

# AUTUMN

COLLECTION 2020

SCRATCH RESISTANT FLOOR TILES







\*with reference to test reports shown in

# **OBL** Awards & Accolades

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# Go germfree with Orientbell Tiles.

# Forever Tiles are Germfree\*!



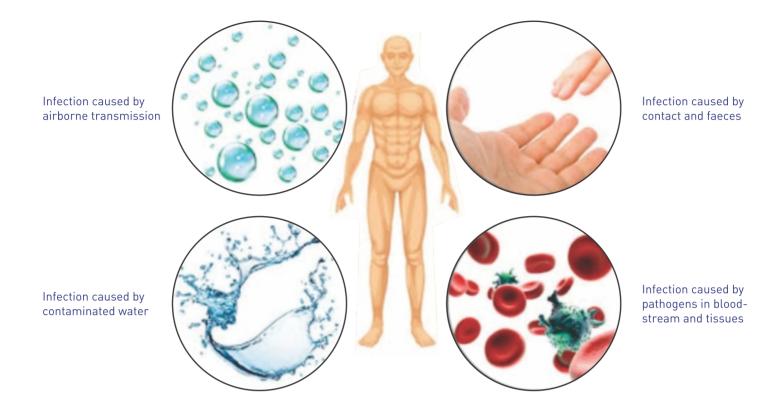
## **Forever Tiles**

- 1. High Compact Sintered Body With Low Water Absorption
- 2. Special FT Glaze With Engobe & 2 Glaze Coatings
- 3. High Resolution Special FT Print
- 4. Special Formulated High Resistance FT Coating

## Orientbell's Scratch Resistant Range-

In offices, gymnasiums, airports and similar high traffic areas prone to rough use, scratch and abrasion resistance is desired. Orientbell's Forever Tiles are developed with such applications in mind. Orientbell has applied for a patent for corundum based coating composition as well as its method of applying it on the tiles.

# THE MECHANISM OF INFECTION



# CONTAINMENT IS THE KEY TO PREVENTION OF PANDEMIC

A few proven ways for containment



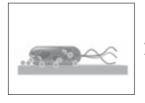
**HAND SANITIZERS**: Chemicals / thermal treatment / radiation to kill microbes on the hand



**MASS AREA SANITIZERS :** Chemical / thermal treatment / Radiation treatment (UV / IR) / static electrical shock to prevent the growth of microbial population in particular area.



**MASK AND OTHER PPEs:** Special kind of masks / gloves / body suits that stop transmission of virus to the human body.



**ANTI-MICROBIAL SURFACE:** This is a special surface which kills the microbe that come into its contact and prevents transmission to the next person.

Yamada, H (2010). "Direct Observation and Analysis of Bacterial Growth on an Antimicrobial Surface". Appl. Environ. Microbiol. 76 (16): 5409–5414.

<sup>-&</sup>quot;Disinfection & Sterilization Guidelines". Guidelines Library: Infection Control. CDC. 28 December 2016. Archived from the original on 12 January 2018. https://www.livescience.com/face-mask-new-coronavirus.html

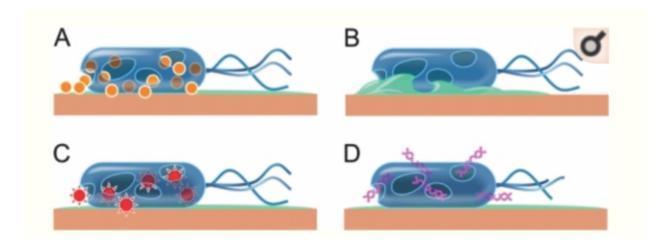
# ADVANTAGES OF ANTI-MICROBIAL SURFACES AGAINST OTHER METHODS OF CONTAINMENT

	Hand sanitizers and mass area sanitizers	Mask and other PPEs	Anti-microbial Surface
Independent of Human actions	Х	X	Υ
Independent of behavioral compliance	X	X	Υ
Uniformity of effectiveness	X	X	Υ
Works 24x7	X	X	Y
Continuously and actively kills Microbes	X	X	Y
Requires frequent ordering and stocking	Υ	Υ	N
Result →	Dependent on Ma	Kills microbes even between cleanings	

It is very important to reduce the microbe population, if possible to completely kill those while it is waiting on the surface for indirect transmission. Here an anti-microbial chemical treated surface will come to help resolve the issue. The other methods of killing or preventing transmission of microbes may still be used in conjunction with the anti-microbial surface.

# **HOW DOES A GERM FREE SURFACE WORK**

- A: Nano Particles from Germ Free Surface interact with microbe and cause cells damage
- B: The cell membrane ruptures because of nano particles leading to loss of cytoplasmic content
- C: Nano particles ions induce reactive oxygen generation which further causes cell damage
- D: Genomic and Plasmid DNA becomes degraded



Depiction of tentative events in contact killing\*

\*ncbi.nlm.nih.gov/pmc/articles/PMC3067274/

Anti-microbial surfaces only restrict indirect transmission, and do not reduce the risk of direct transmission of any infection. The methods to restrict/prevent direct transmission, as advised by the relevant Health Authorities, must be followed.

# TYPES OF ANTI-MICROBIAL SURFACE

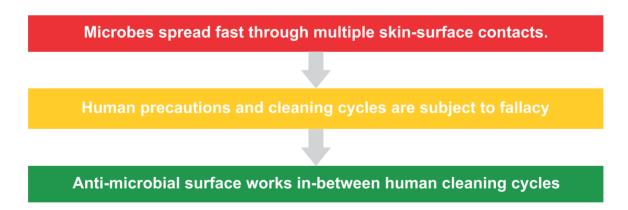
As per a survey of industrially available technologies done globally there is a combination of surface coatings explored worldwide. The surface coatings

- with nano-embedded particles in organic matrix less durable
- with nano-embedded particles in inorganic matrix more durable



OBL tiles contain nano-particle embedded inorganic coatings. These are more durable because of their inherent capability to withstand weathering and consequential damage.

