parking lot at Bala Khasak Singh Marg and the completion of under ground automated parking facility being constructed by DMRC (Delhi Metro Rail Corporation) near Delhi High Court," said Ms. Dikshit. She further mentioned the need for a similar multi-level car parking at the busy Khan Market, and also hoped that the bottlenecks in the construction of an automated parking lot behind Hindustan Times building will be resolved soon.

Mr. Nath exhorted civic agencies like the NDMC and Municipal Corporation of Delhi to take up more projects on the PPP model. "Delhi has been facing the burden of development and progress and a parking facility like this is a much needed step. Challenges such as parking, roads, housing sewage, and water need to be tackled to increase the carrying capacity of Delhi," he said.

Mr. Nath added that the Delhi Master Plan will be revised next year and the "effort is to bring about changes based on the ground situation". He further indicated that the Delhi Special Laws Provision Act will be extended with suitable modifications to safeguard the interests of genuine persons.

The Hindu - Cities / Delhi : Hi-tech parking for Sarojini Nagar

http://www.thehindu.com/news/cities/Delhi/arc1c2617537_e01

Responding to Ms. Dikshit's concerns about availability of land available for parking, Mr. Nath said his Ministry will facilitate "allotment of suitable plots of DDA and L&DO for construction of parking lots in Delhi".

"South Square" will have common space and circulation spaces like access corridors, lift lobby, lighting and fire fighting equipment and toilet facilities. The automated facility also provides state-of-the-art security check and car scanning technologies.

Keywords: hi-tech parking, Sarojini Nagar



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Car Parking – Complements & News.



City's first fully-automatic car parking lot to open in Sarojini Nagar market... <http://www.indianexpress.com>

The screenshot shows a news article from the Indian Express website. The article title is "City's first fully-automatic car parking lot to open in Sarojini Nagar market on Thursday". The article text describes the opening of a new, fully-automatic car parking lot in Sarojini Nagar market, developed by the New Delhi Municipal Council (NDMC) under a public-private partnership with DLF Limited. It mentions that the lot will offer free parking space to shoppers for the first 20 days as a trial. The article also includes a sidebar with "Dissecting" and "More news | Blogs" sections, and a "Let us know by 'tweet'..." section.

City's first fully-automatic car parking lot to open in Sarojini Nagar market on Thursday

Delhi is all set to get its first fully automatic multi-level car parking lot, with Union Urban Development Minister, Kamal Nath, slated to inaugurate the facility at Sarojini Nagar Market on Thursday. Union Sports Minister Ajay Malik and Chief Minister Sheila Dikshit will be present at the opening.

Developed by the New Delhi Municipal Council (NDMC) under public-private partnership with real estate developer DLF Limited for a concession period of 20 years, parking arrangements will be made through "zero human intervention" after the driver leaves his car at the basement level.

While DLF will offer free parking space to shoppers at Sarojini Nagar Market for the first 20 days, as part of a test-trial of the fully automated system, it will start charging Rs 10 per hour thereafter. DLF is letting out commercial space at Rs 200 per square feet.

Under the PPP model, the land in Sarojini Nagar was provided free of cost by the NDMC and the investment for development of the eight-floor structure – Rs 85 crore – was made by DLF. While the ground floor and the first level of the building will provide space for retail and food joints, the basement as well as the rest of the building – from the second floor to the eighth floor – will be reserved for parking.

"At the basement is the arrival concourse, where drivers can leave their cars on a pallet after taking a smart card, complete with car and driver information, from the ticket counter. Cameras will automatically capture the car's number plate," a DLF spokesperson told.

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Multilevel parking lot at BKS Marg finally opened to public

Risha Chittangia, TNN | May 24, 2012, 03:06AM IST

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NEW DELHI: After missing several deadlines, the New Delhi Municipal Council's multilevel parking lot at Baba Kharak Singh (BKS) Marg was opened to public on Tuesday evening.

During the trial run, DLF - the private concessionaire responsible for the construction and operation of the parking lot - has decided to provide parking free of cost. The parking was made operational after NDMC gave the completion certificate on Monday.

