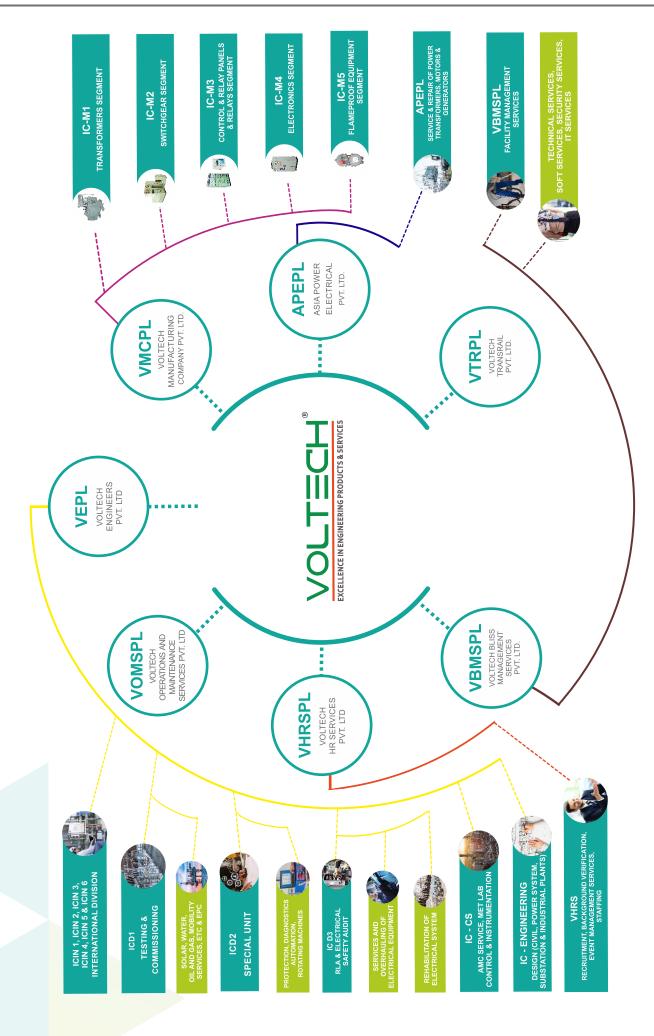


Transforming the Future of Power Technology



VOLTECH GROUP OF COMPRNIES





Dear Esteemed Customers,

Greetings from VOLTECH GROUP!!!

Asia Power Electrical Pvt. Ltd., is a sister concern of the Voltech Group, established as a Private limited company in 2022. The company specializes in the field of Repairing, Overhauling and Reconditioning of Power and Distribution Transformers with over 23 years of Experience, with expertise spanning over two decades, Handling ratings up to 100MVA & 220KV voltage class.

Originally founded as Asia Power Electrical in 2003, The company began operations under the same name focusing on Transformer Repair. In 2014, It transitioned to Asia Power Electrical LLP. Finally, in 2022, the Company was incorporated as Asia Power Electrical Pvt Ltd.

In 2024, We Expanded our Services to include the Repair and Servicing of Motors and Generators, with a range capacity up to 50MW.

The Transformer, Motor and Generator Service Company is a leading service provider of Maintenance, Condition Assessment, Repair, and Refurbishment solutions for Transformers, Motors, and Generators.

With more than Two Decades of Industry Experience, Asia power Electrical Pvt Ltd is committed to Ensuring the Reliability, Efficiency, and Longevity of Electrical Equipment for Industrial, Commercial, and Utility sectors. Our organisation has been created by the building blocks of Hard Work, persistence and an obsession for Quality.

We have offices in the Middle East South East Asia, Africa, SAARC Region, AMERICAS and Europe.

This company brochure is specifically designed to provide you with the latest information about our organization in terms of our experience, capabilities and technicalities in a comprehensive way.

Our offices work around the clock to attend your calls and queries about any service that we endeavour to offer.

Please pursue through this brochure as a ready reference and contact us at your own pleasure.

With Regards,

M. Umapathi B.E., F.I.E.,

Our Vision and Mission



Vision

To be recognized globally as a highly Effective, Efficient and Expert to provide Quality & Engineering Services for Repairing, Overhauling and Reconditioning of Transformers, Motors and Generators



Mission

Customer Satisfaction through Professional Service and Timely Delivery with Zero Failures



Strategy

Continuous Establishment of Service Opportunities and Exploring with high standards and best practices.

