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TUNNELS



HYDROELECTRIC



CONSTRUCTION



STRUCTURAL



METRO & RAIL



BRIDGES



MINING

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TUNNEL - METRO PROJECTS

| Project | Contractor/Client | Scope of works |
|---|---|--|
| Los Angeles Metro, USA | TBM Launch Shaft monitoring, Deep excavation monitoring Analysis and Solutions Consultants, Los Angeles | Supply of Instrumentation |
| | Tunnel Purple Line EXT 2, Utility Monitoring Analysis and Solutions Consultants, Los Angeles | Supply of Instrumentation |
| Copenhagen Metro, Denmark | ~15.5 km long, route proceeds through two parallel tunnel tubes, M3 and M4, including Sydhavn Metro Line Through Marketing Associate SMT Denmark ApS | Supply of Instrumentation |
| Grand Paris Metro, France | Line 16 and Charles De Gaulle Express metro tunnels Through Marketing Associate | Supply of Instrumentation |
| Lima Metro | Tunnel monitoring Through Marketing Associate Ofiteco | Supply of Instrumentation |
| | Gold Line ~13.5 km tunnel with 10 underground stations ALYSJ JV | Web base data monitoring of TBM tunnels, underground stations, NATM cross passages, station entrance emergency exits and structures within the zone of influence Pre and post-construction building condition survey |
| Doha Metro, Qatar | Green Line ~16.6 km tunnel with 8 underground stations VMT-Noack-MTEC JV | Monitoring of TBM tunnels, station boxes, trough structures Pre and post-construction building condition survey |
| | Major stations SOQ JV | Web base data monitoring of Msheireb & Education City underground stations Pre and post-construction building condition survey |
| Dubai Metro, UAE | Red Line ~ 5 km underground tunnel and 4 stations Obayashi-Kajima-Yapi Merkezi JV (JTMJV) | Supply, Installation and Monitoring |
| | Green Line ~ 5 km underground tunnel and 4 stations Obayashi-Kajima-Yapi Merkezi JV (JTMJV) | Supply, Installation and Monitoring |
| Expolink Route 2020 Metro Rail Project, UAE | Dubai Metro extension ExpoLink (Acciona, Gulermak, Alstom) | Web base data monitoring Supply, Installation, manual monitoring, online monitoring Pre-construction building condition survey |
| Oslo Metro. Norway | Pre-works for Metro Through Marketing Associate | Supply of Instrumentation |



| | Project | Contractor/Client | Scope of works |
|------------------------|--------------------------------------|--|---|
| Bangalore Metro, India | Package UG-1 | Coastal TTS JV | Supply, Installation and Monitoring |
| | Package UG-2 | CEC-Soma-CICI JV | Supply, Installation and Monitoring Pre and post-construction building condition survey (in few of them) |
| | Majestic station | Coastal TTS JV | Supply, Installation and Monitoring |
| Delhi Metro, India | Phase III - (Various sections) | Pratibha, JK Infra, L&T, Valecha, Era, HCC | Supply, Installation and Monitoring Pre and post-construction building condition survey (in few of them) |
| | Phase II - 20 km (Lines BC15- BC24) | L&T, Senbo, ITD CEC-Soma, MTG | Supply, Installation and Monitoring |
| | Phase II - 15 km (Lines C1-C7) | Senbo Engineering, Afcons, L&T, Alpine Samsung, Alpine HCC | Supply, Installation and Monitoring Pre and post-construction building condition survey (in few of them) |
| | Phase I - 14 km (Lines MC1A & MC1B) | International Metro Civil Contractors (IMCC) and KSHI | Supply, Installation and Monitoring |
| | Package UAA-01 | Afcons TTA JV | Supply, installation |
| Chennai Metro, India | Package UAA-02, UAA-03 | Gammon OJSC Mosmetrostroy JV | Pre and post-construction building condition survey |
| | Package UAA-04 | L&T-ECC-SUCG JV | Supply, installation |
| | Package UAA-05 | Afcons TTA JV | Pre and post-construction building condition survey |
| Kolkata Metro, India | Package UG-1 | Afcons TTA JV | Supply, installation |
| | Package UG-2 | ITD-ITD Cementation JV | Pre and post-construction building condition survey |
| Mumbai Metro, India | Package UGC-01 | L&T-STEC JV | Supply, installation and monitoring Pre-construction survey |
| | Package UGC-02 | HCC-MMS JV | Supply of instrumentation Pre-construction survey |
| | Package UGC-03 | Dogus-Soma JV | Pre-construction survey |
| | Package UGC-04 | CEC-ITD-TPL JV | Supply, installation and monitoring Pre-construction survey |
| | Package UGC-05 | J Kumar Infra - CRTG JV | Web base data monitoring for Vakola Flyover at Santacruz Supply, installation |
| | Package UGC-07 | L&T-STEC JV | Web base data monitoring Supply, installation Pre-construction survey |



| Project | | Contractor/Client | Scope of works |
|--|--|---------------------------------|-------------------------------------|
| Lucknow Metro, India | Underground Tunnel sections – 3 km | Tata –Gulermak JV | Supply and installation |
| Pune Metro, India | | Gulermak-TPL Jv | Supply of instrumentation |
| KBB Underground Station Project, Kolkata Metro, India | Station Yard | KMRC-ITD | Supply, installation and monitoring |
| Jaipur Metro, India | | ITD-ITD Cementation JV | Supply and installation |
| Izmir Metro, Turkey | | EGE Temel | Supply of instruments |
| Barcelona – El Prat Airport T1 Rail Access Tunnel, Spain | Construction of a 3,385 m long TBM tunnel, running below the C-31 Highway, the airport Terminal 2 building and the airport airstrips | Through Marketing Associate | Supply of instruments |
| Singapore metro Downtown Line Stage 2 & 3, Singapore | Eleven LTA contracts | Through Trittech | Supply of instruments |
| Scotts Tower Condominium | North South Line MRT Tunnels between Newton and Orchard MRT Station | Through Trittech | Supply of instruments |
| Ankara-Sivas High Speed Railway Project, Turkey | | MBEC-Cengiz-Limak-Mapa-Kolin JV | Supply of instruments |
| Ankara-Istanbul High Speed Train Project, Turkey | | CIB-Cengiz –Ictas-Belen JV | Supply of instruments |
| Bucharest Metro, Romania | | Through Marketing Associate | Supply of instruments |
| Torino Metro, Italy | | Through Marketing Associates | Supply of instruments |
| Athens Metro, Greece | | Through Marketing Associates | Supply of instruments |
| London Metro, England | | Through Marketing Associates | Supply of instruments |
| Santiago Metro, Chile | | Through Marketing Associates | Supply of instruments |
| Ankara Metro, Turkey | | Through Marketing Associates | Supply of instruments |
| Istanbul Metro, Turkey | | Through Marketing Associates | Supply of instruments |
| Taiwan Metro, Taiwan | | Through Marketing Associates | Supply of instruments |
| Hong Kong Metro | | Through Marketing Associates | Supply of instruments |



TUNNEL - SEWAGE, STORM WATER PROJECTS

| Project | Contractor/Client | Scope of works |
|---|--|-------------------------------------|
| North East Boundary Tunnel, USA | Entech, USA | Supply of Instrumentation |
| Muharraq STP Project, Bahrain | Samsung Engineering Co. Ltd. | Supply, Installation and Monitoring |
| | Contract T01: 13 km main sewer deep gravity tunnel | Samsung C&T Corporation, Korea |
| | Contracts T02 & T03: 25.5 km main sewer deep gravity tunnel | Impregilo, Italy |
| Strategic Tunnel Enhancement Programme (STEP) Project, UAE | Contracts LS01 and LS02: 40 km link sewer deep gravity tunnels | Zublin, Germany |
| | Contract PS01: 100 m deep x 55 m dia underground Pump Station One of the deepest and largest underground pump station. | Odebrecht, Brazil |
| Inner Doha Re-sewerage Implementation Strategy (IDRIS), Qatar | Main Trunk Sewer Tunnel - Contract MTS-01, MTS-02 & MTS-03 | ACTS, Doha |
| Deep Tunnel Storm Water Terminal Pumping Station and Sea outfall, UAE | Contract DS-233/1 | Archirodon |
| Musameer Pumping UMPING Station & Outfall, Qatar | Pumping station & Sewerage tunnel under sea | AUCC |
| Project DS 197/1(AI-Kharafi) | Sewerage system for interconnecting developed communities in Jebel Ali Area to DM Networks | Dubai Municipality |