"We have made the parking lot operational. On the first day, the retrieval time for all cars was less than three minutes," said DLF spokesperson. The parking capacity at BKS parking lot is of 1408 cars. But on the first day of trial run, close to 70-80 vehicles were parked at the facility. DLF officials say that vehicle load will be gradually increased. This is the second automated multilevel car parking in the city.

According to NDMC officials, "Initially, there were some problems in the parking lot. We wanted DLF to streamline the system and only then make it operational. We are satisfied with the trial run being conducted. The parking rates will be implemented once we are able to streamline the operation."

Like the Sarojini Nagar multilevel parking lot, the first two floors will be for commercial use. But at BKS Marg, NDMC has decided the floors will be given only for office use. "In Sarojini Nagar, we faced stiff resistance from shopkeepers as shops are allowed on the first two floors. At BKS, we have ensure that the space is given only for office use," said an NDMC official.

In the last few years, parking had become a serious problem in Connaught Place due to ongoing redevelopment work. The opening of the parking lot in BKS Marg is likely to ease the parking situation.



<http://timesofindia.indiatimes.com/city/delhi/Multilevel-parking-lot-at-BKS-Marg-finally-opened-to-public/articleshow/13420...> 29-05-2012

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Multi-level parking lots at Sarojini, CP to open by April

Hamari Jamatia Posted online: Fri Jan 14 2011, 22:48 hrs

New Delhi : This summer, people visiting Sarojini Nagar and Connaught Place will not be complaining about lack of parking space. The New Delhi Municipal Council (NDMC) has already constructed multi-level car parking (MLCP) structures at Sarojini Nagar and Baba Kharak Singh Marg, and is scheduled to open them by April.

Though the two MLCPs were to be completed by the Commonwealth Games, the work got delayed due to difficulty in getting clearances. However, by December 2010, the NDMC completed work on a nine-storey MLCP at BKS Marg and a similar eight-storey structure at Sarojini Nagar. In both the facilities, cars will enter through the basement and then be taken up by car lifts as well as other mechanical devices. While the structures took over two years for completion, the installation of the required machinery is expected to be completed in four months.

The MLCP at BKS Marg — with a parking capacity of 1,408 cars — is expected to cater to traffic coming to Connaught Place, Hanuman Mandir and state emporiums on the road. According to NDMC officials, parking a car as well as taking it out will take less than a minute. While driving the vehicle in, motorists will be given a slip bearing a unique identification number.

At present, installation work is being carried out by DLF, which is building the two parking lots on build-operate-transfer (BOT) basis. NDMC spokesperson Anand Tiwari said though the rates have currently been fixed at Rs 10 per hour, the authorities are yet to decide if the parking facility should be kept open on a round-the-clock basis. "These are some operational details that have to be sorted out before the parking facility is opened to the public," he said. The automated parking facilities will have car lifts, pallets and computerised control systems.

The MLCP at Sarojini Nagar will be able to accommodate 824 vehicles.

Though a third facility was to come up on Kasturba Gandhi Marg, the project is yet to see the light of the day. The site was cleared in December 2009, but work came to a standstill after the Archaeological Survey of India denied permission — pointing out that the heritage monument, Agrasen ki Baoli, is located just 300 metres from the spot. The 6,219-sq ft parking lot was supposed to hold 1,582 cars.

The plan to build three multi-level parking lots, for solving parking-related issues in the Capital, was floated in 2007.

