

Blue Star is the market leader in the ducted air conditioning space for the last three decades. The widest range of products in this category is available with Blue Star which includes hiper, hisen, water cooled and air cooled. The First generation Inverter Ducted Systems gained wide acceptance across the segments like retail, light commercial, offices and educational Institutes. Blue Star is proud to introduce the new generation Inverter ducted System which shifts the paradigm of energy efficiency to the next level. The new generation inverter ducted systems are designed with high efficient Inverter compressors, super precise electronic expansion valves and advanced electronics which will bring the efficiency levels closer to the VRF systems.



BLUE STAR'S NEW GENERATION INVERTER DUCTED SYSTEM

Blue Star's New Generation Inverter Ducted System is designed with an advanced energy-efficient inverter compressor technology and unique logic control which modulate the capacity of the system precisely to meet the actual load requirement inside the conditioned space.

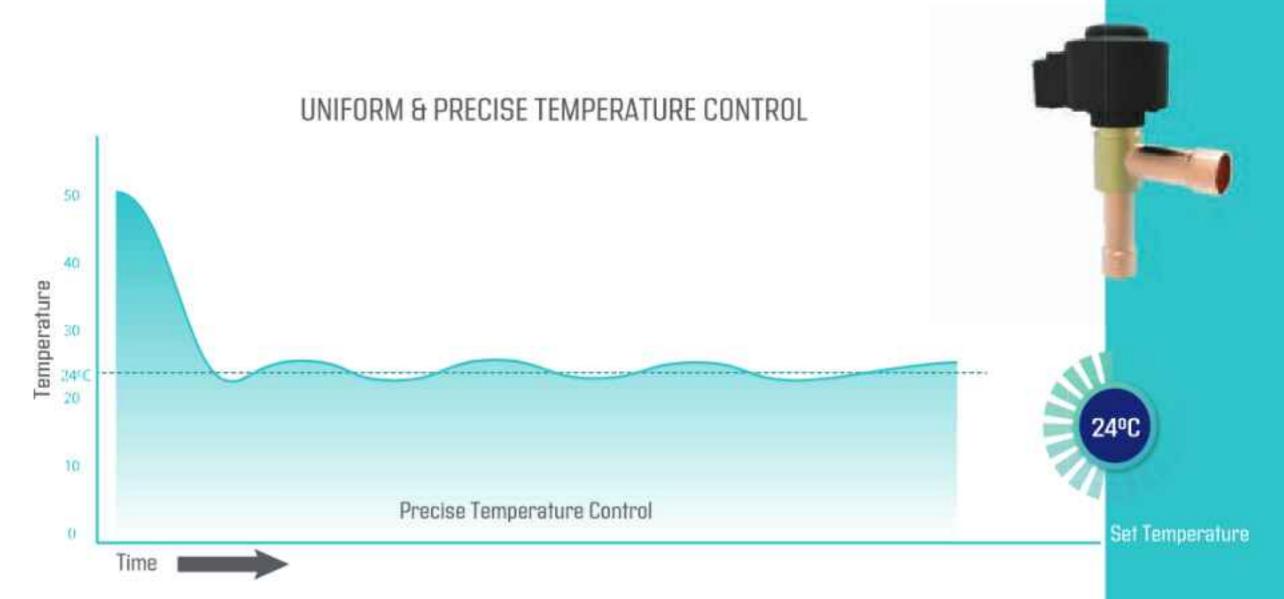


ADVANCED INVERTER COMPRESSORS AND CONTROLS

New generation inverter ducted units are equipped with the latest technology inverter compressors. These compressors can handle variable compression ratios effectively and handle variable load requirements efficiently.

The special electronic expansion valves with 3000 steps used in these systems will take care of the precise control of temperature in steps of 0.1°C.





LOWER STARTING CURRENT

In the conventional ducted system, starting current can be as high as 4 times the running current. This will result in oversizing the electrical components and the backup generators. The total power sanctions must also consider the starting current surge in to account which will be additional investments.