# **IN SUMMARY**



Anti-microbial surfaces only restrict indirect transmission, and do not reduce the risk of direct transmission of any infection. The methods to restrict/prevent direct transmission, as advised by the relevant Health Authorities, must be followed.







Listed on BSE (530365) for 20+ years. And also on NSE (ORIENTBELL).







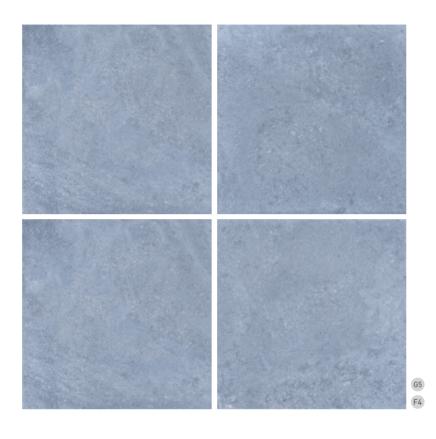




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GFT BDF CEMENTO DK BLUE





GFT BDF CEMENTO LT BLUE













GFT BDF RUSTIC NATURAL BROWN

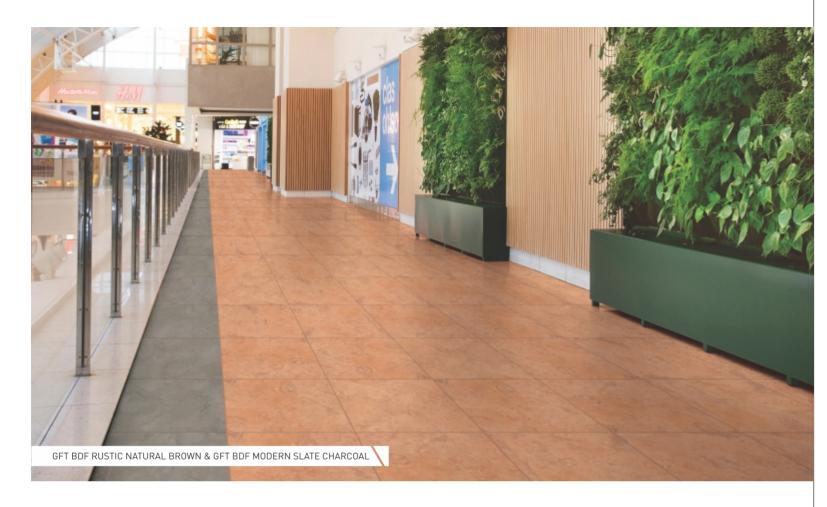




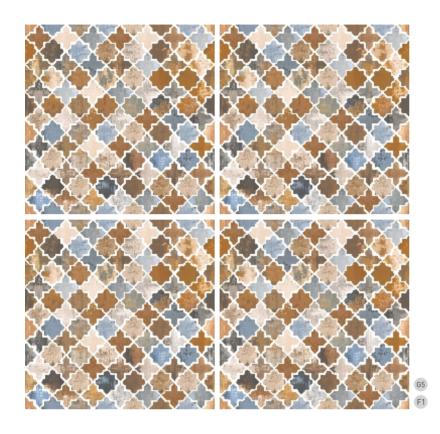
GFT BDF MODERN SLATE CHARCOAL





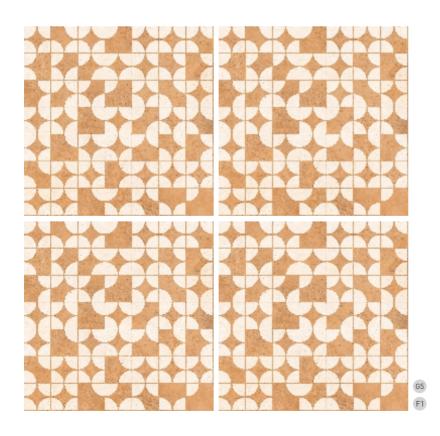








GFT BDF ARABESQUE MULTI





GFT BDF GEOMETRIC BROWN



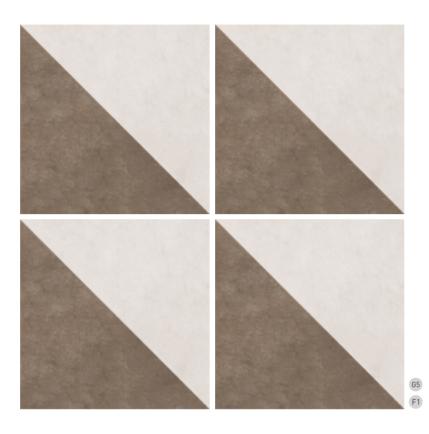






600x600 MM

STYLIZED





GFT BDF RUSTIC TRIANGLE COFFEE



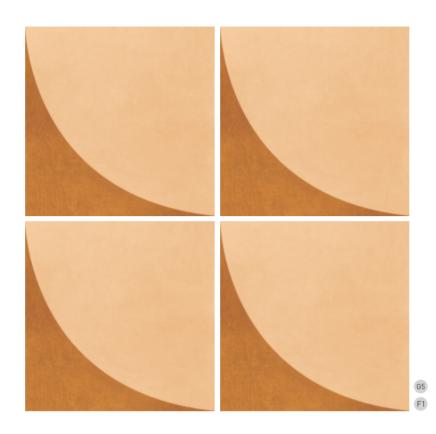






600x600 MM

STYLIZED