BKS Marg parking at CP to open in June

The screenshot shows a news article from Deccan Herald. At the top, there is a navigation bar with links for Home, News, New Delhi, Business, Supplements, Sports, and IPL. Below the navigation bar, there is a search bar and a date stamp: "Tuesday 23 May 2012 News updated at 2:15 AM IST". The main headline of the article is "BKS Marg parking at CP to open in June". The article text includes: "Visited Kar, New Delhi, May 23, 2012, DINI: Parking woes for motorists at Connaught Place may soon come to an end as the much-awaited automated multi-level parking at Baba Kharak Singh Marg will be thrown open to public from the first week of June." It also mentions that the New Delhi Municipal Council (NDMC) sources said the public trial of the multi-level parking began on Wednesday and it will formally be inaugurated next month. The article further states that the NDMC had already given clearance to the parking facility, that the independent engineer DMITS also gave their provisional clearance on Saturday, and that while the trial has been going on for months, the builders have also been advised to open it for public trial. After 10 days of trial, it will be opened in the first week next month, according to a senior NDMC official. The article also notes that after the Sarojini Nagar automated parking, Baba Kharak Singh Marg parking, which is second of its kind, has nine floors with the ground and first floors reserved for commercial purpose and the rest for parking. It has a parking capacity of 1,408 vehicles. However, 150 slots would be reserved for in-house users. The automated parking will have car lifts, pallets, computerised control systems which would be operational round the clock. NDMC sources said efforts to prevent the technical glitches witnessed at the Sarojini Nagar parking delayed its opening. The technology used for parking and retrieval of cars is similar to the one used at Sarojini Nagar. Therefore, an extended trial has been conducted at the parking facility, according to NDMC official. The officials also said that the developers would be allowed to use the commercial space only after the parking facility is found to be satisfactory. It has been developed on a public-private partnership model by NDMC and major real estate DLF.

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Car Parking – Complements & News.

THE  HINDU

Date:17/12/2007 URL: <http://www.thehindu.com/2007/12/17/stories/2007121758770300.htm>

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[New Delhi](#)

Multi-level parking project at Sarojini Nagar inaugurated

Staff Reporter

20 % commercial use in such lots to be allowed: Ajay Maken

Of the 16 sites identified for such parking lots, three fall in the NDMC area

Sarojini Nagar parking to accommodate 824 cars in seven floors

He also said that 20 per cent commercial use will be allowed in these multi-level parking lots to serve as an incentive to the private developer.

Referring to the Master Plan he informed that altogether 16 sites had been identified for development of such parking lots, of which three fell in the NDMC area.

He elaborated that apart from this, the Master Plan also provided for a person having 1000 sq m to propose and construct a multi-level parking. Even in existing parks, under ground multi-level parking could be constructed, Mr. Maken said.

This multi-level parking at Sarojini Nagar would accommodate 824 cars spread over seven floors starting from the second floor upwards.

The ground and the first floor would be utilised as commercial and retail area and a single basement in the building will act as a concourse for entry and exit of vehicles.

DLF will design, finance, construct and operate the parking project at an estimated cost of Rs. 80 crore. The building to be completed in 30 months by DLF will be constructed on build-operate-transfer basis having a concession period of 30 years. The NDMC will be getting Rs 15 lakh per annum for the project as concession fee, according to the DLF Group.

Automated parking

DLF has proposed to employ automated car parking technology in the project which will help in maximum utilisation of space and better workability for the project. According to DLF, the project will allow parking of more cars within a given area compared to manual parking system.

Chairman NDMC Parimal Rai, MLA and Vice-Chairpersons NDMC Tajdar Babar and MLA and Member NDMC Ashok Ahuja and several senior DLF officials were also present on the occasion.

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www.hindu.com/thehindu/thscrip/print.n?file=2007121758770300.htm&date=20071217/&prb=tdk

29-05-2012

NEW DELHI: After the inauguration of multi-level car parking at Baba Kharak Singh Marg earlier this month, the New Delhi Municipal Council and DLF formally inaugurated the second multi-level parking at Sarojini Nagar here on Sunday.

The laying of the foundation stone was done by Minister of State for Urban Development Ajay Maken.

After laying the stone, Mr. Maken said that the proposed multi-level parking would fall under the scheme of developing parking spaces through private participation as enumerated in the city's new Master Plan.

The Minister was hopeful that it would go a long way in solving the problems of the shop owners in the market, the visitors and the residents of the area.

www.hindu.com/thehindu/thscrip/print.n?file=2007121758770300.htm&date=20071217/&prb=tdk

29-05-2012

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Car Parking – CUSTOMER FEEDBACKS.