TUNNEL - RAIL, ROAD PROJECTS & UNDERGROUND CAVERNS

| Project | Contractor/Client | Scope of works |
|---|--|---|
| Baltimore Light Rail Tunnel, USA | Culvert monitoring Foundation Test Group, USA | Web base online monitoring; Supply and automatic monitoring |
| I-75 Tunnel, USA | Highway construction NTH, USA | Web base online monitoring; Supply and automatic monitoring |
| Sheikh Zayed (Al Salam) Street Tunnel Project, UAE | 4-lane road tunnel – cut and cover, 3 km long; 4 interchange underpasses, each 1 km long Samsung – Saif Bin Darwish Joint Venture/Parsons | Supply, installation, drilling, surveying and data monitoring Pre-construction building/structure condition survey |
| NDM tunneling for storm water pipeline under Corniche road, UAE | 56 m tunnel, 1.8 m dia, 4 m below GL in silty soil, under busy Corniche Road Samsung – Saif Bin Darwish Joint Venture | Supply, Installation and Monitoring |
| Al Rayyan Road Project 7 Contract 2, Qatar | West of Olympic Roundabout to West of New Rayyan Roundabout. Construction and Upgrade of Road Doğuş-Onur JV | Supply, Installation and Monitoring |
| Gruškovje tunnel, Slovenia | Motorway Through Marketing Associate | Supply of instruments |
| Chenani-Nashri Road Tunnel Project, India | ~ 9 km two lane tunnel T74R, T77B, T-77C, T49B tunnels Leighton | Supply and Installation |
| Banihal- Qazigund Road Tunnel Project, India | ~ 9 km four lane tunnel Navyug | Supply of Instruments |
| NDRC, 132/11 kV Substation and Associated Works | Cross Road | |
| Rohtang Road Tunnel, India | ~ 8.8. km, one of the longest road tunnel in India Strabag-Afcons JV/BRO | Supply of Instruments; Carrying out tests by TSP System of Amberg |
| Sivok-Rangpo Rail Line Project, India | 14 tunnels with total length 38.5 km, monitoring of T8, T9, T10 tunnels Apco Infra, ITD/IRCON | Supply, Installation and Monitoring |
| Kiratpur-Ner Chowk Site, India | ~ 5 km, 5 road tunnels HP/IL&FS Engineering | Supply and Installation |
| Gulbarga Rail Line Project, India | ~1.7 km tunnel at Margutti Bidar Gulbarga, SC Railways | Supply and Installation |
| Pir Panjal Railway Tunnel Project, India | ~ 11.5 km Zone-V; Laole-Qazikund section and Zone-III Khari section, T-73, T-80 & T69 tunnels HCC/Ircon International Limited | Supply, Installation and Monitoring |



| Project | Contractor/Client | Scope of works | |
|--|---|---|-------------------------------------|
| Udhampur- Srinagar- Baramulla Rail Link Project, India | ~ 90 km Srinagar - Baramulla Rail Link Project (Konkan Banihal) – T1-T47 tunnels | Konkan Railway Corporation Limited | Supply, Installation and monitoring |
| | ~8.5 km Zone-IV A & IV in Dharam-Qazigund section | HCC/Ircon International Limited | Supply, Installation and monitoring |
| | ~116.6 km to 125 km on Katra Banihal section, T-74R, T-77B,T-77C | HCC/Ircon International Limited | Supply, Installation and monitoring |
| | ~ 13 km tunnel in Riyasi, T-13 and Part T-14 tunnels, | HCC/Konkan Railway Corporation Limited | Supply, Installation and monitoring |
| | ~8 km T49B tunnel, ~8.5 km T-74 tunnel in Khari | Afcons/Ircon International Limited | Supply, Installation and monitoring |
| Northeast Frontier Railway, India | Tunnels: Jiribam-Tupul, Imphal – 5 tunnels | NFR | Supply, Installation and Monitoring |
| | Contract I6057: T-1 to T-9 & I6066_T-12 for tunnels | Geoconsult India Pvt. Ltd. | Supply, Installation and Monitoring |
| | I6072_Lumding-Silchar | Geoconsult -Rites JV | Supply, Installation and Monitoring |
| Dohazari to Cox's Bazar Via Ramu Project, Bangladesh | 102 km New Duel single railway line, through 184 bridges, 9 station buildings, platforms and sheds. | Raybon Toma Constructions | Supply and Installation |
| Mumbai Mono Rail, India | Pile Load Testing and Bridge Instrumentation | L&T-SCOMI JV/ MMRDA | Supply of Instruments |
| Lyon-Turin Rail Tunnel, France | ~57 km long base tunnel | Through marketing associate | Supply of Instruments |
| East West Highway Project, Algeria | ~5.6 km long tunnel | Taesei Corporation, Japan; Cojaal (c/o Itochu Corporation) Consultant | Supply of Instruments |
| Brenner Base Tunnel (Italy to Austria) | ~ 55 km long tunnel | Through marketing associate | Supply of Instruments |
| Platamonas tunnel, Greece | Tunnel sections | Through marketing associate | Supply of Instruments |
| Egnatia Motorway, Greece | ~ 680 km long – Anilio and Anthochori tunnels | Through marketing associate | Supply of Instruments |
| CCSA Subway Tunnel Line H Project, Argentina | Tunnel sections | Through marketing associate | Supply of Instruments |
| Istanbul Strait Road Tube Crossing Project, Turkey | ~ 5 km Eurasia tunnel | Yapi Merkezi Insaat ve Sanayi A.S. and SK Engineering & Construction Co.Ltd. JV | Supply of Instruments |



| Project | | Contractor/Client | Scope of works |
|--|---|-----------------------|-------------------------------------|
| Marmaray CR1 Project, Turkey | Rail/Road Tunnel and Underground Caverns Project | Dogus Insaat | Supply of Instruments |
| Express Railway Contract XRL820 & 821 | 3 km long bore tunnel, part of Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link | Through VSL, Thailand | Supply of Instruments |
| Tuen Mun - Chek Lap Kok Northern Subsea Connection | Dual 2-lane sub-sea tunnel, reclamation at Tuen Mun Area 40 for the northern landfall of the tunnel | Through VSL, Thailand | Supply of Instruments |
| Liangtang Site Formation and Infrastructure Works | 11 km long dual-2 lane trunk road with about 5.7 km of TBM Tunnel connecting the new Boundary Control Point | Through VSL, Thailand | Supply of Instruments |
| Vizag Cavern Project, India | ~ 3.3 km length, ~30 m height, ~22 m width | HCC/EIL-Sweco, ISPRL | Supply, Installation and Monitoring |
| Padur Cavern Project, Mangalore, India | ~ 2.7 km running length, ~ 31.5. m (h), ~ 20 m (w) | HCC/EIL/ISPRL | Supply, Installation and Monitoring |



INFRASTRUCTURE - EXISTING BUILDINGS, BRIDGES & TUNNELS

| Project | Contractor/Client | Scope of works | |
|--|---|--|---|
| Harry Nice Bridge, USA | Existing bridge monitoring | Foundation Test Group, USA | Web base data monitoring Supply and automatic monitoring |
| I-78 Easton Road, USA | Bridge abutment, Slope monitoring of existing bridge | AGES, USA | Web base data monitoring Supply, Installation and Automatic Monitoring |
| Malcolm X Bridge, USA | Existing bridge monitoring | Foundation Test Group, USA | Web base data monitoring Supply and automatic monitoring |
| Delaware Bridge, USA | Bridge replacement | Wang Tech, USA | Supply of instrumentation |
| Deira Waterfront Development, Plot 11 Contract, UAE | Monitoring existing Red Line tunnel and shoring works during Multi Level Car Park construction in vicinity | AI Futtaim Carillion, Dubai | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Deira Waterfront Development, Plot 13 Contract, UAE | Monitoring of existing Green Line tunnel, Shindagha tunnel and shoring works during Multi Level Car Park construction in vicinity | ICD, Dubai Civil Engineering LLC | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Deira Waterfront Development, Plot 11B Contract, UAE | Monitoring of existing Green Line tunnel and shoring works during construction of retail/hotel (B+G+4F) project in close vicinity | ICD, Dubai Civil Engineering LLC | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Deira Waterfront Development, Plot 2 Contract, UAE | Monitoring of existing Green Line tunnel and shoring works during construction of Mixed use development project above the metro line | ICD, HSSG | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Deira Waterfront Development, Plot 4 Contract, UAE | Monitoring of existing Green Line Metro tunnel & Palm Deira station, shoring works during construction of Bus terminal, hotel, office tower above metro station | Ithra, ALEC | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Masra Al Seef Project, UAE | Monitoring of existing Red Line Metro Tunnel and adjacent ground surface during heavy construction activities in close vicinity | Dutco Balfour Beatty/WS Atkins/Halcrow | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| One Za'abeel ICD Headquarters, UAE | Monitoring of existing Al Saa'da Bridge and shoring works during construction of two towers on either side of Bridge | ICD, APCC Piling & Contracting L.L.C. | Web base data monitoring Supply, installation, manual + automatic monitoring, automatic survey |

