| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|--------------|--|--|---|---|
| | | 1959 | | |
| 1 | MANGLA DAM. Multipurpose dam on river Jhelum. 380 feet high, 11,000 ft long embankment. Gross storage 5.3 million acre ft.1400MW hydropower. Work in association with Geostrazivanja (Yugoslavia). | Diamond core drilling. Water loss tests and stage grouting. 470 ft. of core-drilling and associated tests. | WAPDA Lahore. | Binnie and Partners (U.K.) & Harza Engineering Int. (U.S.A.) |
| | | 1960 | | |
| 2 | TARBELA DAM. Multipurpose dam on the Indus River. 9,000 ft. long 480 ft. high embankment. 2100MW hydropower. | Percussion drilling & soil sampling with large dia (20 -12 in) casing, through heterogeneous alluvial overburden & boulders. 800 ft. of drilling and associated tests. | WAPDA Lahore. | Harza Engineering Int. (USA.) and TAMS (U.S.A.) |
| 3 | TARBELA DAM. Multipurpose earth and rock fill dam on the Indus River. 9,000 ft long 480 ft. high embankment. 2100 MW hydropower. | Diamond core-drilling. Many horizontal and angle holes to 700 ft. depth through heavy overburden and hard rocks. Elaborate water pressure and water absorption tests. 16,490 ft. of core drilling and 657 tests. | WAPDA Lahore. | Harza Engineering Int. (USA.) and TAMS (U.S.A.) |
| 4 to 6 | KUNHAR VALLEY. 3 potential dam sites on River Kunhar. Sites in steep narrow gorges, in rugged terrain, with difficult access. Part of work during heavy snow cover. | Diamond core-drilling in different metamorphic rocks and heavy over- burden.Water pressure tets. 3,000 ft. of core-drilling 371 water pressure tests. | WAPDA Lahore. | Chas.T. Main Inc., (U.S.A.) |
| 7 | THATTA-SAJAWAL BRIDGE. A major bridge across the Indus River near the historical town of Thatta. | Shell and auger borings, soils sampling and standard penetration tests. 1156 ft. of borings, 108 tests. | Public Works Department (PWD) Govt. of Pakistan. | T.O.Lazarides & J.D. Harris. |
| | | 1961 | | |
| 8 | MIAN NOOR. Part of Gomal Zam Project, for irrigation and protection against flash floods. | Rotary and percussive drilling in difficult limestone formations. Permeability and water pressure tests. 511 ft of drilling, 235 tests. | Director General P&I WAPDA Lahore. | Energoprojekt (Yugoslavia). |
| 9 | TARBELA DAM. Multipurpose earth and rock fill dam on the River Indus. 9000 ft. long 480 ft. high embankment. 2100 MW hydropower. | Diamond core-drilling. Many horizontal and angle holes. Elaborate water pressure and water absorption tests. 6000 ft. of core drilling and associated tests. | WAPDA Lahore. | Harza Engineering Int. (USA.) and TAMS (U.S.A.) |
| 10 | MAILSI SYPHON. To deliver water of the Ravi River across the Sutlej River through Mailsi-Bahawal Canal for irrigation use in Bahawalpur. | Site investigations for Syphon foundations with shell and auger, including sampling, SPTs and other tests. 300 ft. of borings and tests. | Chief Engineer, Indus Basin Projects, WAPDA. | Coode and Partners (U.K.) |
| | | 1962 | | |
| 11 | JHELUM BRIDGE. New road bridge for National Highway over Jhelum River. | Site investigations for bridge foundations, including sampling SPTs and other tests. 300 ft. of borings with associated tests. | Public Works Department (PWD) Govt. of West Pakistan. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|----------------|--|--|---|--|
| 12 | KHAJURI KATCH. Potential dam site on the River Gomal. | Diamond core-drilling and water pressure tests involving manhandling and winching of rigs hundreds of feet up the banks of a narrow gorge. 2164 ft. of core-drilling 151 tests. | Director General P & I, WAPDA Lahore. | Energoprojekt (Yugoslavia). |