PARI		Title	Customer Feedback	Format No	RS/PRI/14
Classification		Reference - Format		Version No	1
				Revision No	0
				Effective Date	1-Sep-10
				Page No	1 of 1
Customer Name: LAPP INDIA PVT LTD			Location: BANGALORE		
Points related to Sales Process					
1	Understanding of RQ / Requirements specified.	<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
2	Technical inputs by PARI in Pre-sale Process.	<input checked="" type="checkbox"/> 100-75%	<input type="checkbox"/> 75-50%	<input type="checkbox"/> < 50%	
3	Timely submission of offer.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
4	Offer quality (including detailing with proposal).	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
5	Commercial Viability of Proposal.	<input type="checkbox"/> 100-75%	<input checked="" type="checkbox"/> 75-50%	<input type="checkbox"/> < 50%	
6	Marketing Team Response During Project Execution.	<input type="checkbox"/> 100-75%	<input checked="" type="checkbox"/> 75-50%	<input type="checkbox"/> < 50%	
7	Marketing Team ownership of System Performance.	<input checked="" type="checkbox"/> 100-75%	<input checked="" type="checkbox"/> 75-50%	<input type="checkbox"/> < 50%	
8	Marketing Team Response for After Sales & Service Support.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
9	Recommendation of PARI for repeat Orders.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Points related to Project Execution Process					
10	Communication & Status Transparency.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
11	Engineering & Technical Performance.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
12	Schedule Management & Timeliness.	<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
13	Unaccounted additional costs / Investments required from customer.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
14	Management of Issues & Changes.	<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
15	Team's ownership for System Performance.	<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
16	System Performance - Availability.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
17	System Performance - Reliability.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
18	Benefit Derived from System Use.	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Need Improvement	
Other Remarks, if any:					
<p>LAPP INDIA PVT. LTD. Plot No. 98, J & K, Jigani Industrial Area, IInd Phase, Anekal Taluk, Bangalore - 560 105.</p>				Signate: Name: L. ANIL K. REDDY Feedback given by Customer Person	

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Car Parking – CUSTOMER FEEDBACKS.



	Title	Customer Feedback	Formal No	FFB/MKT/24
	Classification	Reference - Format	Version No	1
			Revision No	0
			Effective Date	1-Sep-17
			Page No	1 of 1
Customer Name: SRDGADE ENTERPRISES LIMITED			Location: BANGALORE	
Points related to Sales Process				
1	Understanding of RFQ / Requirements specified.	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
2	Technical inputs by PARI in Pre-sale Process.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
3	Timely submission of offer.	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
4	Offer quality (Having detailing with proposal).	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
5	Commercial Viability of Proposal.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
6	Marketing Team Response During Project Execution.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
7	Marketing Team ownership of System Performance.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
8	Marketing Team Response for After Sales & Service Support.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
9	Recommendation of PARI for repeat Orders.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Points related to Project Execution Process				
10	Communication & Status Transparency.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
11	Engineering & Technical Performance.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
12	Schedule Management & Timeliness.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
13	Unexpected additional costs / investments required from customer.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14	Management of Issues & Changes.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
15	Team's ownership for System Performance.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
16	System Performance - Functionality.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
17	System Performance - Reliability.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
18	Benefit Derived from System Use.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
Other Remarks, if any:				
		Signature: <i>[Signature]</i>		
		Name: P. Vasudeva S		
		Feedback given by Customer Person		



	Title	Customer Feedback	Formal No	FFB/MKT/14
	Classification	Reference - Format	Version No	1
			Revision No	0
			Effective Date	1-Sep-17
			Page No	1 of 1
Customer Name: MANIPAL CENTRE OWNERS ASSOCIATION			Location: BANGALORE	
Points related to Sales Process				
1	Understanding of RFQ / Requirements specified.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
2	Technical inputs by PARI in Pre-sale Process.	<input type="checkbox"/> 100-75% <input checked="" type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
3	Timely submission of offer.	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
4	Offer quality (Having detailing with proposal).	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
5	Commercial Viability of Proposal.	<input type="checkbox"/> 100-75% <input checked="" type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
6	Marketing Team Response During Project Execution.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
7	Marketing Team ownership of System Performance.	<input checked="" type="checkbox"/> 100-75% <input type="checkbox"/> 75-50% <input type="checkbox"/> < 50%		
8	Marketing Team Response for After Sales & Service Support.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
9	Recommendation of PARI for repeat Orders.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Points related to Project Execution Process				
10	Communication & Status Transparency.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
11	Engineering & Technical Performance.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
12	Schedule Management & Timeliness.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
13	Unexpected additional costs / investments required from customer.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14	Management of Issues & Changes.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
15	Team's ownership for System Performance.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
16	System Performance - Functionality.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
17	System Performance - Reliability.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
18	Benefit Derived from System Use.	<input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Need Improvement		
Other Remarks, if any:				
		Signature: <i>[Signature]</i>		
		Name: P. VASO		
		Feedback given by Customer Person		



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Car Parking – CUSTOMER FEEDBACKS.