Company Overview

The Transformer, Motor and Generator Service Company is a leading service provider of Repair, Refurbishment, Overhauling Servicing, Maintenance, Condition Assessment, of Transformers, Motors, and Generators. With more than Two Decades of Industry Experience, Asia power Electrical Pvt Ltd is committed to Ensuring the Reliability, Efficiency, and Longevity of Electrical Equipment for Industrial, Commercial, and Utility sectors.





Our

Core Values



Integrity

We uphold the highest standards of integrity in all our actions.



Innovation

We embrace innovation, continuously improving our services and processes.



Customer Commitment

We develop strong relationships that makes a positive difference in our customers' survives.



Quality

We use outstanding products and unsurpassed service that deliver premium value to our customers.



Safety

We maintain rigorous safety standards for our employees and clients.



Teamwork

We work together across boundaries to meet the needs of our customers and help our company win.

Why Choose Asia Power?



Expertise

With over two decades in the industry, our technicians are highly trained and experienced.



Quality Assurance

Our comprehensive quality control process guarantees the highest standards of repair & reconditioning.



Customer Focus

We provide tailored solutions to meet the specific needs of each client.



Competitive Pricing

Our services are priced competitively, providing excellent value for money.

Services Offered

Transformer Service

Transformer Repair

- Diagnostics and Fault Analysis
- On-site and in-shop (Off site) Repairs
- Core and Coil repairs and Replacements
- Insulation System Repairs and Replacements
- ON Load and Off Load Tap Changer (OLTC & OCTC) Repair and Maintenance

Reconditioning

- Complete Disassembly and Cleaning
- Component Inspection, Assessment and Testing
- Re-insulation and Reassembly

- Performance Testing and Quality Assurance
- Oil processing and replacement

Maintenance Services

- Preventive Maintenance Programs
- Condition Monitoring and Assessment
- Routine Inspection and Testing
- Oil Sampling and Analysis







Upgrades and Retrofits

- Modernization of Existing Transformers
- Efficiency Enhancement Solutions
- Custom Retrofitting Services

Testing & Commissioning

Routine Tests

- Insulation Resistance Test
- Transformer Turns Ratio (TTR) Test
- Winding Resistance Test
- Leakage Reactance Test
- Polarity and Phase Relation Test
- Magnetic Balance Test
- Magnetizing Current Test
- Vector Group Confirmation Test

Type Tests

- Temperature Rise Test
- Impulse Test
- Short Circuit Withstand Test
- Dielectric Tests

Condition Assessment Tests

- Partial Discharge Test
- Sweep Frequency Response Analysis (SFRA)
- DIRANA(FDS)
- Acoustic Emission Test
- Tan Delta and Capacitance Test
- Oil Analysis



Motor Services

We do Repairing, Overhauling and Routine Maintenance Services for all types of AC and DC Motors.

Motor Repair and Maintenance

- Inspection and Diagnostics
- Disassembly and Re-Assembly
- Cleaning
- Repair and Replacement of Faulty Parts
- Rewinding and Insulation replacements
- Dynamic Balancing

Motor Reconditioning

- Complete Disassembly and Inspection
- Cleaning and Refurbishment of Parts
- Rewinding of Coils

- Bearing Inspection and Replacement
- Rotor Trueness checking
- Installation and Alignment
- Testing and Commissioning of Motors
- Predictive Maintenance Programs
- On-Site Troubleshooting and Repair
- Upgrading Outdated Systems
- Redesign and Efficiency Optimization
- Refurbishment of Bearings
- Balancing and Alignment

Asia Power offers
Reliable Motors
Services with
Innovative
Solutions.

08 | ASIA POWER ELECTRICAL PVT. LTD.