| Project | | Contractor/Client | Scope of works |
|---|---|--|---|
| Dubai Water Canal Infrastructure, UAE | Monitoring of existing metro line piers during Package-3 Canal and Coastal Works (R999/3) construction in close vicinity | Belhasa Six Construct L.L.C (Besix)/RTA | Web base data monitoring Supply, installation, manual + automatic monitoring, automatic survey |
| Improvement of Al Shindagha Corridor - Sana Junction, UAE | Monitoring of existing Red Line Metro piers and adjacent ground surface Underpass structures construction in close vicinity | Wade Adams Contracting LLC/RTA | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Langham Place, UAE | Monitoring of MSE wall for Hotel and Service Apartments | Omnayat Properties Ten Limited | Web base data monitoring Supply, installation, automatic monitoring, geodetic survey |
| Al Garhoud Maintenance Facility Package-1, UAE | Monitoring of existing bridge piers during construction of Marine Works - quay wall | Dutco Balfour Beatty | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| Mediclinic Healthcare City Project, UAE | Monitoring of existing metro station and shaft during construction works of the project | Kele Contracting | Supply, installation and monitoring |
| Plot-1240953, UAE | Monitoring for running metro tunnel during construction of mixed use development project (G+M+3P+7+2R) in close vicinity | National Piling Company | Web base data monitoring Supply, installation, monitoring + geodetic survey |
| Bromma Piloten Airport Project, Sweden | Existing bridge safety monitoring during construction of new tramway between Bromma Airport and Helenelund | Through Marketing Associate in Sweden | Supply of instruments |
| M1009/B1- Routine Maintenance Of Bridge Structures, UAE | Pier monitoring during bridge maintenance work | Waagner Biro Gulf L.L.C. | Web base data monitoring Supply, installation, automatic monitoring, automatic survey |
| EXW-P007-Al Bustan Street South, Qatar | Monitoring of existing sewage tunnel during construction of flyover over it. | Hyundai Engineering & Construction Co Ltd-Qatar. | Web based online monitoring Supply, installation and monitoring |



HIGH-RISE BUILDINGS, DEEP EXCAVATIONS, FOUNDATIONS

| Project | Contractor/Client | Scope of works | |
|---|--|---|---|
| One Za'abeel ICD Headquarters, UAE | Foundation works, the two towers (during construction) & existing highway bridge between the towers | ICD, APCC Piling & Contracting L.L.C. | Web base data monitoring Supply, installation, manual + automatic monitoring, automatic survey |
| Marina Bay Sands-Hotel Towers, Singapore | Three 57 storey hotel towers, ~ 200 m tall | Syseng, Singapore | Web based online monitoring of foundation and the curved structure during construction. |
| Kifaf Development Plot-5, UAE | Tower verticality and 3D deformation monitoring | AL Kifaf Real Estate Development LLC, UAE | Supply, Installation and Monitoring |
| Jumeirah Gate Tower JBR, UAE | Tower verticality and 3D deformation monitoring, has World's highest swimming pool (Infinity pool) | AI Aseed Investments, UAE | Supply, Installation and Monitoring |
| Adventure Center at Jebel Jais, UAE | Structure at one of the highest cliff | Ras Al Khaimah Tourism Development Authority | Supply, Installation and Monitoring |
| Vida Dubai Mall, UAE | Tower verticality and 3D deformation monitoring | Shapoorji Pallonji Mideast LLC, UAE | Supply, Installation and Monitoring |
| ICD Brookfield Place, UAE | Deep Foundation, Raft Monitoring, shoring works, Settlement and building movements during construction | Brookfield Multiplex Ssangyong Joint Venture | Web base data monitoring Supply, Installation and Monitoring + geodetic survey |
| Deira Waterfront Development, Plot 03 Contract, UAE | Shoring works/deep excavation; Hotel construction | AI Futtaim Carillion, Dubai | Web base online monitoring; Supply and Installation |
| Deira Waterfront Development, Plot 01 Contract, UAE | Monitoring of shoring works during Mixed use development project construction in vicinity | China State Construction Engrg.Corp (Middle East LLC) | Supply, Installation and Monitoring |
| Moxy Hotel, Austin Texas, USA | Deep excavation monitoring | IGS, USA | Web base online monitoring; Supply, Installation and Automatic Monitoring |
| 36 East 61th Street, USA | Building tilt monitoring | IGS, USA | Web base online monitoring; Supply, Installation and Automatic Monitoring |
| Governor Mansion, USA | Building construction monitoring | IGS, USA | Web base online monitoring; Supply and Automatic Monitoring |
| Shell Cracker Plant, USA | Industrial plant construction monitoring | Fugro, USA | Supply of instruments |
| B4 Residential Tower, UAE | Structural monitoring works. Monitoring the lateral and vertical movements of the B4 tower | Emaar Development PJSC | Supply, Installation and Monitoring |



| Project | Contractor/Client | Scope of works | |
|---|--|---|--|
| Project E323, UAE | Proposed comm/res building (2b+G+M+Tech FI+4+Roof). Monitor ground conditions during deep excavation | Mr. Saeed Mohd Ahmad Al Tayer | Supply, Installation and Monitoring |
| Plot No. PJTRH04G at Palm Jumeirah, UAE | Res building (2B+G+11). Monitor ground conditions, shoring and existing building during deep excavation | Alpago Investment And Holding Limited | Supply, Installation and Monitoring |
| Shindagha Site Bur Dubai, UAE | Deformation monitoring for the structure | SRG Global, UAE | Supply, Installation and Monitoring |
| Lodha World One Residential Tower, India | 117 storey tallest residential tower in the World; Foundation monitoring | Lodha Developers/ Langan International | Supply of instruments |
| Yas Mall, UAE | Apple enabling works | AL Tayer Stocks LLC, UAE | Web base online monitoring Supply, Installation and Monitoring |
| Sky Venture, UAE | Secant piles and soil monitoring | Zublin Construction L.L.C | Web base data monitoring Supply, installation, automatic monitoring and geodetic survey |
| AGMC BMW Showroom, UAE | Commercial building (2B+G+M+2 Floor), foundation | Dubai Civil Engineering | Supply, Installation and Monitoring |
| STEP Odour Control Facilities, UAE | Diaphragm wall and soil to provide settlement, deflection and deformation data | ADSSC, Kharafi National | Supply, installation, monitoring and geodetic survey |
| Burj Khalifa, UAE | 818 m tallest building in the world; Foundation monitoring | Bodycote | Supply of instruments |
| Corniche Hotel Project, UAE | Foundation/D-wall monitoring | Soil Foundation Technology | Supply, Installation and Monitoring |
| City Seasons Hotel Project, UAE | Foundation/D-wall monitoring | Saile Foundations L.L.C. | Supply, Installation and Monitoring |
| UMM Al Quwain Independent water 150 MIGD Project, UAE | Foundation/D-wall monitoring | China Railway 18th Bureau Group LLC | Supply, Installation and Monitoring |
| Jumeirah Village Project, UAE | Foundation/D-wall monitoring | Pilex | Supply, Installation and Monitoring |
| Meena tower, UAE | Foundation/D-wall monitoring | Arabian Construction Company | Supply, Installation and Monitoring |
| Al Zaabi Tower, UAE | Foundation/D-wall monitoring | Middle East Foundation Group LLC | Supply, Installation and Monitoring |
| Trident Hotel, UAE | Foundation/D-wall monitoring | Afcons | Supply, Installation and Monitoring |
| Masdar City, UAE | Foundation monitoring, pile testing | Arabian Foundation Engineering LLC | Supply, Installation and Monitoring |