SOUTH SQUARE		CUSTOMER COMMENTS (8 January - 25 March)			DLFA
DATE	CUSTOMER NAME	CONTACT NO	COMMENTS	Type	
08-01-2012	Harpreet Singh	Nil	I like it	Positive	
	jitendra singh	9911916008	Nice technology	Positive	
	ajay chand	Nil	Nice arrangement	Positive	
	Kuldeep Singh	9650818134	Nice	Positive	
	Ashok Dahiya	Nil	Its Fine	Positive	
	Richa sinha	Nil	good utility more of these should be made	Positive	
	Dharmendra sharma	9871287115	excellent	Positive	
	Preeti	9810528296	excellent & nice parking	Positive	
	Archit	9810025794	nice technology	Positive	
	Ujjwal	Nil	Very comfort & good service	Positive	
	Shaiwal	9871214368	good technology	Positive	
	Satish bhagan	9818123323	good system but time should be more less	Positive	
	Kapil	9711119973	very good concept must for whole country	Positive	
	Arun Gyupta	Nil	Very time consuming lot of peoples is worried while waiting needs lot of improvement in handling.	Negative	
	Vinit Sehgal	Nil	Very good, waiting time for parking is very long.	Positive	
	Amit Sarkar	9711328228	Very organised and systematic however the waiting time at entry too long. Good luck!	Positive	
	Dr. Neha Jain	Nil	Very organised and well planned parking, I wish all marketing places at delhi have this parking.	Positive	
	Mohit	9871828184	Excellent service.	Positive	
09.01.2012	Satish Gupta	9312215958	Excellent, Thanks.	Positive	
	Atul Mathur	9891162058	10 mins. To check in & 15 mins. Still waiting who will park in this facility.	Negative	
	Sandeep Kaur	9811709251	Good service, but people have parked their cars due to the payment to be made, Very good service courteous & helpful.	Positive	
	Nipun Mangal	9654102424	Awesome concept & well executed.	Positive	
	V. A. Pashi	9213229594	Good experience	Positive	
12.01.2012	Sushil	9311807071	Good Service & experience, Good luck!	Positive	
	Vikarant Yadav	9811021380	Very good service but time consuming.	Positive	
	Deepak Gupta	9871689996	Good & fast service. Great!	Positive	
	Vidhu Gupta	Nil	Awesome really impressive.	Positive	
13.01.2012	Kaushik	Nil	Wonderful & awesome experience.	Positive	
	Karan Arora	9958000962	World class smiling faces ever so helpful.	Positive	
	Nil	9717178078	Nice service, keep it up	Positive	
14.01.2012	Rahul	9811622681	Very good, take care	Positive	
	K.K. Dewon	26851178	It is really advance parking as well managed parking area, keep it up	Positive	
	Amit Sharma	9871911053	Excellent arrangement cars are safe	Positive	
	Ajan Sen	9212508132	Very good	Positive	
	Manoj	9871555260	Great job excellent, keep it up	Positive	
15.01.2012	Ashok Mehta	9958199417	Very nice parking arrangements.	Positive	
	Sunil	8527317850	Great service, nice keep it up	Positive	
	Sumit Sharma	9818819696	Great experience, Excellent	Positive	
	Mohan Lal	9810625178	Excellent job, try to maintain the minimum time for retrieval.	Positive	
	Ankur	7827357315	Good	Positive	
17.01.2012	Surbhi Gupta	9868287727	Good, but keep more customers friendly means lots of hand to put in the parking and get it back, difficult for old & bones pain peoples.	Positive	

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Car Parking – CUSTOMER FEEDBACKS.