| 13 | RASUL BARRAGE. A major Indus Basin Project, on the Jhelum River to divert 10,000 cusecs to the Rasul- Qadirabad Link Canal, and 6000 cusecs to the Lower Jhelum Irrigation Canal. | Comprehensive Geotechnical investigations for Barrage foundations and canal "Head Regulators" including complete soil mechanics laboratory test and appraisal report comprising data, conclusions & recommendations. | Chief Engineer,Indus Basin Projects, WAPDA. | Coode & Partners (U.K.) |
| 14 | WAPDA HOUSE. Prestigeous Multi- storey, luxury office-cum-shopping building in Lahore designed by Edward D. Stone. Work in association with the Cementation Co.Ltd. (U.K.) | Complete Site Investigations for building foundations, including the the full range of field and soil tests. | WAPDA Lahore. | Harza Engineering Int. (U.S.A.) |
| | | 1963 | | |
| 15 to 20 | SIBI-JHATPAT PROJECT. Feasibility studies at six Dam sites in Sibi-Jhatpat area, for flood control, irrigation and power in the province of Baluchistan. | Percussion and diamond core-drilling in conglomerates, alluvium and many different rock formations. Water pressure tests, permeability tests etc. 3509 ft. of drilling 289 tests. | Director General, P & I, WAPDA. Lahore. | Sir M. MacDonald and Partners (U.K.) |
| 21 | TARBELA DAM. Multipurpose dam on the Indus River. 9000 ft. long 480 ft. high embankment. 2100 MW hydropower. Work in association with Swissboring Overseas Corporation Ltd. (Switzerland). | Diamond Core-drilling. Many horizontal & angle holes. Elaborate water pressure and water absorption tests. 10,000 ft. core-drilling 556 tests. | Project Director & Chief Engineer Tarbela Dam WAPDA. | TAMS (U.S.A.) |
| 22 | SWAT RIVER. Feasibility studies for potential dam site at Kalam on River Swat in the North West Frontier Province. | Percussion and core-drilling in over- burden and massive Diorite rocks. Permeability and pressure tests. 2503 ft. of drilling with usual tests. | Director General, P & I WAPDA. Lahore. | |
| 23 | MARALA BARRAGE. Remodelling studies at an earlier Barrage on the River Chenab. Work in association with Swissboring Overseas Corporation Ltd. (Switzerland). | Foundation Investigations with sampling and usual tests. 1370 ft. of borings, 199 tests. | Remodelling Organization WAPDA. | |
| 24 | SANJWAL. Feasibility for potential Dam storage sites near town of Campbellpur, as possible off- channel storage below Tarbela. | Percussion and diamond core-drilling in alluvium and rock, mostly limestone and sand-stone shale. 829 ft. of drilling 76 tests. | Director General, P & I WAPDA. Lahore. | Associated Consulting Engineers Ltd., (Pakistan). |
| 25 | CHICHAWATNI BRIDGE. A major road bridge on the River Ravi. | Site Investigations for Bridge Foundation, with usual tests. 208 ft. boring and associated tests. | Public Works Department (B&R) Govt. of Pakistan. | |
| 26 | KHANPUR DAM. 164 ft. high dam 1580 ft. long; 106,000 acre ft. storage, on River Haro in the North-West Frontier Province. | Dam Site Investigations involving drilling in river alluvium and bed rock. Permeability and water absorption tests. 7,238 ft. of drilling with associated tests. | Chief Engineer Development & Coordination WAPDA. | Associated Consulting Engineers Ltd., (Pakistan). |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|---|--|--|
| 27 | TERI-TOI BRIDGE. Bridge on National Highway. | Foundation Investigations for Highway bridge 200 ft. of boring and usual tests. | Public Works Department (PWD) Govt. of West Pakistan. | |