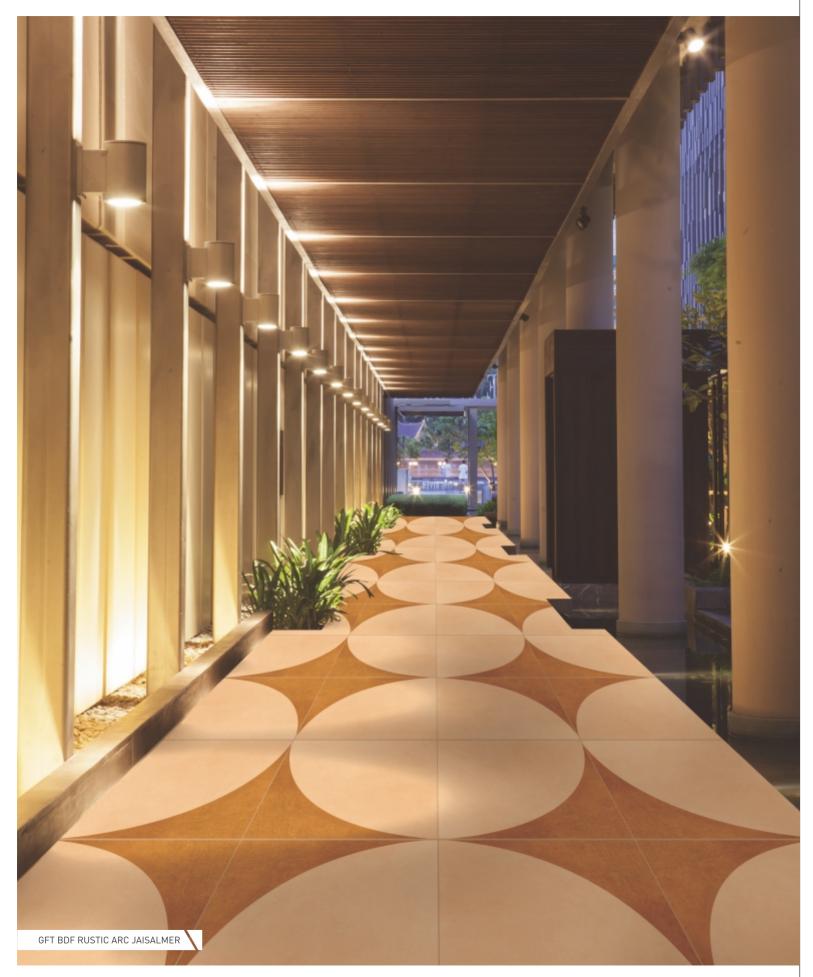


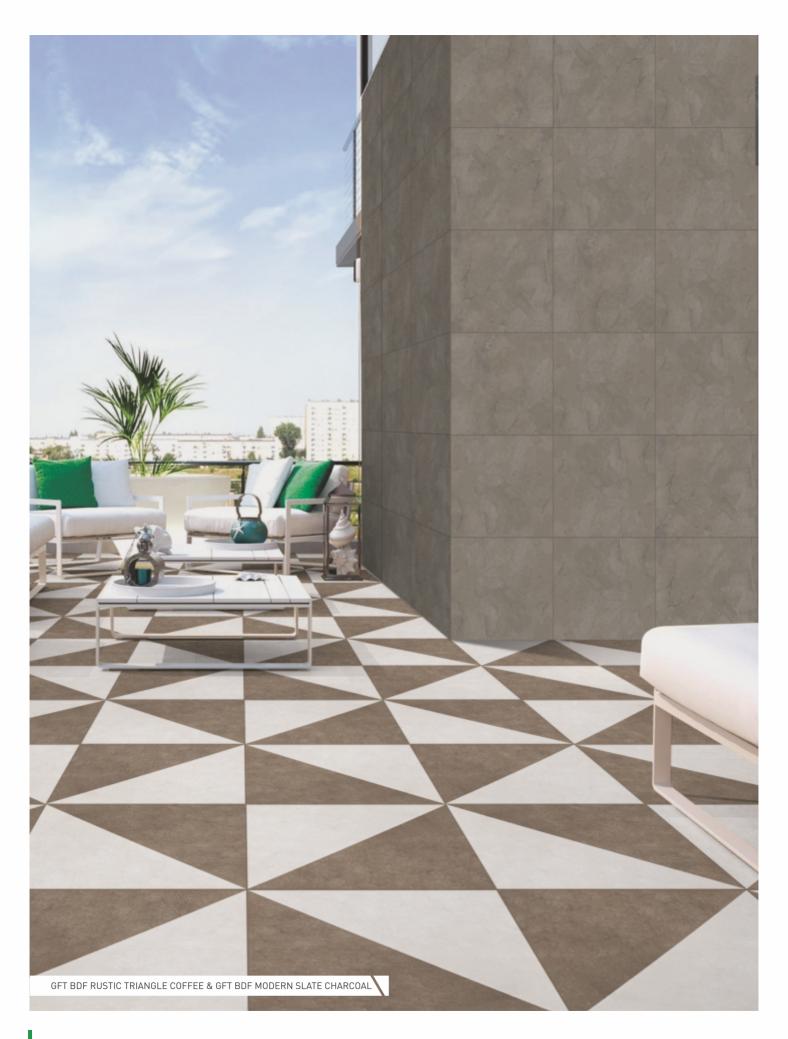
GFT BDF RUSTIC ARC JAISALMER







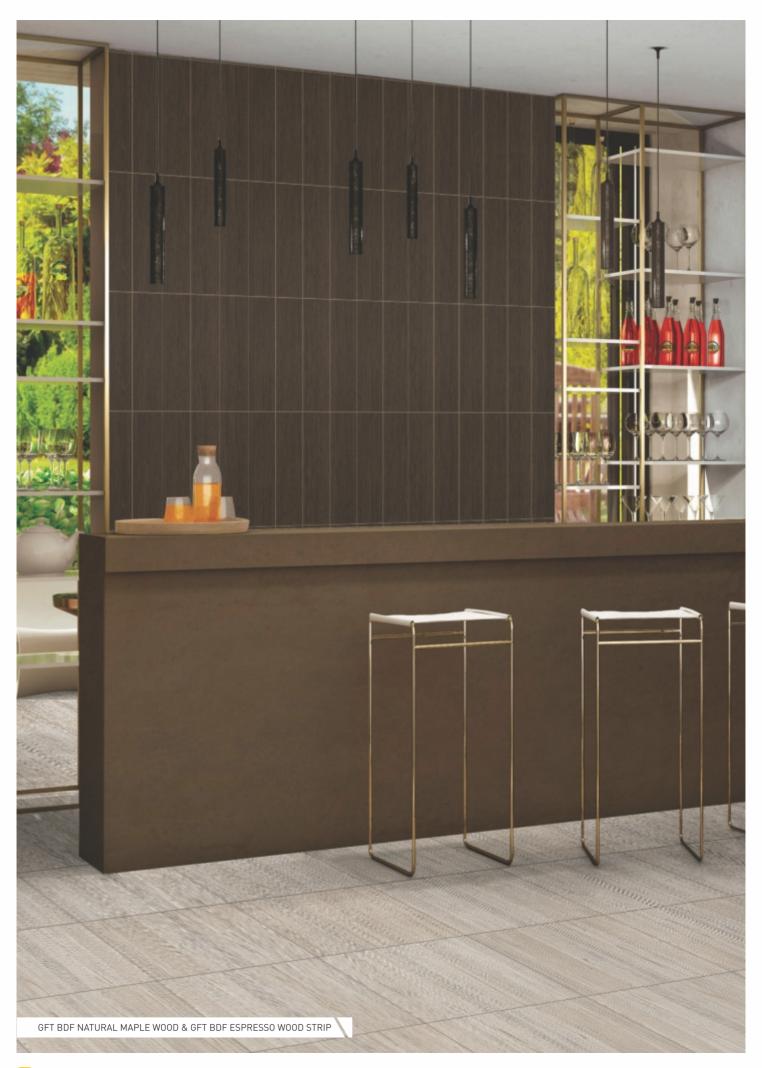


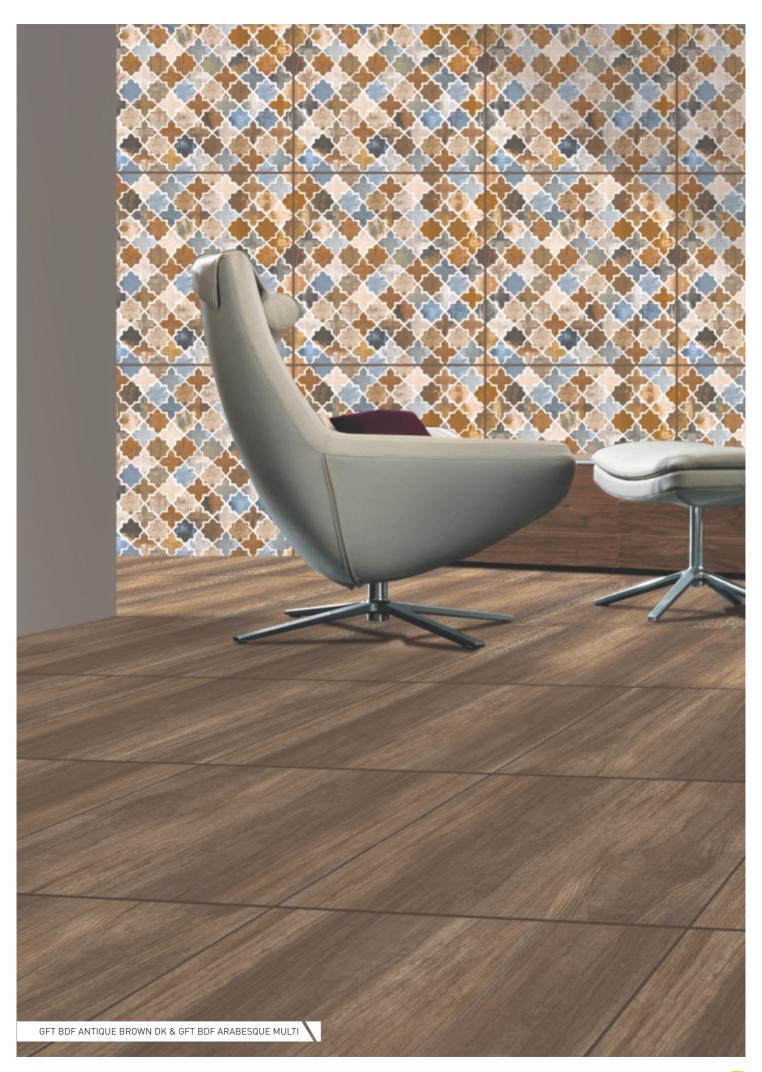


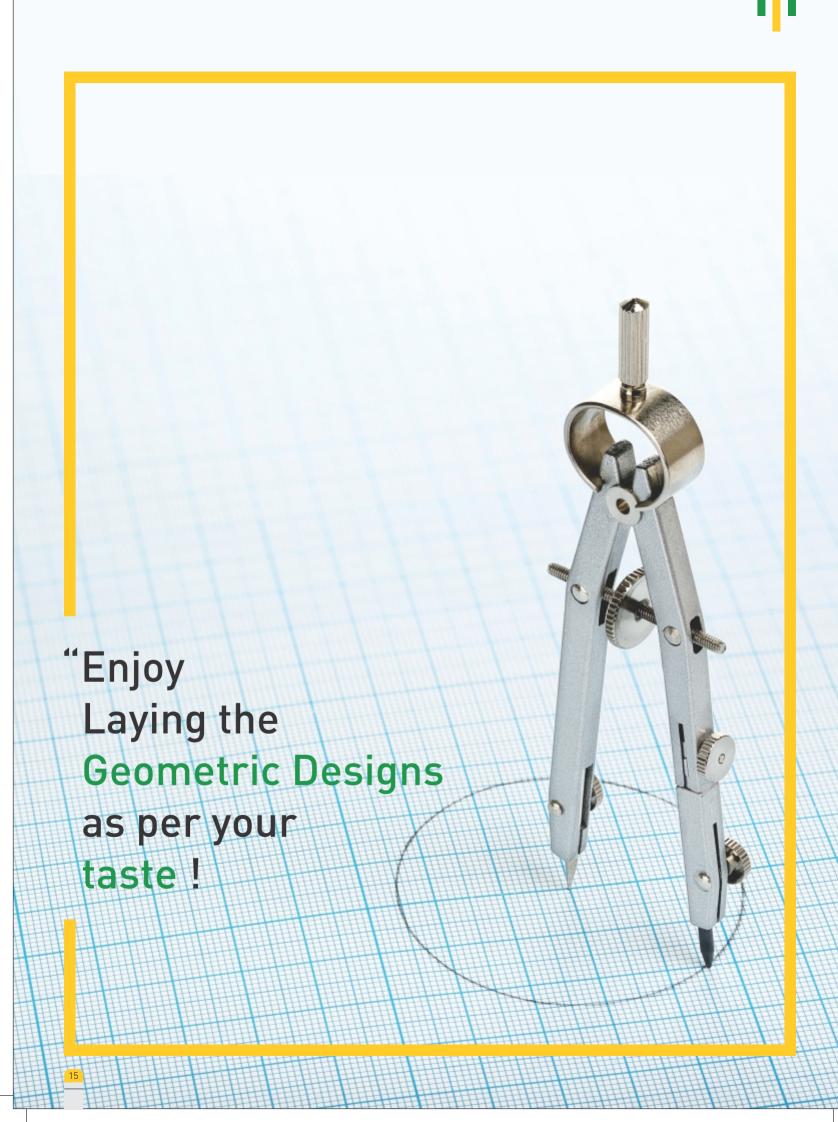
Try out these designs on Wall





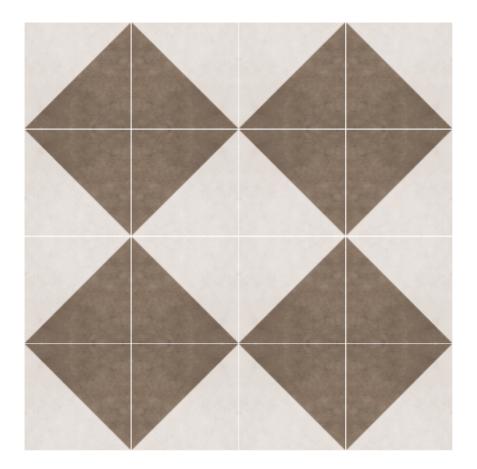










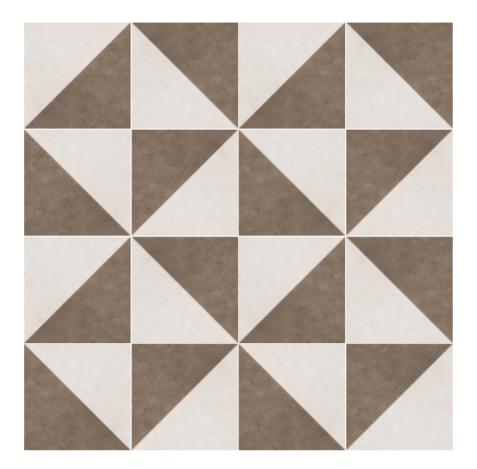


Bookmatch: Halls, Featured Wall

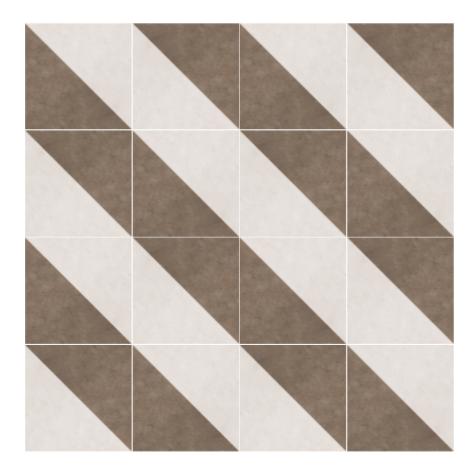


Inverse Bookmatch: Halls, Featured Wall

# Tile Laying Concepts



Hybrid Bookmatch: Halls, Featured Wall



Diagonal: Corridor, High Traffic

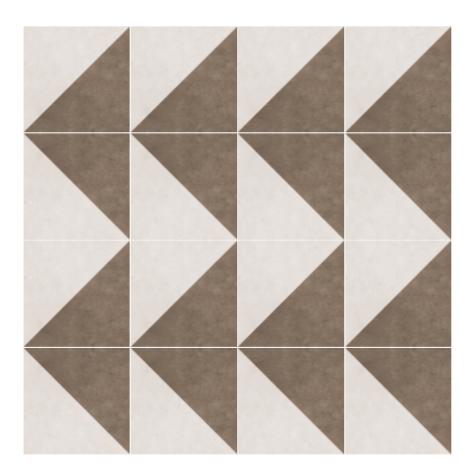
Use of spacer is must for such patterns







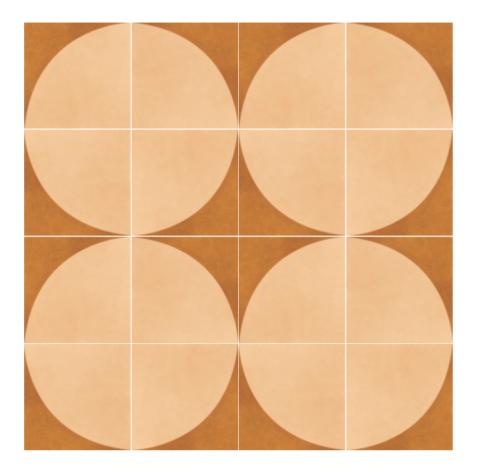
Arrow: High Traffic, Pathway



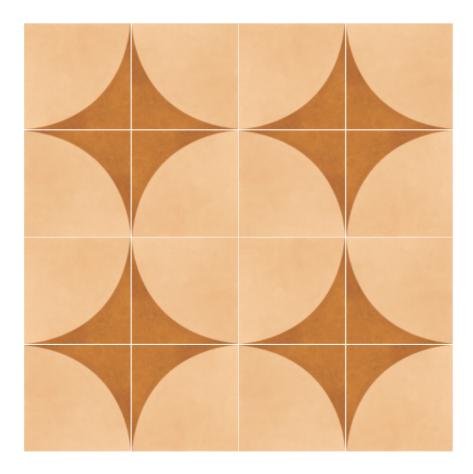
Double Arrow: High Traffic, Footpath



# Tile Laying Concepts



Circular: Halls, Common Area

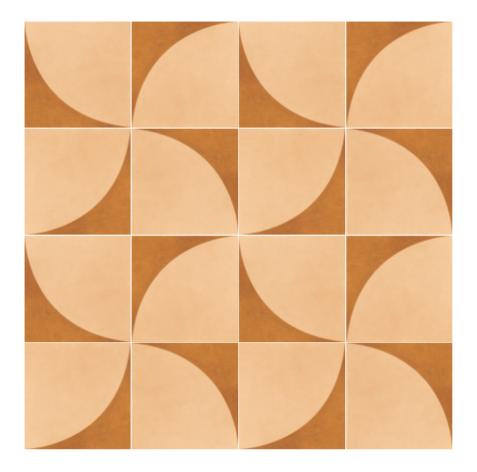


Star: Featured Wall, Common Area