18.01.2012	P. Mathur	9899042502	Very good parking, systematic parking.	Positive
	K.k. Bhardwaj	9868129815	Approach of staff & behaviour is excellent.	Positive
21.01.2012	Palash Malik	9717699600	As per your policy that retrieving for luggage's is not possible, I would recommend that all this should stop, you need have a procedure where in which you need have this facility, Thank you!	Suggestion
	Jasjeet	Nil	Great service real good proud to see this in India.	Positive
	Arun Kumar	9990990767	Good service	Positive
	Ankita Arora	9811342890	Excellent service & mind blowing ideas & amazing process, heads off !	Positive
22.01.2012	Vijay	9811783062	Excellent service at retrieval room.	Positive
	Shankar Vihar	8860152387	It is an excellent idea but parking in & retrieval time is too long.	Positive
	S.B. Aggarwal	9250550016	Very impressive arrangements staff very co operative.	Positive
	Krishna	9312385106	Co operative staff	Positive
	V. P. Choudhary	9811302497	Appreciated system	Positive
	Sarvinder	9717177355	The concept is excellent perfect utilization of space 10/10.	Positive
22.01.2012	Shruti Gupta	9899686986	Good but little time taking.	Positive
	Rahul Godwani	9818279346	Good but waiting time for parking is very much.	Positive
24.01.2012	Sidharth Goel	9990862839	Fine service, good concept.	Positive
	R.S. Sehwat	9818794323	Wonderful	Positive
28.01.2012	Saroj Jha	9810867938	It is very good	Positive
	Vinit Dongra	9810064090	Absolutely great, we need more of them in delhi, great value for money.	Positive
			Adventurous people must get use too, good facility.	Positive
	Udit Anand		Excellent work & perfect service	Positive
	Gautam	Nil	Very excellent work done and try to maintain it	Positive
29.01.2012	Sanjay Mishra	9810231763	Good	Positive
	R. Bishwash	9968299567	Excellent	Positive
	H.S. Vridhi	9868732262	Good, thanks	Positive
	S. Goswami	9717896967	Excellent	Positive
	Rajesh Ahuja	9015075490	Excellent	Positive
	Sunil Gupta	8826181098	Good	Positive
	Amav	9582858061	Good	Positive
	Sneha		Excellent, well done	Positive
	Shailendra Kumar	9711770728	Bakwaas	Negative
	Misha Sharma	9818203006	Best thing that and happened to Sarojini Nagar.	Positive
	N.S. Negi	9818637433	Good use of space, good work	Positive
		97176358208	Waiting time is more at entrance, needs to be more efficient to develop among people to use it.	Positive
	Vijay Rajput	9811856040	Excellent setup	Positive
	Yogendra Sharma	9811987777	Fantastic setup, nice experience	Positive
	Nitin Sharma	9899422772	Nice setup and good facility	Positive
	Rahul	9324612905	Quick in the services as it takes too long getting a spot.	Negative
31.01.2012	Dr. Ashish		Excellent setup, Delhi need to do more such setup.	Positive
02.02.2012	Rupesh Ratra		Mast hai.	Positive
	Dilip Kumar	9810669130	Parking system is good as in Paris, keep it up and maintain it.	Positive

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Car Parking – CUSTOMER FEEDBACKS.