| | | 1964 | | |
| 28 | KARACHI SHIPYARD. Feasibility and design studies for construction of an additional ship berth and dry dock. | On and off-shore rotary and percussion drilling. Special sampling. 'Dutch Cone' Penetrometer tests. Heavy pump out tests. Full range of field and laboratory tests. 5855 ft. of borings. | Karachi Shipyard and Engineering Works Ltd. | Prof. Dr. Ing. Erich Lackner.(Germany) Zafar & Associates (Pakistan). |
| 29 | DARGAI POWER HOUSE. Repair to deteriorated and spalled concrete lining of long water conduits/ channels, and spillway surfaces of the Dargai hydroelectric power house. | Removal & cleaning by air chipping and sand blasting of all defective concrete, fixing dowels & reinforcement mesh, application of pneumatic concrete i.e. Guniting to give a new hard-wearing surface.123,248 sqft. of guniting. | Operational Manager Electricity WAPDA. | Harza Engineering Intl. (U.S.A.) |
| 30 | HATTAR CEMENT WORKS. Provision of water supply to cement works. | Installation of 3 tubewells and pumping tests. 1526 ft. of tubewell borings. | The Pak Cement Industries Ltd. | |
| 31 | CHINA CREEK, KARACHI. Highway Bridge in Karachi City. | Foundation Investigations for road bridge. Borings, sampling, field and laboratory tests. 436 ft. of borings, 94 tests. | Republic Engg. Corporation (Pakistan). | Republic Engg. Corporation (Pakistan). |
| 32 | MARALA BARRAGE. Investigations for design of dewatering programme during Barrage construction. | Constructing temporary tubewells and piezometers, pumping tests with measurements of drawdowns and of the cone of depression. 174 ft. of borings with piezometers and pumping tests. | E.D. Zublin AG (West Germany). | |
| 33 | SIDHNAI. Pakistan Western Railway Bridge at Sidhnai. | Plugging of railway bridge deep piers at Sidhnai by concrete method. 2 piers and 2 abutments. | WAPDA & Societa Domez.(Italy) | Coode and Partners (U.K.) |
| 34 | KARACHI ELECTRICITY SUPPLY CO. Design studies for foundation of Transmission line towers. | Foundation investigations along the tranmission line, borings and usual field and laboratory tests. | Karachi Electric Supply Corporation Limited. | |
| | | 1965 | | |
| 35 | HYDERABAD-KASHMORE HIGHWAY. Feasibility studies of a highway project. | California Bearing Ratio (CBRs) and comprehensive borings & laboratory tests for the proposed highway. | Noon Qayum & Co. (Pakistan) | Noon Qayum & Co. (Pakistan) |
| 36 | MARALA BARRAGE. 4472 ft. long barrage on River Chenab with 1,100,000 cusecs designed discharge. | Detailed Site Investigations of barrage foundations. Full range of field tests, complete soil-mechanics laboratory tests and comprehensive appraisal report.14221 ft.of borings. 495 tests. | Ed. Zublin AG & WAPDA. | Coode and Partners (U.K.) |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|----------------|--|--|---|---|
| 37 | HARIPUR. Feasibility studies for construction of weir in a river bed. | Exploratory site investigations in boulders, gravels in river bed with usual field and laboratory tests. 464 ft. of borings, 168 tests. | Public Works Department (PWD) Govt. of Pakistan. | |
| 38 | SIMLY DAM. Feasibility and design studies for a Dam on Simly River near Islamabad to provide water supply to the capital city of Pakistan. | Dam site investigations. Diamond core and percussion drilling with water pressure tests, sampling etc., alongwith accurate determination of borehole inclinations. Many angleholes. 1770 ft. of drilling. 67 tests. | Capital Development Authority, Islamabad. | Techsult, International Ltd., (Canada.) |