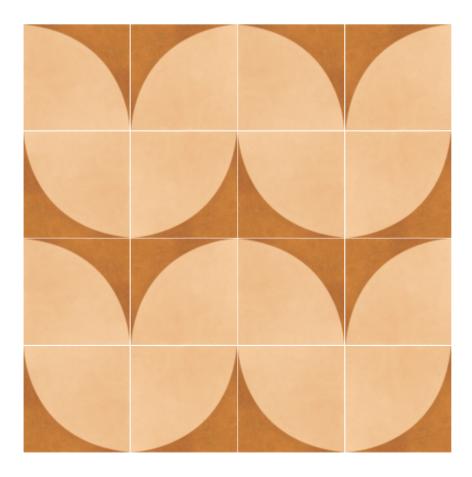
Use of spacer is must for such patterns







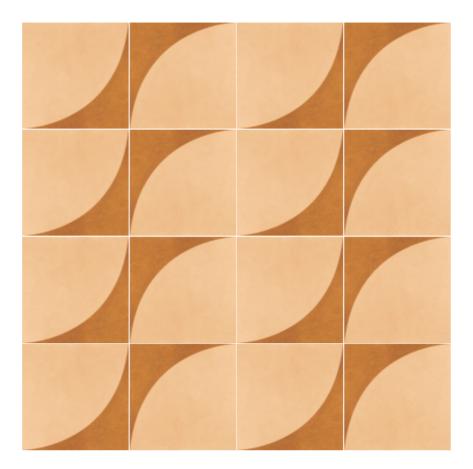
Butterfly: Featured Wall, Living Room



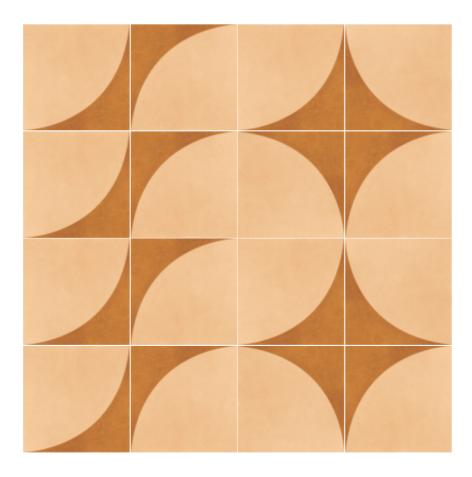
Rosebud: Halls, Featured Wall

Use of spacer is must for such patterns

# Tile Laying Concepts



Inclined Pillar: Featured Wall, High Traffic

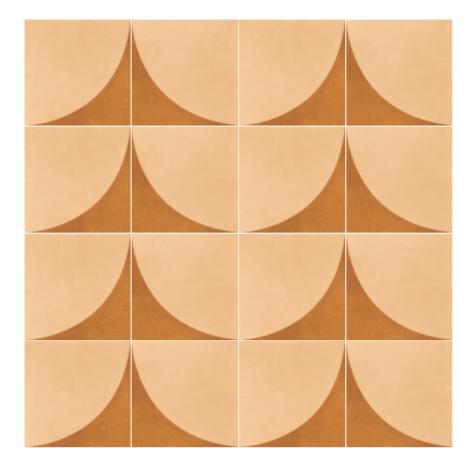


Combo: Halls, Footpath

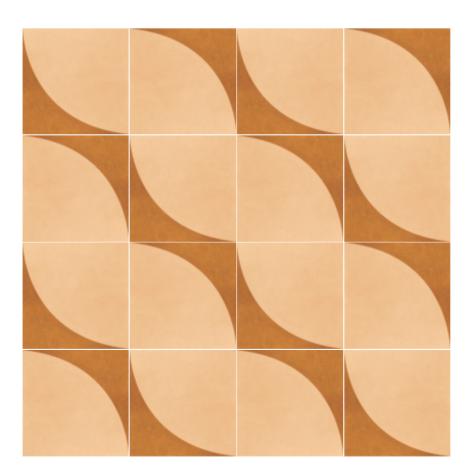
Use of spacer is must for such patterns







Mountain: Featured Wall, Pathway



Waves: Halls, Courtyard, Porch Area

Use of spacer is must for such patterns





GFT BDF NATURAL MAPLE WOOD





GFT BDF ANTIQUE WOOD BROWN DK





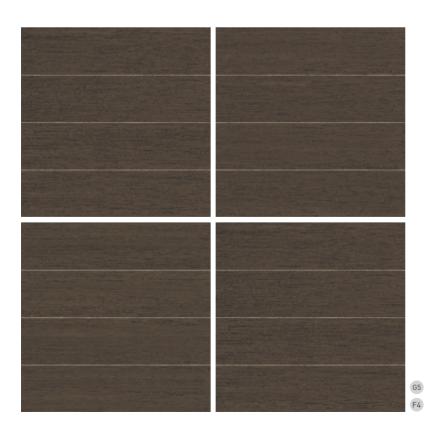








GFT BDF STRIP WOOD BEIGE





GFT BDF ESPRESSO WOOD STRIP













GFT BDF STRIP WOOD GREY





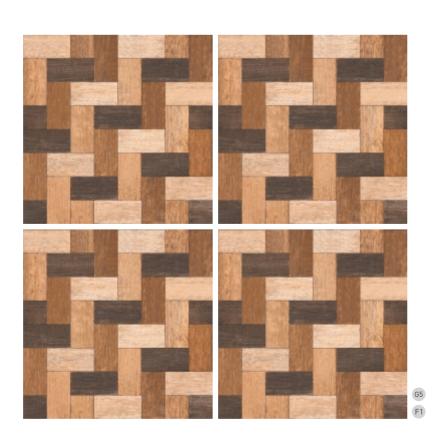








GFT BDF HERRINGBONE BLOND OAK

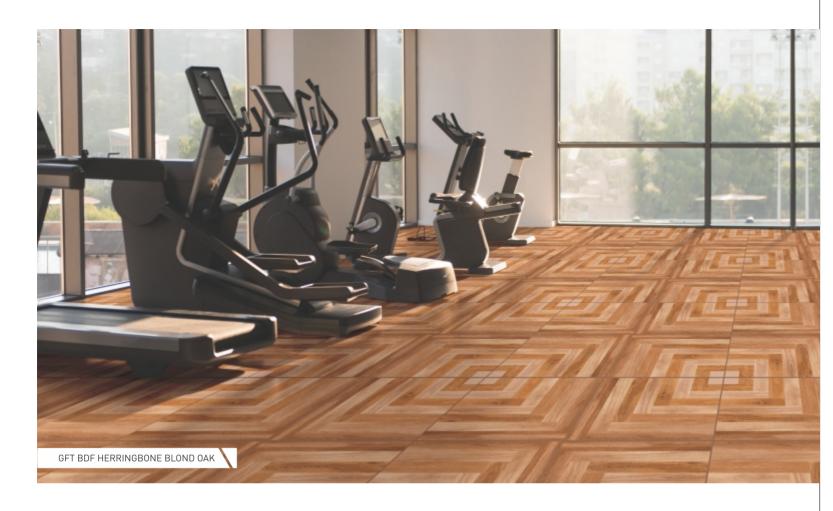