Condition Assessment Testing

Stator

- Stator IR & PI Measurement
- Winding Resistance Measurement
- Stator DC High Voltage Withstand Test (DC Leakage Current / Step Voltage Test)
- Surge Comparison Test
- Natural Frequency Test on End Winding(NFT)

- Stator Slot Wedge System Check / Wedge Knocking Test
- Off Line Partial Discharge Test
- Boroscopic Test / Endoscopy of non-accessible area of Stator and Rotor
- Motor Current Signature Analysis (MCSA)

Online Test

- Vibration Analysis
- Acoustic Emission Analysis
- Infrared Thermography Analysis
- PD Couplers / Sensors Installation

- PD Measurement in Online from existing
 PD Couplers
- Flux Monitoring / Flux Sensors Installation

Rotor

- IR & PI Measurement
- Digital Recurrent Oscilloscope (DSRO)
- AC Impedance Measurement
- Pole Drop Test

Generator Service

We do Repairing, Overhauling and Routine Maintenance Services for various Types of Generators includes Hydro Generators, Turbo Generators, Wind Turbine Generators and Diesel Generators.

Generator Repair

- Generator Dismantling and Reassembly
- Stator core inspection restack and supply of core and coil
- End Bell and Wedge Inspection
- Replacement of Bearings
- Rewinding of Stator
- Supply of Winding Kits

- Rotor Rewinding, Re-Insulation and Replacement
- Condition Monitoring
- Diagnostics and Troubleshooting
- Electrical and Mechanical Repairs
- Replacement of faulty Components

Generator Service

Generator Reconditioning

- Complete Disassembly and Inspection
- Cleaning and Refurbishment of Parts
- Rewinding of Coils
- Upgrading Outdated Systems

- Redesign and Efficiency Optimization
- Refurbishment of White Metal/Babbitt Bearings
- Speed Balancing

Maintenance Services

- Site Maintenance, Inspection and Overhauling
- Inspection of Structural Components by using Non-Destructive Testing (NDT)
- AMC / PM (a to d check) of all type of Generators

- Testing and Commissioning
- Breakdown Maintenance
- Performance Assessment
- Load Test

Special Condition Assessment Testing

Stator

- Generator Stator IR & PI Measurement
- Winding Resistance Measurement
- Computerized ELCID Test

- Generator Stator DC High Voltage Withstand
 Test (DC Leakage Current / Step Voltage Test)
- Surge Comparison Test





Rotor

- IR & PI Measurement
- Recurrent Oscilloscope (DSRO)
- **AC Impedance Measurement**
- Pole Drop Test
- MPI and Microstructure Test

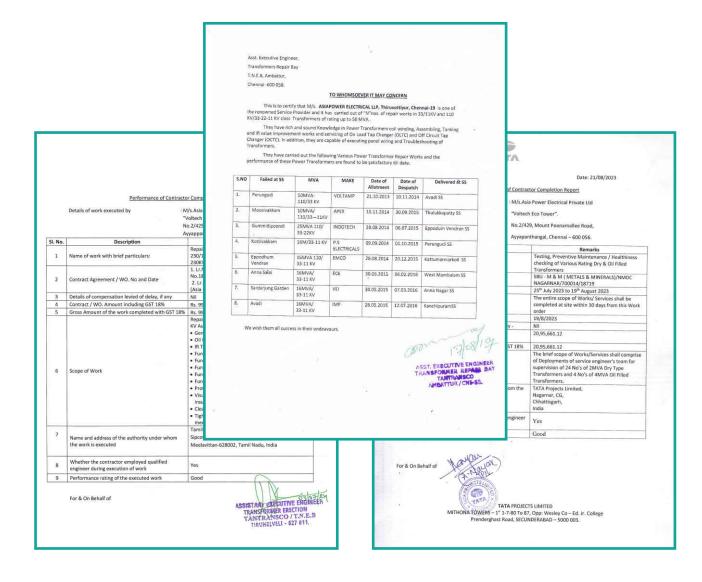
Parts and Accessories

- Genuine OEM Parts
- After market Parts
- Accessories and Upgrades

Online Test

- Vibration Analysis
- Acoustic Emission Analysis
- Infrared Thermography Analysis
- PD Measurement in Online from existing PD Couplers
- PD Couplers / Sensors Installation
- Flux Monitoring / Flux Sensors Installation

Performance Certificate



Our **Major PO**

No. 618 /ED/SE-O&M/PR/EE-RISI/JE/e-Tender No.01 (23-24)/2024-2025 GOVERNMENT OF PUDUCHEERY ELECTRICITY DEPARTMENT

W.O.No. 2 /ED/ SE-O&M/PR/2024-25

Dt: 11 /06/2024.