| 39 | RASUL BARRAGE. A component of the Indus Basin Projects, to divert 10,000 cusecs to the Rasul Qadirabad Link Canal, and 6,000 cusecs to the Lower Jhelum Irrigation Canal. | Comprehensive Site Investigations for Barrage foundations and canal "Head Regulators". Including complete soil mechanics laboratory tests. and appraisal report including data, conclusions and recommendations. 16,349 ft. of borings and associated tests. | WAPDA & Cogefar Astaldi (Italy). | Coode and Partners (U.K.) |
| 40 | BURJ ZAM, DAMANDA, WUCHA | Exploratory diamond core-drilling | Director General | |
| to | SISTA RIVER MOUTH. Feasibility | with usual water pressure and other | P & I, WAPDA. | |
| 43 | studies of potential dam sites in North West Frontier Province. | tests. 2,200 ft. of drilling.205 tests. | Lahore. | |
| 44 | HUB DAM & KHANPUR DAM. Dams near Karachi and Haripur respectively. | Special check tests of soil samples in our Pakistan laboratory and the laboratories of Cementation of U.K. (17 Nos. laboratory tests). | WAPDA Lahore. | Associated Consulting Engineering Ltd., (Pakistan) |
| 45 | MARGALLA. Feasibility studies for location of a cement factory and availability of groundwater. | Complete Site and foundation investigations with usual field and laboratory tests. Temporary tubewells, and pumping tests. 1668 ft. of borings. 20 tests. | Gandhara Industries Ltd. | |
| | | 1966 | | |
| 46 | CHASHMA BARRAGE. A major unit of the Indus Basin Projects, to divert water of the Indus to the Jhelum River and onwards into the Trimu-Sidhnai-Mailsi- Bahawal Link Canals System. | Site investigations for foundations. Extensive deep sounding with Dutch Cone Penetrometer. Full range of field, and soil mechanics laboratory tests. 9516 ft. of borings, and associated tests. | Chief Engineer, Indus Basin Projects, WAPDA. | Harza Engineering Int. Co. (USA) |
| 47 | HYDERABAD KOTRI. Tower crossing for transmission line over the Indus River. | Straight and raked bored-in-situ piles and beams to provide foundations for transmission line towers for river crossing. (5901 ft. of piling). | WAPDA & British Insulated Callendars Cables Ltd., (B.I.C.C.) | Sandwell & Co. (Canada). |
| 48 | KHANPUR DAM. 164 feet high 1580 feet long 1,06,000 acre ft. storage earth dam, on the river Haro in the North-West Frontier Province and Punjab. | Dam Site investigations with percussion and diamond core drilling in river alluvium and bed rock. 3000 ft. of drilling and associated tests. | Director General P & I, WAPDA. Lahore. | |
| 49 to 50 | CHINIOT AND MALAKWAL. River crossing of Sui Northern Gas Pipelines. | Bored-in-situ piles and connected superstructure to support gas pipeline across river. 2008 ft. bored piles and associated superstructures. | Motherwell Bridge Contracting Co.Ltd. | Freeman Fox & Partners (U.K.) |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|---|---|--|
| 51 | CHASHMA BARRAGE. A major unit of the Indus Basin Projects, to direct water of the Indus to the Jhelum River and onwards into the Trimu-Sidhnai-Mailsi-Bahawal Link Canal System. | Additional investigations for foundations. Deep sounding with Dutch Cone Penetrometer. Full range of field and soil mechanics laboratory tests. 9500 ft. of boring and associated tests. | Chief Engineer, Indus Basin Projects, WAPDA. | Harza Engineering Int. (U.S.A.) |