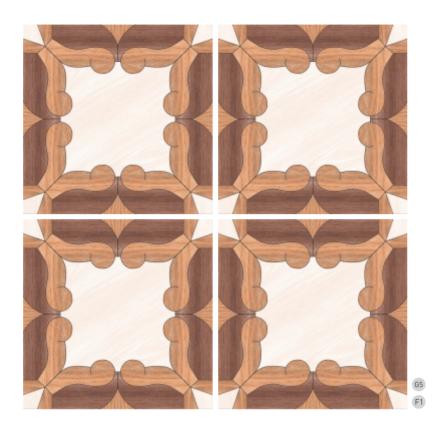
GFT BDF HERRINGBONE OAK MULTI





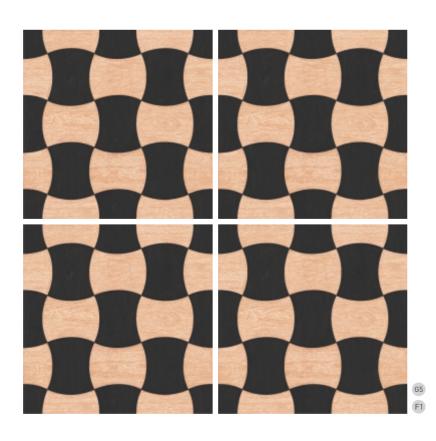








GFT BDF INLAY WOOD





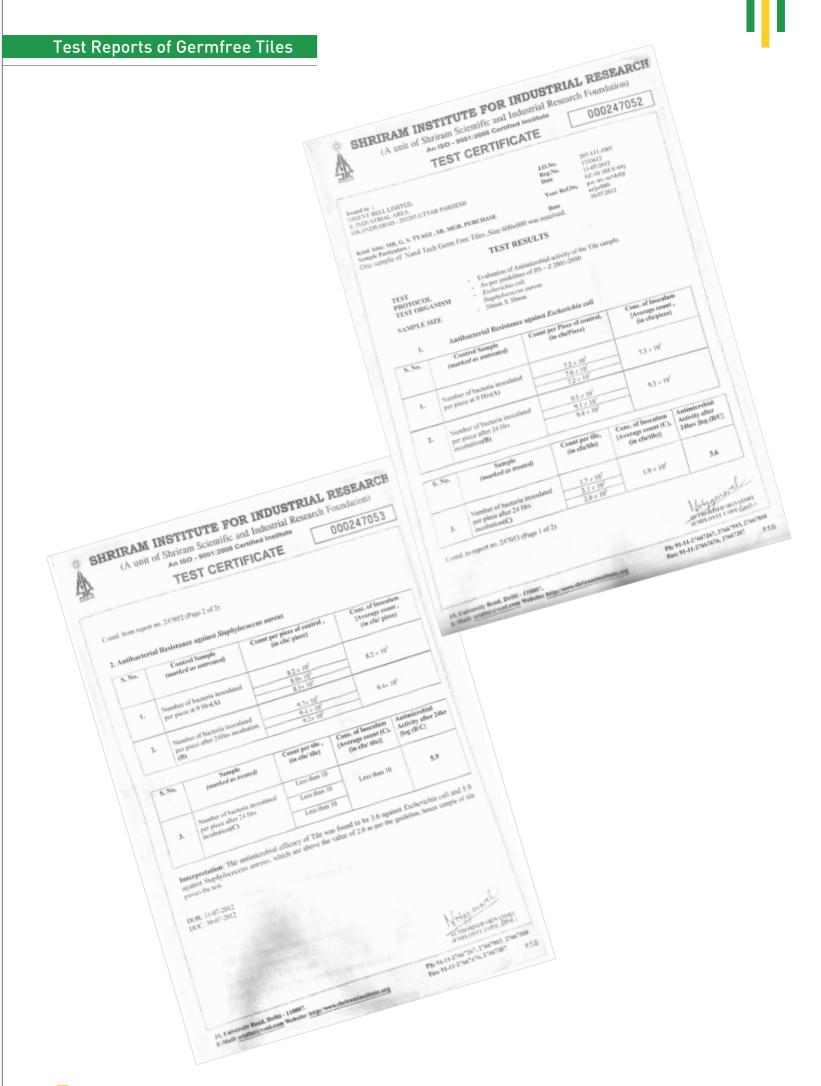
GFT BDF DOUBLE RIVET WOOD



















# TECHNICAL SPECIFICATIONS

# Forever Tiles

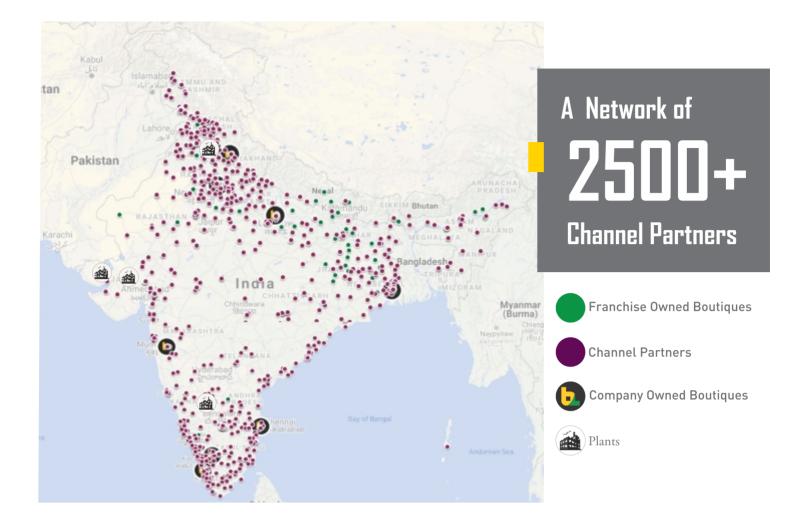


Packing Details						
Size	No. of Tiles	Covered Area Per Carton				
( In mm. )	Per Carton	( In Sq. Mtr. )	( In Sq. Ft. )			
600x600 (Dora)	4	1.44	15.5			

Characteristics	Standard as Per IS 15622:2017 Group B lb	OBL Norms	Testing Methods	
Dimension & Surface Quality				
Deviation in Length & Width	± 0.1 %	±0.05%		
Deviation in Thickness	± 5.0 %	±3.0%		
Straightness of Sides	± 0.1 %	±0.1%		
Rectangularity	± 0.1 %	±0.1%	IS 13630 Part 1	
Surface Flatness	± 0.5 %	± 0.2 %		
Surface Quality	Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile	Conforms		
Physical Properties				
Water Absorption %	Avg 0.08 < E ≤ 3.0% , Individual 3.30% Max	Less than 3 %	IS 13630 Part 2	