The inverter compressors can start in an unloaded condition which will require very low starting current. This will benefit in optimising the power requirements of the premises, electrical components and the generator sizing minimum by 30%.





HIGH EFFICIENT DESIGN – OUTSTANDING PERFORMANCE

With Blue Star's expertise in ducted system design, the new generation inverter ducted units have been designed with special oversized indoor and outdoor coils. These special design heat exchangers result in efficient performance of the system during various part-load and full-load conditions.

REFRIGERANT COOLED HEAT SINK

Inverter PCBs are refrigerant cooled with unique heat sink. This design enhances reliability at higher ambient temperature conditions.



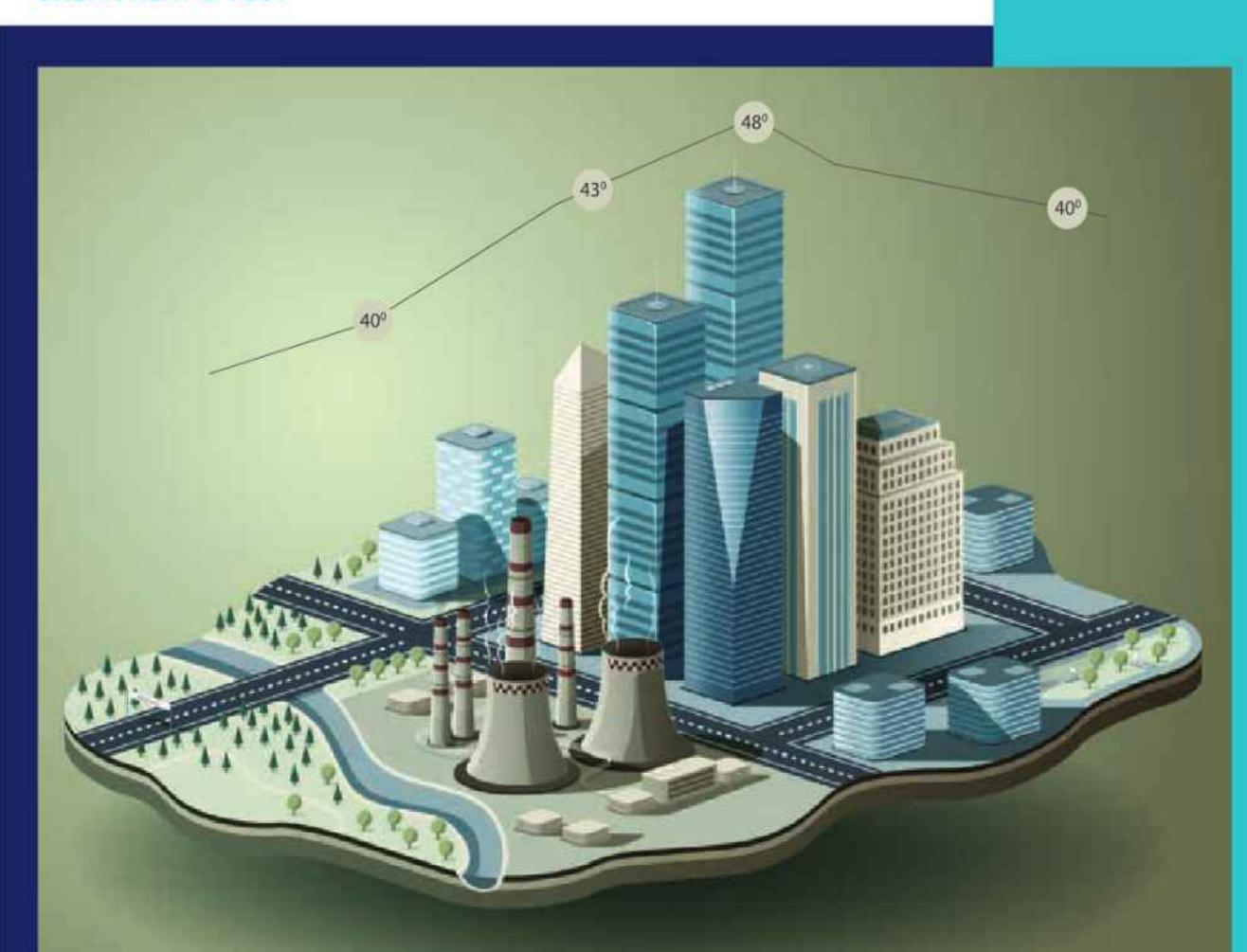
HIGHER AMBIENT OPERATION

Most of the air conditioners are designed to operate only up to 45°C beyond which machines shall trip. India is a tropical country where the temperature soars beyond 42°C during summer. The urban heat effect will further add the working conditions by 3 to 4°C.

New gen inverter ducted systems are designed to operate the typical Indian higher ambient conditions.

Inverter PCBs are refrigerant—cooled. The enhanced heat exchanger design along with the refrigerant cooled PCBs result in reliable operation even at very high ambient temperatures like 52°C.

URBAN HEAT EFFECT



POWER SAVINGS:

The high efficient inverter compressors, specially designed outdoor and indoor units, super precise electronic expansion valves and sophisticated electronics make the Blue Star's New Gen Inverter Ducted System, highly energy efficient. The machines can also precisely regulate the capacity based on the internal loads and external ambient. These features offer phenomenal 25% annualised power saving compared to any conventional ducted systems.

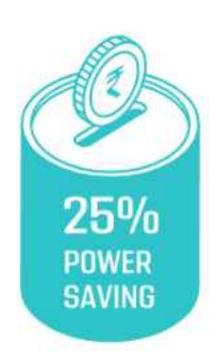
The return on investment will be less than 12 months.

CONVENTIONAL SYSTEM



INVERTER DUCTED SYSTEM





Suited for coastal areas:

Specially—treated and coated blue fins are used in the heat exchangers which not only improve heat transfer rates but are also resistant to corrosion, resulting in longer life.