| | Project | Contractor/Client | Scope of works |
|--|--|--|---|
| Mankhool Service Hotel, UAE | Foundation/D-wall monitoring of apartment/ residential building | Stromek | Supply, Installation and Monitoring |
| Tamdeen High Rise Building Project, UAE | Shoring works/D-wall monitoring | Zetas Zemin Teknolojisi A.S | Supply, Installation and Monitoring |
| Al Muteena – Building no. 123-547, UAE | Commercial/Residential Building; Shoring & dewatering works | General Construction Company LLC | Supply, Installation and Monitoring |
| Plot No. 1280371, UAE | Commercial Building (B+G+M), foundation | Khan Saheb and ALC | Geodetic survey |
| Plot no. 3180294, UAE | Monitoring of shoring works for Mixed use development project (2B+G+M+5) | Rabat Foundation | Supply, Installation and Monitoring |
| Ghantoot Building, UAE | Foundation/D-wall monitoring | Al Hai Al Mukaddam | Supply, Installation and Monitoring |
| High rise building, UAE | Mixed use development project/D-wall | Edrafor Emirates LLC | Supply, Installation and Monitoring |
| High rise building, UAE | Office and Residential Tower, 27 level/Foundation | Al Hai Al Mukaddam | Supply, Installation and Monitoring |
| Plot No. 133-539, UAE | Mixed use development (2B+G+6) project/D-wall | JSCOM Contracting LLC | Supply, Installation and Monitoring |
| Al Ashram Point, UAE | Mixed use (commercial +hotel) development project (3B+G+M+R) /D-wall | Torque Piling and Technology | Vibration monitoring |
| Damac Heights Project, Dubai Marina, UAE | Foundation/D-wall monitoring | Zetas Zemin Teknolojisi A.S | Vibration monitoring |
| Convention Centre, Qatar | 108 storey tower; Foundation monitoring | Ammico Contracting Co. WLL, Doha | Supply of instruments |
| Al Quid Towers, Qatar | 100 storey tower; Foundation monitoring | Ammico Contracting Co. WLL, Doha | Supply of instruments |
| Lusail Development - Irrigation TSE reservoir (IR3), Qatar | Foundation works monitoring | Arab Center, Qatar (for Sino Hydro, China) | Supply and Installation |
| CP07B-Project in Lusail, Qatar | Underground tunnel and tunnel road monitoring | ACTS, Doha | Supply, Installation and Monitoring |
| Bomonti Time Residence, Turkey | 48 storey, 195 m tall | Sinpas Gyo | Supply of instruments |
| Univ. do Minho Project, Portugal | Slab monitoring | Geolnt, Portugal | Supply of instruments |
| Nova East & Nova West Project, India | Foundation monitoring | Supertech Ltd. | Supply and Installation of Instruments for Raft |



| Project | Contractor/Client | Scope of works | |
|--|---|--|---|
| Project Wallich at Tanjong Pagar, Singapore | Proposed mixed use development at Peck Seah Street/Choon Guan | Through Trittech | Supply of instruments |
| Project Duo Mixed Development, Singapore | Mixed development at Ophir/Beach/Rochor Road (Bugis MRT Station and Tunnels) | Through Trittech | Supply of instruments |
| Resort World, Singapore | Project at Sentosa Crane Dance, Structural foundation stability and structural dynamics measurements | Through Trittech | Supply of instruments |
| Suites@Orchard, Singapore | Proposed Erection of a Housing Development at 20 Handy Road (NEL MRT Tunnels at Dhoby Ghaut) | Through Trittech | Supply of instruments |
| National Heart Centre, Singapore | Proposed erection of the NHC Singapore on Lot 00467K TS22 at Hospital Drive | Through Trittech | Supply of instruments |
| Market Street Tower Project | Proposed 36 Storey Commercial Building with offices, 5 basement carparks with ancillary services at Market Street | Through Trittech | Supply of instruments |
| Changi General Hospital | Proposed development of a 8 storey integrated building with 2 basements carpark | Through Trittech | Supply of instruments |
| Tuen Mun - Chek Lap Kok Toll Plaza, Thailand | Part of the Tuen Mun – Chek Lap Kok link with 17 toll booths, associated approach roads, buildings and facilities | Through VSL, Thailand | Supply of instruments |
| Grain Godown Building, India | Pile testing for foundation | NIT Trichy under civil suppliers corporation of Tamil Nadu | Supply, installation, monitoring and training |
| Pasir Panjang Expressway, Singapore | Pile testing | SysEng, Singapore | Supply of Instrumentation |
| New Phosphate Rock Terminal, Jordan | Pile testing | Through Marketing Associate | Supply and Installation |
| KPIZ Project, UAE | Pile testing | Through Marketing Associate | Supply of Instrumentation |
| Hotel Site at Khalifa City, UAE | Pile testing | Baynunah Laboratories | Supply of Instrumentation |



HISTORICAL MONUMENTS

| | Project | Contractor/Client | Scope of works |
|--|---|-----------------------------|--|
| Mirani Fort, Muscat, Oman | 200 years old Historical fort on hill top beside sea; slope monitoring for restoration works | Al-Manar International | Web based online monitoring system for slope monitoring |
| Cabo Fort, Governor's Bungalow, Goa | 1 st & 2 nd phase; Historical fort beside sea; structure stability monitoring | ITD Cementation/ GSI/WRD | Web based online monitoring system for the fort |
| Expansion of the Al Masjide Al Haram, Saudi Arabia | Foundation/raft | Through marketing associate | Supply of Instruments |
| Basilica of S. Maria Assunta Carignano, Italy | Structure monitoring for restorations works | G.D. Test | Web based online monitoring system |
| Qasr Al Hosn CFB and Master Plan Main Works Package-5, Abu Dhabi | Cultural Heritage structure | Zublin Construction LLC | Pre-condition and Architectural survey |



BRIDGES, HIGHWAYS & RAILWAYS

| | Project | Contractor/Client | Scope of works |
|---|--|---|---|
| | Package 2D, C0308 | China Railway Construction Corporation Ltd. (CRCC)- Abu Dhabi | Supply, Installation and monitoring |
| | Package 2D, Stage 2, Subcontract no. I027 - TBMS - MR-NPC-20-05-0167-AUTOBOT-217000 | National Projects & Construction LLC (NPC) - Infra | Supply, Installation and monitoring |
| | Package 2D | CRCC - NPC JV | Supply, Installation and monitoring |
| Etihad Rail Project, UAE | Project stage 2, Contract C0303 Package A | China State - SK Engineering and Construction - JV | Supply, Installation and monitoring |
| | Stage 2, Package 2C | China Railway & Gantoot Trans JV, (CRCC-GTGC JV) | Supply, Installation and monitoring |
| | Package 2C, Stage 2, Subcontract no. C0306-CGT-SCS-CC-00010 | China Railway & Gantoot Trans JV, (CRCC-GTGC JV) | Supply, Installation and monitoring |
| | Stage 2 & 3 Project D0203 – Package 2F2 Freight Facilities | L&T Power -China Railway JV | Supply, Installation and monitoring |
| Bogibeel Bridge, Assam | Rail-Cum-Road Bridge, load testing monitoring | HCC/NFR | Supply, Installation and monitoring |
| Harry Nice Bridge, USA | Existing bridge monitoring | Foundation Test Group, USA | Web base data monitoring Supply and automatic monitoring |
| I-78 Easton Road, USA | Bridge abutment, Slope monitoring of existing bridge | AGES, USA | Web base data monitoring Supply, Installation and Automatic Monitoring |
| Malcolm X Bridge, USA | Existing bridge monitoring | Foundation Test Group, USA | Web base data monitoring Supply and automatic monitoring |
| Delaware Bridge, USA | Bridge replacement | Wang Tech, USA | Supply of instrumentation |
| East Midtown Greenway, USA | Highway construction | Wang Tech, USA | Supply of Instrumentation |
| S7 Expressway, Poland | Expressway | Through Marketing Associate | Supply of Instrumentation |
| Al Saa'da Bridge, part of One Za'abeel Project, UAE | Monitoring of existing highway bridge during construction of two towers on either side of Bridge | ICD, APCC Piling & Contracting L.L.C. | Web base data monitoring Supply, installation, manual + automatic monitoring, automatic survey |
| 2nd Bridge on Narmada river (NH-8) | Balanced cantilever type bridge | L&T-ECC/Dar Consultants, UK | Supply and Installation |



| | Project | Contractor/Client | Scope of works |
|--|--|--|---|
| Chiraiyatand Bridge, Patna | 4 lane cable stayed bridge | BBR/IRCON | Supply and Installation |
| Naini Bridge, Allahabad | Cable stayed bridge | Kowi-Span/NHAI | Supply and Installation |
| Second Vivekananda Bridge Toll way Project, Kolkata | Cable stayed bridge | L&T ECC Division | Supply, Installation and Monitoring |
| Allahabad Bypass Bridge Project (Ganga Bridge Project) | 1 km long bridge | L&T ECC Division and The Freyssinet Pre-stressed Concrete Co. Ltd. | Supply and Installation |
| Izmit Bay Bridge, STFA, Turkey | Suspension Bridge | IHI | Supply of Instrumentation |
| Jaipur-Kishangarh Expressway, India | NH-8 Expressway Road Project | Jaipur Kishangarh with L&T/GVK Becom, French Engineering Consultants | Supply, Installation and Monitoring |
| Mapagunal, UAE | Gantry on Metro track for Bridge Construction | Mapa Gunal Construction Company | Supply, Installation and Monitoring |
| R1045 Improvement of Interchange Sheikh Zayed Road, UAE | Gantry on Metro track for Bridge Construction | Mapa Gunal Construction Company | Web base data monitoring Supply, installation, monitoring and geodetic survey |
| R921/1B Improvement of Al Wasl Road Phase-1 Interchange 2.5, UAE | Gantry on Metro track for Bridge Construction (Survey Gantry) | China State Construction Engrg.Corp (Middle East LLC) | Supply, Installation and Monitoring |
| Design & Build of Pedestrian Bridge, Qatar | Construction of piers and extension of pedestrian bridge; extension from existing Qatar Rail Bridge to Qatar Petroleum District, Qatar | Al Balagh - PORR JV | Supply, Installation and Monitoring PPCCS |
| Industrial Ring Road Cable Stayed Bridge, Bangkok, Thailand | 2 cable stayed bridges, each with ~700 m main span over Chao Praya River | Through VSL, Thailand | Supply of instruments |
| Rach Mieu Cable Stayed Bridge, Tiền Giang, Vietnam | 2 m wide deck, 270 m main span cable stayed bridge between Tiền Giang & Bến Tre, Vietnam | Through VSL, Thailand | Supply of instruments |
| Forth Replacement Crossing, Lothian, Scotland | 650m main span cable stayed bridge between Lothian and Fife, Scotland | Through VSL, Thailand | Supply of instruments |
| Second Penang Cable Stayed Bridge, Penang, Malaysia | 240 m main span cable stayed bridge between Batu Kawan and Seberang Perai, Malaysia | Through VSL, Thailand | Supply of instruments |
| Stonecutters Cable Stayed Bridge, Kwai Chung, Hong Kong | 1018 m span length cable Stayed bridge between Kwai Chung and Tsing Yi, Hong Kong | Through VSL, Thailand | Supply of instruments |