Modulus of Rupture in N/mm²	Avg 30, Individual 27 Min	Min 33 N		
Breaking Strength N	700 Min for thickness < 7.5mm, 1100 Min for thickness ≥ 7.5 mm	1200 N Min	IS 13630 Part 6	
Moisture Expansion	0.02, Max	0.02 Max	IS 13630 Part 3	
Scratch Hardness (Moh's Scale)	5, Min	7	IS 13630 Part 13	
Resistance to Surface Abrasion of glazed tiles Class I to V (Applicable for floor applications only)	Class II, Min	Class V	IS 13630 Part 11	
Linear thermal expansion Co-efficient	6x10 <sup>-</sup> , Max	Conforms	IS 13630 Part 4	
Thermal Shock Resistance	10 Cycles, Min	Passed	IS 13630 Part 5	
Crazing Resistance	4 Cycles at 7.5 Bar, Min	Passed	IS 13630 Part 9	
Impact Resistance	0.55, Min	0.6	IS 13630 Part 14	
Frost Resistance	Required if agreed to between manufacturer and purchaser	Resistant	IS 13630 Part 10	
Bulk density g/cc	2.0, Min	2.0, Min	IS 13630 Part 2	
Chemical Properties				
Stain Resistance Glazed tiles	Class I, Min	Class -1		