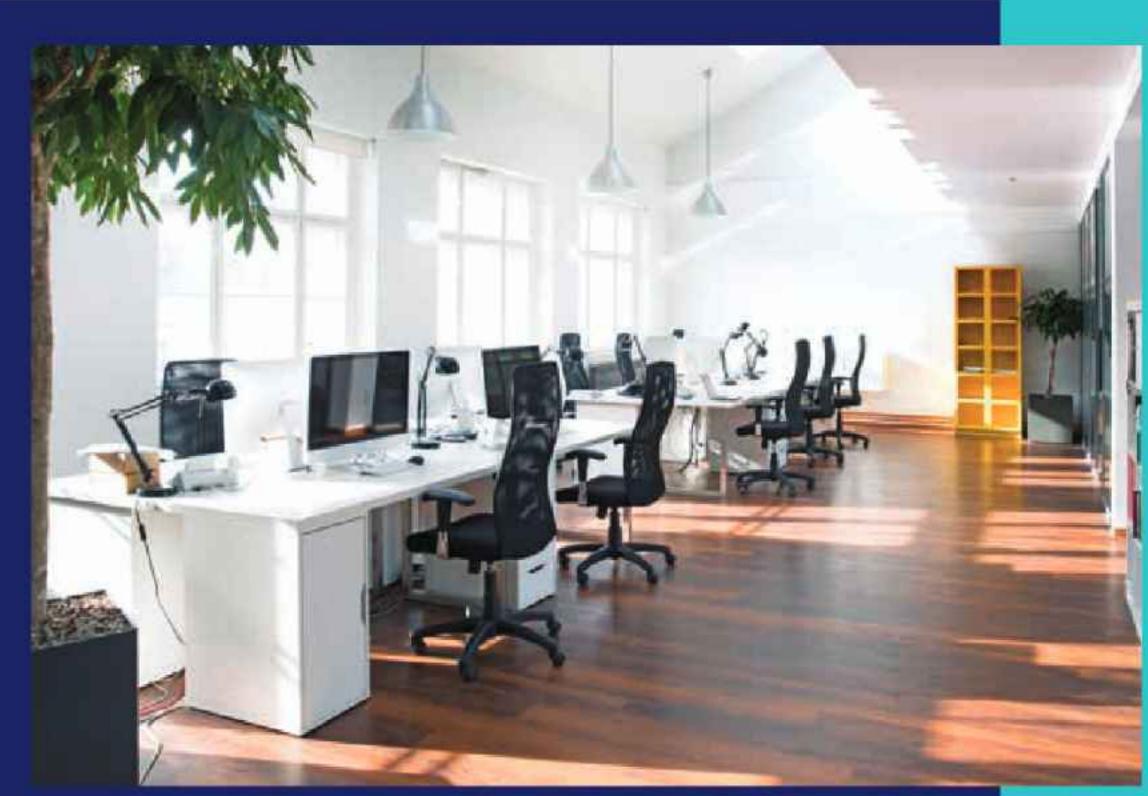


ENHANCED AESTHETICS

The next gen inverter ducted systems are designed with accumulators and intelligent oil control logic at various speeds.

This enables to have the piping length up to 60m. The outdoor units can be positioned in a terrace or in remote locations which shall help maintain external building aesthetics.





MULTI OUTDOOR ADVANTAGE

The multi outdoor system can run uninterruptedly with one ODU even in a rare