WORK ORDER

M/s. Asia Power Electrical Private Ltd.,

Sub: Electricity Department-Bahour Sub-Division, Puducherry- "Repairing/ Servicing of 16MVA Power Transformer - 1 at 110/22KV Bahour Substation, Electricity Department, Puducherry' - Regular Work Order -Issued.

- Ref: 1.E-Tender No 01/ED/EE-R(S)/2023-24 dt: 12.02.2024.
 2. Tender LD 2024-EDOM-15313-2
 3. Your Bid LD No 4841 8dt: 22.00.2024.
 4. Provisional W. O. No 466/ED/SE-O&M-PR/EE-R(S)/JE/e-Tender No [0.3-24) 2024-25 dt: 22.05.24
 5. Your Submission of Performance Bank Guarantee APE/Bahour/-BG/24-25/dt:29.05.2022
 6. Your Acceptance Letter No.APE/Bahour-BG/24-25/dt:04.06.2024.

Your offer for "Repairing/Servicing of 16 MVA Power Transformer – I at 110/22KV Bahour Sub-station, Electricity Department, Fuducherry" at your tendered amount of Ra.41,98,971/- (Rupees Forty One Lak! Hundred and Seventy One Only) has been accep india as per Annexure I & II enclosed herewith.

The Assistant Engineer Bahour Sub-station above said works.

- The rate is inclusive of freight, excise duty, F.O.R destination, repair, erection, testing Transformer as per the specification of the dep
- The contractor shall warrant that the work is tender specification and other materials s materials and workmanship.
- The Security Deposit amounting to Rs.2, 0 thousand nine hundred and fifty only) ha Bank guarantee. In addition a sum of 5% of be deducted from each running bill.

- 7. Payment will be made on first and final bill

TAMIL NADU TRANSMISSION CORPORATION LIMITED

Er.B.Latha, B.E.,

M/s.Asia Power Electrical LLP, Survey No.213/3, Pillaipakkam Village, Sriperumbudur Taluk, Kancheepuram Dist., Tamilnadu-602105.

Lr.No.CE/TP-I/ EE/AEE/E/ F.TP1-15/22-23/RC-LOA .46/22-23/D.1389/22 dt.11.08.2022.

1. ACCEPTANCE

Sub: TANTRANSCO-Transmission Projects-I-Specification No: TP1-15/2022-23 – Repairing and Reconditioning of 110 KV class sick Power Transformers and transporting to allotted site/SS after completion of repair in respect of TP-I Region – Repair contract for a period of two years – Letter of Award – Regarding.

Ref: 1. Tender Specification No.TP1-15/2022-23. 2. Technical & Commercial bid opened on 31.05.2022

- 3. Price bid opened on 20.06.2022. 4. Lr.No.CE/TP-I/EE/AEE/E/AE1/F.TP1-15/22-23/D.1134/22dt.22.06.22.

I, acting for and on behalf of and by the order and direction of the TamilNadu Transmission Corporation accept to enter into an agreement with you for Repairing and Reconditioning of 110 KV class sick Power Transformers and transporting to allotted site/SS after completion of repair in respect of TP-I Regional various capacities ranging from 10 MVA to 50 MVA from various substations in TNEB/TANTRANSCO/TANGEDCO/Transformer Repair Bay (Ambattur) pertaining to area covered in respect of TP-I Regionand Transporting the rectified transformers to sub-stations/site anywhere in TamilNadu, at the prices shown in Annexure-Ifor an approximate value of Rs.2,50,00,000/-inclusive of Goods Service taxes @18% (Rupees Two crores fifty lakhs only), subject to the terms and conditions set forth herein.

REPAIR CHARGES
 The repair charges indicated in Annexure-I are firm (except HV/LV coils price) will be paid to the contractor for the items of repair attended to, by him in respect of

each transformer repaired. For HV/LV coils, the rates indicated in Annexure –I is**variable**, with a ceiling of \pm 30% on the base price of HV & LV coils with base date as on 01.04.2022 on the

- 5. Your letter dated.04.07.2022 6. BLTC note under circulation approved dt.03.08.22. 7. Draft LOA dt. 05.08.22 8. Your email dt.09.08.2022.