| | Project | Contractor/Client | Scope of works |
|--|--|-----------------------|-----------------------|
| Hong Kong Link Road, Chek Lap Kok, Hong Kong | 9.4 km in length viaduct connected between the Hong Kong Boundary Crossing Facilities and the Zhouhai Main Bridge, Hong Kong | Through VSL, Thailand | Supply of instruments |
| Aberdeen Channel railway bridge, MTR SIL903 | 2 km of viaduct, a 115-m long Aberdeen Channel railway bridge | Through VSL, Thailand | Supply of instruments |
| South Beach Mixed Development | Beach Road | Through Trittech | Supply of instruments |



DAMS AND HYDROELECTRIC PROJECTS

| Project | Contractor/Client | Scope of works |
|--|--|---|
| India and neighboring countries | | |
| Idukki Dam, India (DRIP) | Double Arch dam; Real time structural health monitoring & early warning system KSEB | Web Based Data Monitoring Supply, Installation |
| DRIP-Kerala Irrigation, India | Real time structural health monitoring of 16 dams Kerala Irrigation | Web Based Data Monitoring Supply, Installation (under execution) |
| DRIP – Pollachi, India | Real time structural health monitoring of 17 dams TNWRD | Web Based Data Monitoring Supply, Installation (under execution) |
| DRIP - TANGEDCO I and II, India | Real time structural health monitoring of 24 dams TANGEDCO | Web Based Data Monitoring Supply, Installation (under execution) |
| Tala Hydroelectric Project, Bhutan | Concrete gravity dam HCC/THPA/ WAPCOS | Supply, Installation and Monitoring |
| Chukkha Hydro Power Corporation (CHPCL) Bhutan | Underground power house and surge shaft CHPCL/WAPCOS | Supply and Installation |
| Dagachhu Hydro Power Project, Bhutan | Concrete gravity dam, power house, diversion weir, desilter, HRT, surge tank, pressure shaft & transformer cavern HCC/DHPC/Druk Green Power Corporation | Supply, Installation and Monitoring |
| Punatsagchhu-I Hydroelectric Project, Bhutan | Underground structures of Power house HCC/PHPA/ WAPCOS | Supply, Installation and Monitoring |
| | Slope stability monitoring L&T/PHPA | Supply, Installation and Monitoring |
| Punatsagchhu-II Hydroelectric Project, Bhutan | Underground structures of Power house Jaiprakash/PHPA-II/WAPCOS | Supply, Installation and Monitoring |
| Mangdechhu – I Hydroelectric Project, Bhutan | Concrete gravity dam, HRT and power house Jaiprakash/NHPC | Supply, Installation and Monitoring |
| Middle Marsyangdi Hydroelectric Project, Nepal | Earth & rockfill dam, surge shaft, pressure shaft, concrete spillway, tunnels, power house Dywidag - Dragados - CWE/Fichtner Consultants, Germany/NEA | Supply and Installation |
| Tehri Hydroelectric Project, India | Earth and rockfill dam, power house & tunnels THDC | Supply and Installation |
| | Spillways THDC | Supply, Installation and Monitoring |



| Project | | Contractor/Client | Scope of works |
|--|---|--|---|
| Shapurkandi Project, India | Concrete gravity dam | Soma | Web Based Data Monitoring Supply, Installation |
| Koldam Hydroelectric Power Project, India | Earth and rockfill dam & Spillways | ITD/NTPC | Supply, Installation and Monitoring |
| | Teesta VI: Barrage, HRT & power house | HCC/Lanco | Supply and Installation |
| TEESTA Hydroelectric Project, India | Teesta V: Concrete gravity dam, power house, HRT, desilting chamber & surge shaft | Jaiprakash/NHPC | Supply, Installation, Monitoring and AMC |
| | Teesta Low Dam-IV: RCC dam, power house, HRT & desilting chamber | HCC/NHPC | Supply, Installation and AMC |
| | Teesta Low Dam-III: Barrage, slope & abutment | Patel-Simplex/ NHPC | Supply, Installation and AMC |
| | Teesta III: Dam, power house & HRT | Abir Infratech | Supply, Installation and Monitoring |
| Tapovan Vishnugad Hydroelectric Power Project, India | Penstock, Power house & butterfly valve chambers | Patel/NTPC | Supply, Installation and Monitoring |
| | Barrage | Rithwik/NTPC | Supply, Installation and Monitoring |
| | HRT | L&T-AM JV/NTPC | Supply and Installation |
| Lower Subansiri Hydroelectric Project, Assam, India | Concrete gravity dam | Soma/NHPC | Supply, Installation and Monitoring |
| | Underground works | L&T/NHPC | Supply, Installation and Monitoring |
| Shongtong Karcham Hydroelectric Project, India | Diversion barrage (Sloping Glacis type) | Patel/WAPCOS | Supply, Installation and Monitoring |
| | Slope monitoring | HPPCL/WAPCOS | Supply, Installation and Monitoring |
| Pattissery Dam Project, India | Earth dam | Kerala Irrigation/ Paulose George Construction | Supply, Installation and Monitoring |
| Kundah HEP, India | Head race tunnel, surge Chamber, power house, | Patel Engineering | Supply, Installation and Monitoring |
| JSW Steel Project, India | Earth dam | JSW Steel | Web based online monitoring Supply, Installation |
| Kaleswaram-Sundella Barrage, India | Concrete Barrage | Navyuga Engineering | Supply and Installation |
| Kaleswaram-Medigadda Barrage, India | Concrete Barrage | L&T/TS Irrigation | Supply and Installation |
| Kaleswaram-Thukulagudem Barrage, India | Concrete barrage | Rithwik/TS Irrigation | Supply and Installation |

| Project | | Contractor/Client | Scope of works |
|--|--|--|-------------------------------------|
| Polavaram Dam, India | Concrete gravity dam | MEIL/Navyuga engineering Limited/AP Irrigation/CWPRS | Supply and Installation |
| Yargol dam, India | Concrete gravity dam | Vaveda Infra, KUWS & DB | Supply and Installation |
| Parnai Hydroelectric Project, India | Barrage, Head race tunnel | Patel/NHPC | Supply and Installation |
| Chaudhary Charan Singh Lachura Dam Irrigation Project, India | Concrete & masonry dam | Irrigation Department/ Engineer Project Limited | Supply, Installation and Monitoring |
| Uri Hydroelectric Project, India | Concrete gravity dam, HRT & Power House | HCC/NHPC | Supply, Installation and Monitoring |
| Indira Sagar Project, India | Concrete gravity dam & Power House | NHDC | Supply, Installation and Monitoring |
| Kishan Ganga Hydroelectric Project, India | Concrete face rockfill dam | NHPC HCC-Halcrow JV / NHPC | Supply, Installation and Monitoring |
| Akash Ganga Project, India | Dam | TTD | Supply, Installation and Monitoring |
| Ujh Dam, India | Barrage | CWC Jammu | Supply, Installation and Monitoring |
| A.V. Koil Dam, India | Masonry dam | Gammons/NHPC | Supply and Installation |
| Baghlihar Hydroelectric Project, India | Concrete gravity dam & Power house | Jaiprakash | Supply and Installation |
| Bajoli Holi Hydroelectric Project, India | Concrete gravity dam | Gammon/GMR | Supply and Installation |
| Bhilangana Hydroelectric Project, India | Concrete gravity dam | Bhilangana Hydro Power Limited | Supply and Installation |
| Budhil Hydroelectric Project, India | Concrete dam | Lanco Infratech | Supply and Installation |
| Chagallu Barrage Project Stage-II, India | Earth dam & spillways | Navyuga Transtroy JV /AP Irrigation | Supply and Installation |
| Chamera II Hydroelectric Project, India | Concrete gravity dam & penstock | Jaiprakash/NHPC | Supply and Installation |
| | Power station | NHPC | Supply and Installation |
| Chamera III Hydroelectric Project, India | Concrete gravity dam, HRT & power house | HCC/NHPC | Supply and Installation |
| Chutak Hydroelectric Project, India | Barrage, HRT & power house | HCC / NHPC | Supply and Installation |
| Dhauliganga Hydroelectric Project, India | Concrete faced rockfill dam, spillways & power house | KDJV/HCC/NHPC | Supply and Installation |
| | Pressure tunnel | Samsung Korea | Supply and Installation |
| Doyang Hydroelectric Project, India | Earth & rockfill dam | SEW & Gammon/ NEEPCO | Supply and Installation |