case of any failure of other ODU, this happens automatically and no manual intervention is required.

AHU INTEGRATION

Non-standard AHUs with different static and CFM will be required for special applications like hospitals, clean rooms, banquet halls, etc. Specially designed AHU kits facilitate this AHU integration.

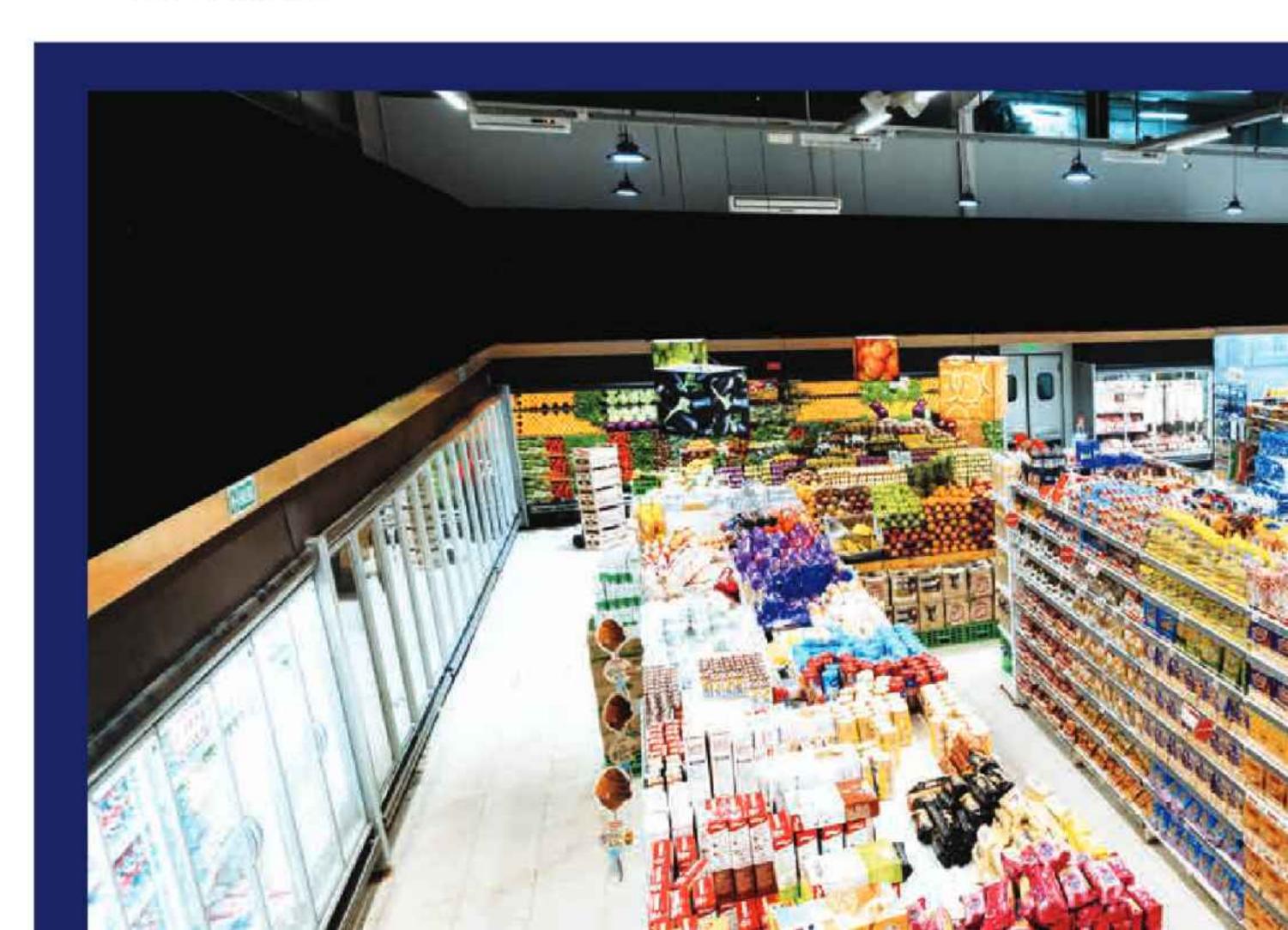
Inverted ducted system's outdoor units can be coupled with non-standard AHUs by the specially designed AHU kits.