TAMIL NADU GENERATION AND DIST

Er.K.Thenmozhi, M.E., Chief Engineer/Distribution, Vellore Region, Gandhi Nagar, Vellore-6. M/s. Asia Voltech Ed Mount Po Ayyapant Chennai email- asi

Lr.No:CE/D/VLR/EE/Elec/AEE/MM/F.W.C No. 00 Dear Sirs,

Vellore Region - Tender Enquiry No. and reconditioning of 33 KV class capacities available at various places years to a face value of 2 crores-Works

1) This office Enq. No.02/2023-24 dt. 04.08.2023. 2) Your negotiation letter dated 04.01.2023 & 13.03.2024 .

1. ACCEPTANCE:-

I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation And Distribution Corporation Ltd., accept to enter into an agreement with you for Repairing and Reconditioning of 33KV class sick power transformers of various capacities available at various places in Vellore Region and Transporting the rectified transformers to sub-stations/site anywhere in Vellore Region at the prices shown in Annexure-I, subject to the terms and conditions set forth herein.

2. REPAIR CHARGES:-

The repair charges indicated in Annexure-I are firm (except HV/LV coils price). Repair Charges will be paid to the contract or for the items of repair attended to, by him in respect of each transformer repaired .For HV/LV coils, the rates indicated in Annexure-I is variable, with a ceiling of ±30% on the base price of HV & LV coils with base price as on



Phone 044 -27480112 (Off.) Phone 044-274889278 (Res) Fax 044 - 27480233

er No:IGC/ESG/ESD/ Offer dt. 04.09.2008 Dated 24-10-2008

04.2022 on the

ated 31st October 2008 stating the acceptance work in
Inhert dated 24.10.2008 for "Servicing of the power
1.6/2.0 MVA capacity 4 Nos in MDL substation at
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- The work shall be executed in full accordance with the terms, conditions and scope of work stipulated in the enquiry document referred above and as
- Your rates are inclusive of all taxes and duties such as sales tax, surcharge, service tax and work contract tax etc.
- You are requested to start the work at once. Please note that this is an emergency work and the time allowed for the work is <u>SIX MONTHS ONLY</u> and shall be reckoned from the date of this order to commence the work.
- You are requested to contact Shri N. Djearadjane, Head EMS & HVDS for detailed instructions regarding the work.
- The receipt of this work order may please be acknowledged without delay.

Scope of work
 Schedule of quantity



Our

Major Projects

S. NO	Project Description	Location	Client	Date	РО
1	Repairing and Reconditioning of 100MVA Transformer	Kayathar	TANTRANSCO	2021	Lr.No.CE/TP-I/EE/AEE/E/ F.110KV Class R.C.No.18 (Asia-Chennai)/19-20/ D.32/21 Dt.05.01.2021
2	Repair work of 50MVA Transformer	Veeranam SS	Powerica Ltd	2020	POW/WIND/20-21/ WO-O&M/026
3	Repairing and reconditioning of 110 KV class sick power transformers (16MVA,25MVA & 50MVA)	Chennai	TANTRANSCO	2022	Lr.No.CE/TP-I/EE/AEE/E/ JE/F.TPI-15/22-23/RC- LOA .46/22-23/D.1389/ 22 dt.11.08.2022.
4	Repairing and reconditioning of 110 KV class sick power transformers (16MVA,25MVA & 50MVA)	Trichy	TANTRANSCO	2022	Lr.No.1306/CE/TPII/TRY/EE /AEE/AE/F.E-05/22-23/ R.C.No.01/22-23, Dt.02.09.2022
5	Repairing and reconditioning of 110 KV class sick power transformers (16MVA,25MVA & 50MVA)	Coimbatore	TANTRANSCO	2022	Lr.No.1325/CE/TPII/TRY/EE /AEE/AE/F.E-07/22-23/ R.C.No.20/22-23, Dt.02.09.2022
6	Repairing and reconditioning of 110 KV class sick power transformers (16MVA,25MVA & 50MVA)	Madurai	TANTRANSCO	2022	Lr.No.1316/CE/TPII/TRY/EE /AEE/AE/F.E-06/22-23/ R.C.No.11/22-23, Dt.02.09.2022
7	Repairing and reconditioning of 110 KV class sick power transformers	Chennai	TANTRANSCO	2019	Lr.No.CE/F.TP-I-01/19-20/ LOA No.18/D.1195/2019 Dt.29.07.2019
8	Repairing and reconditioning of 110 KV class sick power transformers	Salem	TANTRANSCO	2019	Lr.No.CE/F.TP-I-02/19-20/ LOA No.25/D.1205/2019 Dt.29.07.2019
9	Repairing and reconditioning of 33 KV class sick power transformers (5MVA, 8MVA,16MVA)	Vellore	TANGEDCO	2024	Lr.No:CE/D/VLR/EE/Elec/ AEE/MM/F.W.C No. 001 / D.1954/23-24
10	Repairing, Erection, Testing and Commissioning of 42.5MVA	Mothugudem, AP	APGENCO	2021	4900032449
11	25MVA Transformer Servicing	GUDUR	NELCAST LTD.	2022	2200099066
12	21.6MVA Transformer Servicing	Chennai	Southern Railway	2010	No.J/TRD/29/I/10-11/03
13	Overhauling of 16MVA Power Transformer	Neyveli	NLC India Ltd	2020	TPS-I Expn./EM/T.No. 3595-TSIE[20-21]
14	16MVA Power Transformer Servicing	Bahour	Govt. of Puducherry Electricity Dept	2024	618/ED/SE-O&M/PR/EE- R(S)/ JE/e-Tender No.01 (23-24)/2024-2025
15	16MVA Power Transformer Servicing	Karaikal	Govt. of Puducherry Electricity Dept	2023	1/EDK/EE-KKL/JE/ F-E-Tender/22-23
16	10MVA Power Transformer Servicing	Mahe	Govt. of Puducherry Electricity Dept	2024	No.466/ED/SE-MP & Ors /EE-SPM & Bldgs./JE/ e-Tender No.05(23-24)/ 2024-25
17	10MVA Power Transformer Servicing	Yanam	Govt. of Puducherry Electricity Dept	2021	01/ED/EE-C&TTC/JE/ F-40Y/2021-22