| Project | | Contractor/Client | Scope of works |
|--|---|--|----------------------------|
| Gerusoppa Project, India | Dam | KPCL | Supply and Installation |
| Ghatghar Lower and Upper Dam, India | Roller-compacted concrete dam | Patel/TCE/WRD | Supply, Installation & AMC |
| GNSS Pydipalem Project, India | Earth dam | HES Infra/AP Irrigation | Supply and Installation |
| Gollapalli Earth Dam, India | Earth dam | AP irrigation | Supply and Installation |
| Gosi Khurd Irrigation Project, India | Earth dam | HCC/VIDC | Supply and Installation |
| Alaknanda Hydro Power Corpn, India | Power house | GVK | Supply and Installation |
| Jeedipalli Reservoir Project, India | Earth dam | BNR Constructions/ AP Irrigation | Supply and Installation |
| Kalpong project, Andaman | Concrete dam | NHPC | Supply and Installation |
| Kameng Hydroelectric Project Package I,II,III, India | Bichom dam | Patel/NEEPCO | Supply and Installation |
| | Tenga dam | Patel/NEEPCO | Supply and Installation |
| | Kimi power house – slope monitoring | Patel/NEEPCO | Supply and Installation |
| Karbi Langpi Hydroelectric Project, India | Dam | Assam Power Generation Corporation Ltd. | Supply and Installation |
| Khuga Irrigation Dam Project, India | Earth and rockfill dam | Irrigation & Flood Control Department | Supply and Installation |
| Komaram Bheem Project, India | Earth dam & spillways | Navyuga engineering Limited/AP irrigation | Supply and Installation |
| Koyna Dam, India | Concrete spillway strengthening | Dev Giri Engineering/ Soma/ Maharashtra Irrigation | Supply and Installation |
| Koyna Stage IV Hydroelectric Project, India | Head race tunnel | Patel | Supply and Installation |
| Loharinagpala Hydroelectric Power Project, India | Barrage & Desilting Chambers | HCC/NTPC | Supply and Installation. |
| Lower Goi Irrigation Project, India | Earthen dam | AKR Constructions | Supply and Installation |
| Mawphlang Project, Shillong, India | Concrete gravity dam | Patel/Public Health Engineering Department | Supply and Installation |
| Middle Vaitarna Dam, India | Roller compact concrete dam | L&T/Soma/BMC | Supply and Installation |
| Musurumilli Reservoir Project, India | Earth dam & spillway | Srinivasa Civil Works Ltd/AP Irrigation | Supply and Installation |
| Nimoo-Bazgo Hydroelectric Project, India | Concrete gravity dam, HRT & power house | HCC/NHPC | Supply and Installation |



| Project | | Contractor/Client | Scope of works |
|--|---|--|-------------------------------------|
| OWK Resovior, India | Three earth dams | Deepika Constructions/AP Irrigation | Supply and Installation |
| Parbati II Hydroelectric Project, India | Concrete gravity dam, power house, HRT, pressure & surge shafts | Patel Engineering/NHPC | Supply and Installation |
| Pench Diversion Irrigation Project, India | Composite dam (earth dam, concrete dam) | WRD, Chhindwara | Supply and Installation |
| Phata Byug Hydroelectric Project, India | Diversion dam | Lanco Infratech | Supply and Installation |
| Pranahita Chevella Lift Irrigation Scheme, India | Barrage | Mega Engineering/TS irrigation | Supply and Installation |
| | Tunnel | Prathima Infra/ TS irrigation | Supply and Installation |
| Pulichintala Hydroelectric Project, India | Spillway | Aarvee Associates /AP Irrigation | Supply and Installation |
| Purulia Pumped Storage Project, India | Rockfill upper dam | Taisei Corporation, Japan/WAPCOS | Supply and Installation |
| | Rockfill lower dam, power house & penstock | HCC – L&T JV/ Taisei Corp, Japan/ WAPCOS | Supply and Installation |
| Ranganadi Hydroelectric Project, India | Dam | HCC/NEEPCO | Supply and Installation |
| Rammam Hydroelectric Project, Stage-III, Darjeeling, India | Barrage and part of HRT, 3x40 MW, run of the river scheme on the Rammam River | Simplex Infrastructures Limited/NTPC | Supply, Installation and Monitoring |
| Sewa-II Hydroelectric Project, India | Concrete gravity dam, power house, HRT & desilting chambers | Gammons/NHPC | Supply and Installation |
| Sripadasagar Project, India | Earth dam & concrete spillways | ITD Cementation/AP Irrigation | Supply and Installation |
| Sripada Yellampalli Irrigation Project | Dam | TSID/Bippl Sublime | Supply and Installation |
| Srisailam Hydroelectric Project, India | Concrete gravity dam | AP irrigation | Supply and Installation |
| | Power house | AP GENCO | Supply and Installation |
| Thoubal Irrigation Dam Project, India | Earth & rockfill dam | Irrigation & Flood Control Department | Supply and Installation |
| Turial Hydroelectric Project, India | Dam & power house | Patel/ NEEPCO | Supply and Installation |
| Vamsadhara Project Phase-II, India | Earth dam & spillway | Soma-Patel-ASI JV/AP irrigation | Supply and Installation |
| Varahi HEP, India | Penstock | KPCL / Indian Hume Pipes | Supply and Installation |
| Veligonda Reservoir Project, India | Concrete gravity dam | BSCPL-SCL JV/AP irrigation | Supply and Installation |
| Vishnuprayag Hydroelectric Project, India | Barrage & power house | Jaiprakash | Supply and Installation |



| Project | | Contractor/Client | Scope of works |
|--------------------------------|--------------------------------------|---|-------------------------|
| Vishnugad Pipalkoti, India | Dam & underground power house cavern | HCC/SMEC | Supply and Installation |
| Vyasi Hydroelectric Project | Dam | Gammon/UJVNL | Supply and Installation |
| Nira Deoghar dam, Nasik, India | Earth dam | Maharashtra Research Engineering Institute (MERI)/CDO | Supply of Instruments |
| Gadnadi dam | Earth dam | Maharashtra Research Engineering Institute (MERI)/CDO | Supply of Instruments |
| Tarali Dam, India | Concrete gravity dam | Dev Giri Engineering/ MKVDC | Supply of Instruments |

Worldwide

| | | | |
|---|---------------------------------------|--|-------------------------------------|
| Khiss Dam Project, Morocco | Earth dam | Sixense, Morocco | Supply of instruments |
| Hatta Pump Storage Hydro Power Plant Project, UAE | Earth dam | Strabag-Ozkar Joint Venture | Supply, Installation and Monitoring |
| Salma Dam Project, Afghanistan | Earth dam | Angelique International Limited/WAPCOS | Supply, Installation and Monitoring |
| Upper Kotmale Hydropower Project, Sri Lanka | Concrete gravity dam & power house | Maeda Nishimatsu JV, Japan | Supply and Installation |
| Koprubasi Hydroelectric Power Project, Turkey | Clay cored rockfill dam & power house | Yuksel Enerji | Supply of instruments |
| Nam Pha Gnai Hydropower Project, Laos | Dam | Nam Pha Gnai Hydropower Project Co., Ltd | Supply and Installation |
| Shenzhen river project-Stage III, Hong Kong | River regulation project | Though Marketing Associates | Supply of monitoring instruments |
| Livada Dam, Greece | Earth dam | Though Marketing Associates | Supply of monitoring instruments |
| Kastoria Earth Dam, Greece | Earth dam | Though Marketing Associates | Supply of monitoring instruments |
| Lechago (Jiloca river) Dam, Spain | Earth dam | Though Marketing Associates | Supply of monitoring instruments |
| Xacbal Delta Dam, Guatemala, Spain | Concrete gravity dam | Though Marketing Associates | Supply of monitoring instruments |
| Pinalto Dam, Dominican Republic | Earth dam | Though Marketing Associates | Supply of monitoring instruments |
| Gibe III, Ethiopia | Earth dam | Though Marketing Associates | Supply of monitoring instruments |
| San Martin-Contratistas Generales S.A., Peru | Dam | Though Marketing Associates | Supply of monitoring instruments |



| Project | | Contractor/Client | Scope of works |
|--|--|-----------------------------|----------------------------------|
| Ingenieria Y Construcion Cosapi S.A., Peru | Dam | Though Marketing Associates | Supply of monitoring instruments |
| Constructora Queiroz Galvao S.A., Peru | Dam | Though Marketing Associates | Supply of monitoring instruments |
| Geotecnia Peruana S.R.L., Peru | Dam | Though Marketing Associates | Supply of monitoring instruments |
| Consorcio Cosapi-SSK, Peru | Dam | Though Marketing Associates | Supply of monitoring instruments |
| Traverse Olmos Project, Peru | Irrigation project | Though Marketing Associates | Supply of monitoring instruments |
| Cincoop, Belo Horizonte, Brazil | Trial embankment on gold mine tailings | Though Marketing Associates | Supply of monitoring instruments |
| Cat Leo Project, Brazil | Broken canoe dam | Though Marketing Associates | Supply of monitoring instruments |
| Canoa Quebrara Dam, Brazil | Dam | Though Marketing Associates | Supply of monitoring instruments |
| Achiras dam, Argentina | Dam | Though Marketing Associates | Supply of monitoring instruments |