03.02.2012	Rakesh	9891116108	Nice	Positive
	Mehu Agarwal	7838329896	Nice parking system	Positive
	Powells	9960132766	Awesome	Positive
	Gourav	8826919321	All new parking system	Positive
	K. Ramakrishnan	9810754803	Very nice parking keep it up	Positive
	Rajshree	NIL	Innovative	Positive
	Prachi	9899496771	New system amazing parking oops	Positive
	Mayank Powell	9971796459	Very nice & specious parking with good style	Positive
04.02.2012	A. Sinha	9015676181	Very efficient service	Positive
	Sourav Singh	9818479405	Very reliable as well as drivers friendly, keep the good work up	Positive
	Anuradha	9818079104	Fantabulous	Positive
	Pratik Soni	9953177628	Extremely slow retrieval time not managed properly.	Positive
05.02.2012	Kamal Saini	9810250488	Very good	Positive
	Kedar Gunjkar	nil	Very good service reasonable price and safe for cars	Positive
	Indra	9654005151	This have impressed.	Positive
	R.C. Joshi	9968090485	Excellent, world class	Positive
07.02.2012	A. K. Gupta	9810478599	Excellent	Positive
08.02.2012	Vikas	9911522154	I love service care system	Positive
	Ajay	9313611111	Excellent service	Positive
14-02-2012	Pawan Kumar	9765567023	Good to see such a nice parking area built in Delhi after such a long time	Positive
14-02-2012	M.F Khan	Nil	seen first time, nice.	Positive
15-02-2012	Sudip Sen	Nil	its something awesome that can happen in delimit should have been done 10 yrs back	Positive
15-02-2012	Sudha Sharma	Nil	This is such a wonderful parking in son area for us, we were waiting for it for a long time.	Positive
17-02-2012	Lavit	9871303038	Very good I cant explain	Positive
17-02-2012	Vasu	9899193655	Good options & services	Positive
17-02-2012	KK	931212746	good	Positive
18-02-2012	Shiv	987336255	Good Service	Positive
18-02-2012	Tarun	9899922261	Excellent stay & good experience to visit. keep it going	Positive
18-02-2012	Ashok Kumar	Nil	Excellent thought & good service	Positive
18-02-2012	Naveen Khandan	Nil	Excellent	Positive
18-02-2012	Kallol Mahalanabis	Nil	Absolutely Fantastic	Positive
19-02-2012	Shivangi Tripathi	Nil	very innovative, an excellent & highly relevant	Positive
19-02-2012	Megha	Nil	very well implemented	Positive
19-02-2012	Piyush	Nil	Need quicker service	Negative
19-02-2012	J.P singh	Nil	Good Service	Positive
19-02-2012	Yogesh Saini	9810085905	Simply Fantastic	Positive
19-02-2012	Major Brijesh Thapa	Nil	impressed keep it up	Positive
19-02-2012	Ashish Dalal	Nil	very good job. need more in Delhi	Positive
19-02-2012	Kamal shah	9999984363	very good. good idea	Positive
21-02-2012	Kapil	9910081587	Nice service keep it up	Positive
21-02-2012	Gaurv sharma	9871941199	hope more will opened in Delhi	Positive
21-02-2012	Dr.sumit	9891545401	good 1	Positive
22-02-2012	anuj	9990964328	keep it up	Positive
24-02-2012	Ankur Rajput	Nil	awesome inventories & creativity	Positive
24-02-2012	akhilsh raj	9810256168	Excellent	Positive

Car Parking – CUSTOMER FEEDBACKS.



24-02-2012	Mohit Arora	9582162982	Very affordable & safe	Positive
24-02-2012	Vishal Bachaani	9891157557	Banger hay	Negative
24-02-2012	Rohit Seth	9910184646	Keep up the good work	Positive
24-02-2012	brijesh kumar	9582393117	excellent performance	Positive
25-02-2012	Amit sawhney	8800445979	Superb. keep it up	Positive
25-02-2012	aswani dixit	9560021919	excellent experience	Positive
25-02-2012	Nikhil	9810500028	very safe & affordable	Positive
26-02-2012	K.S Verma	9818798872	Thanks	Positive
26-02-2012	Gaurav khattar	9013072478	Really nice, manner to serve	Positive
26-02-2012	saukat	9818800525	Awesome management	Positive
26-02-2012	Deepak Sharma	9990391180	Very good	Positive
26-02-2012	Pravin	8860256379	awesome	Positive
26-02-2012	Rajat	9811160098	it was a very nice experience	Positive
26-02-2012	K.K sehgal	26123707	very good system name must stop parking around market	Positive
26-02-2012	M.Parekh	Nil	Very expensive	Negative
28-02-2012	Varun manocha	9811347889	excellent parking facility	Positive
29-02-2012	Manish Kapoor	9868335925	Total time waste	Negative
29-02-2012	Mohan Das	9868908689	Excellent	Positive
29-02-2012	amit khurana	9213171544	Excellent	Positive
29-02-2012	Manoj soni	981807441	Time saviung.excellent	Positive
01-03-2012	Ruchi mishra	9810877079	wow	Positive
01-03-2012	Satish	9810521013	Excellent	Positive
02-03-2012	Rajeev sinha	9999880680	Excellent	Positive
02-03-2012	Raj kumar	9818899486	Brilliant	Positive
03-03-2012	Sumeet Rajpal	9960534040	Excellent Service	Positive
03-03-2012	Vivek Singh	9818181399	Excellent	Positive
03-03-2012	Ruby Khurana	9268170306	Mast.....	Positive
03-03-2012	R.L Joshi	9968090485	Mast hai.	Positive
03-03-2012	Rohan Sobti	9818884408	Awesome	Positive
03-03-2012	Mingma Sherpa	9891492049	Very nice good job to NDMC	Positive
04-03-2012	kunal prasad	9810066355	Excellent Service	Positive
04-03-2012	Pradeep Sarmar	9911868029	Good	Positive
04-03-2012	Sunil bhau	9868135690	Another Great Experience after Delhi Metro . Jiao Delhi jay	Positive
04-03-2012	Col Sai Arul	9868852277	The waiting time for retrieval is excessive .	Negative
04-03-2012	Shubham	9873986489	Waiting time is long but facility in this kind of market is good .make waiting time less. Thanks	Positive
04-03-2012	Birender Govil	9910377861	Excellent System	Positive
04-03-2012	Satish Dedhwal		Very good Service	Positive
04-03-2012	Anuraag Chouhan	9811088014	Very nice & well kept	Positive
05-03-2012	Manita Dhawan		Very good experience on a Monday don't know about rush days	Positive
05-03-2012	Nagesh		Good & keep it up	Positive
07-03-2012	D.Mair		Good	Positive
07-03-2012	Sharad C. Mohan		Good experience & Such friendly Staff ! ! Shall always park her whenever visit SN	Positive
08-03-2012	Sneha		Great Service	Positive
09-03-2012	Vidisha		Very nice Service	Positive
09-03-2012	Ajay		Very nice Service	Positive