A single AHU kit allows integration of AHUs up to a capacity of 22TR.

This feature is ideal for retrofit projects where we can replace the old conventional power gusting systems with energy efficient next generation Inverter systems.



AHU Kit Range: 5TR to 22TR.



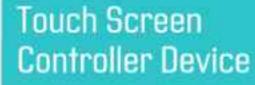
TOUCH SCREEN CONTROLLER FOR DUCTED SPLITS

The Blue Star Inverter Ducted System comes with a touch screen based controller and blue backlight. Controllers are elegant looking with many user friendly features.

Salient features of the Controller



















SPECIAL CONTROL FEATURES

The New Generation Inverter Ducted System comes with a variety of control options.

Group control

Up to 16 units can be integrated and controlled through a group controller, this will enable to control the entire air conditioning from a single source.

BMS integration

Inverter ducted units can be integrated with third-party BMS networks through Modbus RTU Communication Protocol using add-on cards. Up to 60 units can be connected to the MODBUS Master through optional converters.







Enterprise Systems







Access Control





Options are also available to convert to other protocols like Bacnet, Lonworks etc.



Name and

Air Cooled Packaged Air Conditioners- Inverter Type

DESCRIPTION	UNITS	DPAI-601R3A	DPAI-961R3A	DPAI-1321R3A	DPAI-1982R3A	DPAI-2842R3A	
	HP	6.25	10	14	21	28	
Nominal Cooling Capacity	TR	5	8	11	16.5	22	
	Btu/Hr.	60000	96000	132000	198000	264000	
Refrigerant				R410A			
Power supply (AC)	V/Ph/Hz	415V, 3 phase, 50Hz					
External Finish		Pure Polyester Power Coated 6I Stee					

			INDOOR UNIT					
Dimensions								
Width	mm	900	1160	1160	1500	1500		
Depth	mm	660	660	660	750	930		
Height	mm	1700	1700	1700	1750	1950		
Weight of Indoor unit	kg	185	235	250	410	480		
Power Supply (AC)		415V, Three Phase, 50 Hz						
Type of Blower		Centrifugal forward curved, double inlet, double width						
Processor Company (Company Company Com	CFM	2200	3750	4400	6600	8800		
Nominal Air flow	CMH	3740	6371	7470	11210	14940		
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)		
Compressor type		Hermetically sealed Rotary DC Inverter Hermetically Sealed Inverter Scroll Hermetically Sealed Inverter Scroll Inverter Scroll Inverter Scroll + Fixed Scroll						
Air Filter		Non woven polyester media enclosed in HDPE mesh						
Controller		Innovative intelligent inverter controller with touch screen display						
Capacity Control		Stepless						