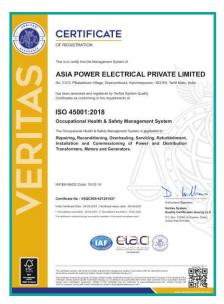
Our Major Projects

S. NO	Project Description	Location	Client	Date	РО			
18	Rewinding of 10MVA Furnace Transformer	Paloncha, Telangana	Ganesh Power Engineering Works	2021	GPEW/PVC/PO-2021023			
MOTOR SERVICE								
1	Overhauling of HT Moto	NPCIL,KKNPP	Voltech O&M Service Pvt Ltd	2024	VOMSPL/KS/WO-027/ 2024-25			
GENERATOR SERVICE								
1	Overhauling of 30MW Generator #2 & RLA Testing	Haldia Petrochemicals Ltd, Haldia	Voltech Engineers Pvt Ltd	2016	4006237			
2	Overhauling of 44/55MVA Generator Transformer & RLA Testing	Haldia Petrochemicals Ltd, Haldia	Voltech Engineers Pvt Ltd	2019	4006155			

Our Certifications







ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

Our Major Clients





































































Contact Details

Director



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Asst . General Manager - Transformer|Factory Head

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Mr. O. Sachithanantham

Technical Manager - Motor & Generator Service

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Mr. P. Sai Ram

Sr. Manager - Transformer Field Service

Mob: 91-8870759885

Mail ID: sairam.p@voltechgroup.com

Global Presence

International Locations:

ASEAN: Cambodia | Indonesia | Laos | Myanmar Malaysia | Singapore | Thailand | Vietnam

SAARC: Bangladesh | Nepal | Sri Lanka

Middle East Countries: Bahrain | Iraq | Jordan Kuwait | Oman | Qatar | Saudi Arabia | U.A.E

Africa: Algeria | Benin | Cote d'ivoire | Ghana Gubon | Kenya | Mali | Nigeria | Senegal

Tanzania | Uganda | Togo

Europe: Spain | Turkey | United Kingdom

CIS Countries: Uzbekistan

Domestic Locations:

Bangalore | Bhubaneswar | Bilaspur Chennai | Coimbatore | Guwahati Hyderabad | Kochi | Kolkata | Lucknow Mumbai | New Delhi | Raipur Vadodara | Vizag

Americas: USA, Brazil, Chile

Japan | South Korea