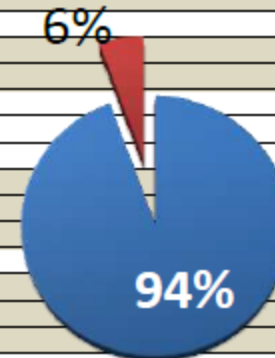
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Car Parking – CUSTOMER FEEDBACKS.

10-03-2012	Anurag Singh		Quality of Service is very good .	Positive
10-03-2012	Monu		thank you for the world class service	Positive
10-03-2012	Birender Singh		Very good Service	Positive
10-03-2012	Mitika Bhasin		Appropriate	Positive
10-03-2012	Aman Anand	9999303303	Good to see Delhi Progressing	Positive
10-03-2012	Anurag Singh	9971012878	Very good keep it up	Positive
11-03-2012	Soran Bansal		Great facility	Positive
11-03-2012	Kalyan		very good facility employees are friendly	Positive
11-03-2012	Ankit Mittal		good service	Positive
11-03-2012	Manish Bhardwaj		first experience its great!!	Positive
11-03-2012	Sumeet Sharma		Employee is great	Positive
12-03-2012	Aldas		good , but time consuming	Positive
12-03-2012	vipin		make it little faster	Positive
13-03-2012	lachman dass		Very nice Service	Positive
15-03-2012	sahil		excellent service	Positive
16-03-2012	bharat bhushan	9718962804	nice &peaceful	Positive
16-03-2012	preity	9999756039	its is amazing , wonderful good & keep it up	Positive
17-03-2012	vipin	97118770998	Very good Service	Positive
17-03-2012	preity		great parking, great service	Positive
17-03-2012	rajesh yadev	9560954021	service seems to be good, at this moment, need to maintain the for long	Positive
20-03-2012	monika	9013447529	awesome service by whole staff of parking, keep it up	Positive
20-03-2012	rajni		greet employs	Positive
20-03-2012	ravish		i had never see this type of quality staffs. Parking staffs are too good.	Positive
21-03-2012	yogesh	9810281915	access/approach is blocked by locals. please change signage's.	Negative
25-03-2012	aditya kaushil	9910291102	Superb. Transforming India.	Positive
25-03-2012	anish bura	9873630094	amazing concept but maintain these rate over the period.	Positive
25-03-2012	Gaurav kalra		too much of waiting. my parking time was more than my driving time	Negative

Wow !!! Great Parking



Positive Feedbacks			186
Negative Feedbacks			11
TOTAL			197

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Car Parking – Awards Received.



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Thank you...

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