			OUTDOOR UNIT			
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Dimensions						
Width	mm	1020	1320	1435	1435 +1020	1435 +1435
Height	mm	925	925	947	947+925	947+947
Depth	mm	416	416	635	635+416	635+635
Weight	kg	50	65	130	130+50	130+130
Power Supply (AC) to motor		230V, 1 ph, 50Hz	415V, 3 ph, 50Hz		230V, 1 ph, 50Hz	
Condenser Fan type				Propeller		

Specifications are subject to change without any prior notification due to continuous product improvement

Air Cooled Ducted Split Air Conditioners- Inverter Type

DESCRIPTION	UNITS	DSAI-801R3A/B	DSAI-961R3A/B	DSAI-1321R3A/B	DSAI-1982R3A/B	DSAI-2642R3A/B		
Nominal Cooling Capacity	HP	6.25	10	14	21	28		
	TR	5	8	11	16.5	22		
	Btu/Hr.	60000	96000	132000	198000	264000		
Refrigerant			R410A					
Power supply (AC)	V/Ph/Hz		415V, 3 phase, 50Hz					
External Finish		Pure Polyester Power Coated GI Stee						
Capacity Control		Stepless						

			INDOOR UNIT				
Dimensions					L. L		
Width	mm	1140	1485	1840	2035	2115	
Depth	mm	630	630	630	1085	1005	
Height	mm	485	485	485	555	865	
Weight of indoor unit	kg.	55	75	90	150	210	
Power Supply (AC)		215V, Single Phase, 50 Hz					
Type of Blower		Centrifugal forward curved, double inlet , double width					
Nominal Air flow	CFM	2200	3400	4400	6600	8800	
	СМН	3740	5770	7470	11210	14940	
Air Filter		Nonwoven polyester media enclosed in HDPE mesh					
Controller		Innovative intelligent inverter controller with touch screen display					

			OUTDOOR UNIT			
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11 TR + 11TR)
Dimensions						
Width	mm	1020	1320	1320	1320+1020	1320+1320
Height	mm	925	925	1495	1495+925	1495+947
Depth	mm	416	416	416	416+416	416+635
Weight	kg	95	125	155	155 + 95	155+155
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)
Compressor type		Hermetically sealed	Rotary DC Inverter	Hermetically Sealed Hermetically Sealed Inverter Scroll Inverter Scroll + Fixed Scroll		
Power Supply (AC) to motor		230V, 1 ph, 50Hz	415V, 3 ph, 50Hz	230V, 1 ph, 50Hz		
Condenser Fan type	-	Propeller				





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24X7 CUSTOMER CARE (Toll Free) 1800 209 1177 1860 266 6666