MINE, NUCLEAR POWER PLANT, LNG TANK PROJECTS

| Project | Contractor/Client | Scope of works | |
|---|--|--|---------------------------|
| Southern Peru Copper Corporation, Peru | Mine monitoring | Logos, Peru | Supply of Instrumentation |
| Cia. Minera Antamina S.A., Peru | Mine monitoring | Logos, Peru | Supply of Instrumentation |
| CSN Casa De Pedra Mine, Brazil | Mine monitoring | Terratek, Brazil | Supply of Instrumentation |
| RPM Mine Project, Brazil | Mine monitoring | Terratek, Brazil | Supply of Instrumentation |
| Copper Mine Bor, Serbia | Mine monitoring | Terratek, Brazil | Supply of Instrumentation |
| Sepetiba Harbour Stock Piles, Brazil | Stockpile monitoring | Terratek, Brazil | Supply of Instrumentation |
| Boa Hora Landfill project, Brazil | Landfill monitoring | Terratek, Brazil | Supply of Instrumentation |
| ThyssenKrupp CSA Siderurgica do Atlantico Project, Brazil | Automated monitoring of ore yards and piles (largest automated instrumentation project in Latin America) | Terratek, Brazil | Supply and Installation |
| Nuclear Power Corporation Of India Ltd.(NPCIL), Tarapur, India | Stressing of cable strands in reactor building | L&T, ECC | Supply of Instrumentation |
| Nuclear Power Corporation Of India Ltd.(NPCIL), Kaiga, India | Stressing of cable strands in reactor building | Gammon, Freyssinet | Supply of Instrumentation |
| Kettaneh Construction W.L.L., Qatar | LNG tank settlement monitoring | Ishikawajima-Harima Industries Co. Ltd. (IHI), Japan | Supply and Installation |
| Al-Zour refinery Project NRP/EPC - 0048 - Van Oord, Kuwait | LNG tank settlement monitoring | Kuwait National Petroleum and Refinery | Supply of Instrumentation |
| Garudeshwar Weir Project | Weir project | Coastal Projects Ltd. | Supply of Instrumentation |
| Sea Water Intake Project-3 (SWI-3) in Ruwais, UAE | Vibration monitoring | Abu Dhabi Oil Refining Company (TAKREER) | Vibration monitoring |
| Bogazici University Kilyos Saritepe Campus Wind Turbine Project, Turkey | Wind Energy Project | Geogrup, Turkey | Supply of Instrumentation |



LANDSLIDE, SOIL CONSOLIDATION & GROUND IMPROVEMENT PROJECTS

| Project | | Contractor/Client | Scope of works |
|--|--|-----------------------------------|---|
| Narendra Nagar Project, India | Landslide monitoring | DRDO | Web based online monitoring Supply, Installation and Monitoring |
| Nilgiri Hills Project, India | Pore pressure monitoring in hills | VIT Vellore | Supply, Installation and Monitoring |
| Kandla Port Trust (8 th berth), India | Soil consolidation | Afcons/STUP/KPTL | Supply, Installation and Monitoring |
| Kandla Port Trust (9 th berth), India | Soil consolidation | Shantilal B Patel/KPTL | Supply, Installation and Monitoring |
| DP World - JNPT container Terminal | Soil consolidation | ITD Cementation / DP World | Supply, Installation and Monitoring |
| Juinagar-Uran Rail Project | MTP (Metropolitan Transport) | MTP | Supply & Installation |
| Vishakhapatnam sea port project, India | Ground improvement | Skanska | Supply and Installation |
| Runway Ground Improvement, Vizag Airport, India | Ground improvement | Sohams/Airport Authority of India | Supply and Installation |
| Vallarpadam Port, India | Ground improvement | Soma/NHAI | Supply and Installation |
| Gujarat Adani Port, Mundra, India | Tie rod monitoring (Bulk Terminal) | L&T-ECC/Adani group | Supply and Installation |
| Dry dock GRSE, Kolkata, India | Ground improvement | ITD | Supply, Installation and Monitoring |
| Borusan Gemlik Port Soil Improvement Project, Turkey | Ground improvement | Borusan Logistic | Supply of Instrumentation |
| Sea Port, UAE | Container terminal; soil improvement, track settlement monitoring | Dutco Balfour Beatty | Supply, Installation and Monitoring |
| Dubai Airport, UAE | Ground improvement | Al Bayan | Supply of Instrumentation |
| Container Terminal 4 (CT-04), Jebel Ali, UAE | 400 m bridge, reclaimed 2.2 km quay wall with an alongside depth of 18 m | DP World/Dutco Balfour Beatty LLC | Supply, installation, monitoring + geodetic survey |
| Al Raha Beach Development, UAE | Ground improvement | Zetas Zemin Teknolojisi A.S. | Supply of Instrumentation |
| Khalifa Port and Industrial Zone Project, UAE | Ground improvement | Gulf Laboratories | Supply of Instrumentation |



| Project | | Contractor/Client | Scope of works |
|---|--------------------------------------|--|--|
| Al Suwwah Island Development Work, UAE | Ground improvement | Terrasearch Gulf | Supply and Installation |
| Arabian Canal Project, UAE | Ground improvement | Arab Centre for Engineering Studies (ACES) | Supply of Instrumentation |
| Sub base Tambaram-Somangalam Road Km 2/4-2/8 & 4/8-5/8, India | Bituminon pavement monitoring | Highway Research Department. | Web based online monitoring Supply, Installation |
| IOC, Cochin | JPG Terminal, Indian Oil Corporation | Keller India | Supply & Installation |



AUTOMATIC WATER LEVEL/GROUNDWATER MONITORING

| Client | Scope of works |
|--|---|
| Ground Water Department (GWD), Lucknow, UP | Online monitoring through cloud based web server (2116 systems) |
| State Water Investigation Directorate (SWID), Kolkata, WB | Online monitoring through cloud based web server (1200 systems) |
| Water Resource Investigation Division, Punjab | Online monitoring through cloud based web server (721 systems) |
| Directorate of Ground Water Development, Odisha | Online monitoring through cloud based web server (536 systems) |
| Central Ground Water Board (CGWB), Faridabad | Online monitoring through cloud based web server (529 systems) |
| Ground Water Directorate, Bangalore (Karnataka) | Online monitoring through cloud based web server (445 systems) |
| Ground Water Directorate, Madhya Pradesh | Online monitoring through cloud based web server (410 systems) |
| PWD Government of Tamil Nadu, Tamil Nadu | Online monitoring through cloud based web server (386 systems) |
| Ground Water Directorate, Andhra Pradesh | Online monitoring through cloud based web server (350 systems) |
| Telangana State Ground Water Department, Telangana | Online monitoring through cloud based web server (240 systems) |
| Chennai Metropolitan Water Supply and Sewerage Board, Tamil Nadu | Online monitoring through cloud based web server (225 systems) |
| Directorate of Agriculture, Government of Assam | Online monitoring through cloud based web server (193 systems) |
| Ground Water Directorate, Kerala | Online monitoring through cloud based web server (150 systems) |
| Water Resources Department, Raipur | Online monitoring through cloud based web server (137 systems) |
| Department of Water Resources, Jharkhand | Online monitoring through cloud based web server (117 systems) |
| Rajasthan Agricultural Competitiveness Project (RACP), Jaipur | Online monitoring through cloud based web server (100 systems) |
| Ground Water Department, Jodhpur | Online monitoring through cloud based web server (77 systems) |
| Irrigation Research Institute, Roorkee | Online monitoring through cloud based web server (66 systems) |
| Water Resources Department, Goa | Online monitoring through cloud based web server (60 systems) |
| Water Resources Department, Chhatisgarh | Online monitoring through cloud based web server (53 systems) |
| Irrigation & Flood Control Department, Delhi | Online monitoring through cloud based web server (20 systems) |
| Doha Metro Gold Line Project - ALYSJ JV, Qatar | Online monitoring through cloud based web server (60 systems) |
| State Hydrology Organization, Puducherry | Online monitoring through cloud based web server (33 systems) |
| Andhra Pradesh Water Sector Improvement Project, AP & Telangana | Online monitoring through cloud based web server (25 systems) |
| Varun Beverages Group (different locations in UP) | Online monitoring through cloud based web server (9 systems) |
| Brindavan Group (different locations in UP) | Online monitoring through cloud based web server (7 systems) |