Resistance to household chemicals	Class AA, Min	Class AA	IS 13630 Part 8	
Resistance to acids and alkalis	Class AA, Min	Class AA		

NOTE: Certain amount of Size and Shade Variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

Every effort has been made to ensure the accuracy of the information given. However, the company reserves the right to delete & change, any of the items, colors, sizes & technical specifications without any prior notice.



## **ORIENT BELL TILE BOUTIQUE**

## **CHANDIGARH**

SCO - 6, First Floor, Sector 7-C, Madhya Marg, Chandigarh-160 019, Tel.: +91 172 4624 342

#### **CHENNAI**

New No: 85, Old No: 30, Maharaja Tower, 2nd Floor, 1st Avenue, Ashok Nagar, (Above Kotak Mahindra Bank), Chennai-600 083, Tel.: +91 44 4213 8687

#### COCHIN

"SURYA GAYATRI", Building No. 32/8, B3, Puthiya Road, New Junction, (Opposite Holiday Inn Hotel) Ernakulam By Pass Road, Cochin-682 031 Tel.: +91 97457 68058

### **COIMBATORE**

11, 1st Floor, Venkata Samy Road (East), R.S. Puram, Coimbatore-641 002, Tel.: +91 89799 41666

## **DEHRADUN**

Duggal Complex (Near Kamla Palace Hotel), GMS Road, Dehradun-248 001, Tel.: +91 97197 01064

## KOLKATA

8/1, Burdwan Road, Alipore, Kolkata-700 027, Tel.: +91 33 4068 4046/7

### **LUCKNOW**

Raj Rani Apartment, Ground Floor, Near Beej Nigam, Badhshah Nagar Railway Station, Lucknow-226 006, Tel.: +91 99847 86404

## **NEW DELHI**

M-47, GK-II, M Block, New Delhi-110 048, Tel.: +91 11 4068 7468/69

#### **PUNE**

Shop No. 3 and 4, A Tower Vega Centre, C.T.S No. 710, Final Plot No. 401/1, Shankarasheth Road, Gultekdi, Swargate, Pune-411 037 Tel.: +91 73910 72247

## **VADODRA DISPLAY CENTRE**

78-79, 2nd Floor, Surya Kiran Complex, Beside Banker Heart Institute, Old Padra Road, Vadodara-390007, Gujarat Tel.: +91 98254 14113



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www.orientbell.com

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