For more information, please contact BLUE STAR LIMITED - Ahmedabad: 301 & 302, (3rd floor), Abhishree Avenue, (Near) Nehru Circle, SM Road, Ambawadi, Ahmedabad - 380015. Tel: (079) 40224000 • Bengaluru: Anjuman Kay A R R Tower, No 28, Ward No 77, Mission Road, Bengaluru - 560027. Tel: +91 (80) 4185 4000 • Bhubaneshwar: 3A Satya Nagar, 2nd floor, Bhubaneshwar - 751007. Tel: (0674) 2572403/2573670 • Chandigarh: 4th floor, Adarsh Mall, Plot No. 50, Industrial & Business Park, Phase II, Chandigarh - 160002. Tel: (0172) 5024000• Chennai: KRM Plaza, No. 2, Harrington Road, Chetpet, Chennai - 600031. Tel: (044) 42444000 • Ghaziabad: C 53A, Third floor, Rajnagar District Centre (RDC), Raj Nagar, Ghaziabad - 201001, Uttar Pradesh. Tel: (0120) 2821400 • Goa: 210, 2nd floor, Gera's Imperium 1, Patto, Panjim, Goa • 403001. Tel: (0832) 2438171/2437287 • Guwahati: Oasis Plaza, 1st Floor, Dr. B. Baroah Road, Ulubari Kamrup, Guwahati - 781007. Tel: (0361) 2468496 • Gurugram: 6th floor, Vatika Atrium, Golf Course Road, Sector 53, Gurugram - 122002. (Haryana). Tel: (0124) 4094000 • Indore: Office No. 502, Maloo-01 26/C, Scheme No. 94/C Ring Road, Indore - 452010. Tel: (91) (731) 4001211/4001311 • Jaipur: A-19, 1st floor, Main Sahakar Path, Near Sahakar Bhavan, Jaipur -302001. Tel: (0141) 2744033-35 • Jamshedpur: 2nd Floor, Sai Apartment, Opposite Thakur Pyara Singh Ground, Kasidhi, Sakchi, Jamshedpur - 831 001 Tel: (91) (657) 222 1530 • Kochi: 2nd floor Millennium Plaza, MKK Nair Road, Alinchuvadu Junction, Kochi - 682024. Tel: (0484) 4499000 • Kolkata: Eco Centre Business Tower, 11th Floor, Unit No. 1 & 2, Plot No. 4, EM Block, Sector V, Salt Lake, Bidhannagar, Kokata - 700091. Tel: (033) 40815400 • Ludhiana: SCO 16-17, Feroze Gandhi Market, Fortune Chambers, 3rd floor, Ludhiana - 141001. (Punjab) Tel: (0161) 5001404 • Lucknow: 177/4, Faizabad Road, Lucknow - 226007 Tel: (0522) 403400 • Mumbai: Blue Star House, 9-A Ghatkopar Link Road, Saki Naka, Mumbai - 400072. Tel: (022) 66684100 • Nagpur: 219, Bajaj Nagar, 1st floor, South Ambazari Road, Nagpur - 440010. Tel: (0712) 2249000/6624000 • New Delhi: Blue Star Ltd., Plot No. 8, 1st Floor, Elegance Tower, Jasola, New Delhi - 110025 Patna: Ambition Business Centre, Laxmikant Niketan Parisar, 4th floor, 'B' Block, Room No. 405, Jamal Road, Patna - 800001 • Pune: 201/A, Nityanand Complex, 1st floor, 247/A, Bund Garden Road, Pune - 411001. Tel: (020) 41044000/26169332 • Raipur: Alaska Corporates, 3rd floor, Opp. VIP Road, Jivan Vihar Colony, G E Road, Raipur, Chhattisgarh - 492006. Tel: (0771) 6544000 • Hyderabad: Ashoka Raghupati Chambers, No. 1-10-60 to 64, 4th Floor, S P Road, Begumpet, Hyderabad, Telangana - 500 016. Tel: (040) 4400 4000 • Thane: 2nd Pokhran Road, Majiwada, Thane - 400601 Tel: (022) 6715 4500 • Thiruvananthapuram: TC IV/962, 'Chandrika', Sree Chitra Nagar, PipeLine Road, Kawdiar, Thiruvananthapuram - 695003. Tel (0471) 2720025/65 · Vadodara: Ramakrishna Chambers, 7th floor, Productivity Road, Alkapuri, Vadodara - 390007. Tel: (0265) 2330334/6614100 · Visakhapatnam: D. No. 49-24-65/1, Near Sankarmatam Road, Madhura Nagar, Visakhapatnam - 530016. Tel: (0891) 2748405/2748433 • Vijayawada: No. 40-1-62, Nagas Hafeez Plaza, Opposite to grand modern supermarket, Near BENZ Circle, M G Road, Vijayawada 10. Tel: (0866) 2484004