| Client | Scope of works |
|--|--|
| South Eastern Coald Fields Ltd., Korba (C.G.) | Online monitoring through cloud based web server (7 systems) |
| Naini Papers Limited, Kashipur (U.K.) | Supply and Installation (62 systems) |
| Kandhari Beverages Pvt Ltd. | Supply and Installation (62 systems) |
| TWAD Board, Chennai, TN | Supply and Installation (66 systems) |
| Aditya Birla Chemicals (India) Limited, Chemical Division, Sonbhadra, UP | Online monitoring through cloud based web server |
| Amrit Bottlers Pvt. Ltd, Faizabad, UP | Online monitoring through cloud based web server |
| AOV Exports Pvt. Ltd, Unnao, UP | Online monitoring through cloud based web server |
| Central Ground Water Board, Lucknow, UP | Online monitoring through cloud based web server |
| Diamond Beverages (P) Ltd., Kolkata, WB | Online monitoring through cloud based web server |
| Gallant Ispat Limited, Gorakhpur, UP | Online monitoring through cloud based web server |
| IIT Chennai, TN | Online monitoring through cloud based web server |
| Indagro Foods, Unnao, UP | Online monitoring through cloud based web server |
| Lanco Anpara Power Ltd, Anpara Sonbhadra, UP | Online monitoring through cloud based web server |
| Pachaimuthu & Company, Parambikulam Dam, TN | Online monitoring through cloud based web server |
| Subros Limited, Noida, UP | Online monitoring through cloud based web server |
| Trichy Corporation, TN | Online monitoring through cloud based web server |
| Uttar Pradesh Water Restructuring Project , Lucknow, UP | Online monitoring through cloud based web server |
| WAPCOS Limited, New Delhi | Supply and Installation (42 systems) |
| NEER, Ghaziabad | Supply and Installation (23 systems) |
| Advance Construction Technology Limited (ACTS), Doha, Qatar | Supply and Installation (16 systems) |
| Shiv Drillers, Kolkata, WB | Supply and Installation (15 systems) |
| Chetnad Cement, Chennai, TN | Supply and Installation (14 systems) |
| Balrampur Chini Mills Group (different locations in UP) | Supply and Installation (27 systems) |
| Gouthami Mines And Minerals, Madinaguda, Hyderabad | Supply and Installation (21 systems) |
| TDI INFRACORP (INDIA) LTD., Haryana | Supply and Installation (13 systems) |
| Ultratech Cement Limited | Supply and Installation (12 systems) |
| YKK India Pvt Ltd, Rewari | Supply and Installation (11 systems) |
| Shriram Pistons & Rings Limited, Ghaziabad, UP | Supply and Installation (10 systems) |
| DABS Automation, Delhi | Supply and Installation (10 systems) |



| Client | Scope of works |
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| Mars Turbo India Pvt. Ltd., Sangareddy | Supply and Installation (10 systems) |
| Madhepura Electric Locomotive Pvt Ltd | Supply and Installation (10 systems) |
| Tata Steel Limited | Supply and Installation (10 systems) |
| The Odisha Mining Corporation Limited | Supply and Installation (10 systems) |
| National Center for Earth Science Studies, Kerala | Supply and Installation (10 systems) |
| Nuvoco Vistas, Aresmeta Plant | Supply and Installation (10 systems) |
| N. T. Bloomfield Enterprises, New Delhi | Supply and Installation (9 systems) |
| Eastern Automation System, Cuttuck | Supply and Installation (9 systems) |
| Indian Metals & Ferro Alloys Ltd., Odisha | Supply and Installation (9 systems) |
| Lafarge India Pvt. Ltd.- Arasmeta Cement Plant, Champa, CG | Supply and Installation (8 systems) |
| Mogli Labs (India) Pvt Ltd | Supply and Installation (8 systems) |
| Rotex Controls, Lucknow | Supply and Installation (8 systems) |
| Bangalore International Airport Limited, Bangalore | Supply and Installation (7 systems) |
| National Enviro Engineering, New Delhi (Lalitpur Power Generation company Ltd.) | Supply and Installation (7 systems) |
| Radico Khaitan Limited, Rampur, UP | Supply and Installation (7 systems) |
| India Glycols Limited, Gorakhpur, UP, selaqui, Dehradun, Kashipur Chemical Plant | Supply and Installation (7 systems) |
| Rajapalayam Mills Ltd., Fabrics Division, Virudhunagar Dt. | Supply and Installation (7 systems) |
| L&T Mumbai Coastal Road - Package-IV | Supply and Installation (7 systems) |
| Madras Cement Group, Chennai, TN | Supply and Installation (6 systems) |
| Shree Cement Ltd., Sriganganagar, Rajasthan | Supply and Installation (6 systems) |
| Shree Raipur Cements Ltd, Baloda Bazar, Chattisgarh | Supply and Installation (6 systems) |
| Hindustan Coca-Cola, Chennai | Supply and Installation (6 systems) |
| Essel Mining & Industries Ltd | Supply and Installation (6 systems) |
| Sona Sati Organics Pvt Ltd. | Supply and Installation (5 systems) |
| CGWB | Supply and Installation (5 systems) |
| Empire Tubewell, New Delhi | Supply and Installation (5 systems) |
| Aryan Mining and trading corporation pvt ltd | Supply and Installation (4 systems) |
| Avadh Sugar & Energy Ltd., Sitapur, UP | Supply and Installation (4 systems) |



| Client | Scope of works |
|--|-------------------------------------|
| Emami Cement, Baloda Bazar, CG | Supply and Installation (4 systems) |
| Hindalco Industries Chatisgarh | Supply and Installation (4 systems) |
| Shiv Shakti Traders, Korba, CG (Ambuja Cement) | Supply and Installation (4 systems) |
| Shivam Solution, Nagpur | Supply and Installation (4 systems) |
| Tiruchirappalli City Corporation, TN | Supply and Installation (4 systems) |
| Vishnu Sugar Mills Limited, Gopalganj Bihar | Supply and Installation (4 systems) |
| Annamalai University, Department of Earth Science, Chidambaram, TN | Supply and Installation (3 systems) |
| FourITS Pvt. Ltd., New Delhi | Supply and Installation (3 systems) |
| Hindustan Copper Limited, Ghatsila, Singhbhum | Supply and Installation (3 systems) |
| HPCL Biofuels Limited, Patna | Supply and Installation (3 systems) |
| Kanpur Edibles Pvt. Ltd., Kanpur | Supply and Installation (3 systems) |
| Khatema Fibers Limited, Udham Singh Nagar, UK | Supply and Installation (3 systems) |
| Mother Dairy Fruit & Vegetable Pvt. Ltd., N. Delhi | Supply and Installation (3 systems) |
| Ramco Cement Group, Chennai, TN | Supply and Installation (3 systems) |
| The India Cements Limited, Ariyalur Distt, TN | Supply and Installation (3 systems) |
| Triveni Earthmovers Private Limited | Supply and Installation (3 systems) |
| Perfect Sales and service, Hajipur vaishali | Supply and Installation (3 systems) |
| Triveni Engineering & Industries Limited, Muzaffarnagar, Bulandshehr | Supply and Installation (3 systems) |
| Infrastructure & Freight Terminal Rajasthan | Supply and Installation (2 systems) |
| International Tractors Limited, Hoshiyarpur, Punjab | Supply and Installation (2 systems) |
| Jindal Pipes Limited, Gurgaon | Supply and Installation (2 systems) |
| Majhulia Sugar Industries Pvt.Ltd., Dist-West Champaran (Bihar) | Supply and Installation (2 systems) |
| Paradeep Phospates Limited, Orissa | Supply and Installation (2 systems) |
| Radisson Blu Agra Taj East Gate | Supply and Installation (2 systems) |
| Sravanthi Energy Pvt. Ltd., Gurgaon | Supply and Installation (2 systems) |
| The Ramco Cements Limited. | Supply and Installation (2 systems) |
| United Spirits, Shahjahanpur, UP | Supply and Installation (2 systems) |