| 52 | KARACHI SHIPYARD. Pre-Construction investigations for second phase of berth and Dry Dock No.2. Work in association with Swissboring Overseas Corporation Limited, (Switzerland). | Site investigations. On shore and off-shore percussion and rotary drilling. 'Dutch Cone' Penetrometer tests. Large scale pump out tests to assess dewatering requirements. Full range of field & soil mechanics laboratory tests. 2882 ft of borings. | Karachi Shipyard & Engineering Works Limited, Karachi. | Prof. Dr. Ing Erich Lackner, Consulting Engineers, (Germany) Zafar&Associates, (Pakistan). |
| 53 | HARIPUR. Water supply for factory of Telephone Industries of Pakistan Ltd. | Turnkey installation of tubewell. Hard boulders and rocky formations. 450 feet deep tubewell. | Telephone Industries of Pakistan. | (z uklotul). |
| 54 | MIRPUR(AZAD KASHMIR). Drinking water supply for Mirpur Town suburbs. | Turnkey installation of 6 tubewells in hard boulders and clay formations. 2818 ft. of tubewell work. | S.E. Reservoir Circle WAPDA & PWD, Mirpur (AK). | |
| 55 | FAISALABAD. 160 MW Thermal Power Station at Faisalabad, Punjab Province. | Fireproof gunite lining to 140 feet high Power House Chimney. 6044 sq ft of guniting. | WAPDA & Volkervam (Pakistan) Ltd. | |
| | | 1967 | | |
| 56 | SHEIKHUPURA, SARGODHA, KHUSHAB HIGHWAY. Feasibility and Design studies of a modern Super Highway under the aegis of the World Bank. | Complete Soil Investigations and laboratory tests for design of highway & foundations of cross drainage and associated structures along 100 miles of highway. 1604 feet of borings and associated work. | Govt of West Pakistan (PWD) Highway Deptt. | Pacific Consultants, K.K. (Japan) & Zafar&Associates, (Pakistan) |
| 57 | MANGLA-LAHORE TRANSMISSION LINE 220 KV. Site Investigations for transmission line between Mangla Dam and Lahore. | Soil Investigations, with shell & auger equipment & usual field tests. Full range of laboratory tests with appraisal report.1024 ft borings and associated tests. | WAPDA. | Commonwealth Associates & Harza Engineering Co. Int. (U.S.A.) |
| 58 | BULAND HILL. Mechanised stone and aggregate quarry, near Sargodha town in Punjab. | Diamond core-drilling to investigate geological and engineering properties in quarry area 1141 ft of core drilling. | The Chief Engineer I.B.P. WAPDA & Impergilo (Italy) | Harza Engineering Co. Int. (U.S.A.) |
| 59 | RAJOYA. Feasibility of a small scale irrigation scheme. | Survey, soil investigations sampling and usual tests. 411 ft. of boring and sampling. | Irrigation Department Abbottabad. | |
| 60 | PESHAWAR. Old brickworks water aquaduct under historic Peshawar City. | Removal of defective parts, repair re-lining with rein-forcement mesh, and covering the entire tunnel with Gunite 38,561 sqft. of Guniting. | The Executive Engineer, Canal Division Peshawar. | |
| 61 | GUDDU. Proposed modern gas turbine Thermal Power Station of 600 MW | Site investigations and tests, including micro-geological, for design of | The Chief Engg. (C) WAPDA. | ELC Electro- consult (Italy). |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|----------------|--|---|--|--|
| | | | | |
| | | 1968 | | |
| 62 | KASHMORE - D.G.KHAN. Bridges on new Railway Link. | Soil investigation for Desert Canal and Shori Nullah Railway Bridges. 420 ft. of boring. | The Chief Engineer (Const) PWR,Lahore. | |
| 63 | RASUL BARRAGE. A major component of the Indus Basin Project on the Jhelum River to divert 10,000 cusecs to the Rasul-Qadirabad Link Canal. | Additional site investigations as at serial 13 with pump out tests for permeability determination. 6336 ft. borings and associated tests. | WAPDA & Cogefar Astaldi (Italy). | Harza Engineering Co. Int. (U.S.A.) |
| 64 | GUDDU. Thermal Power Station with 600 MW installed capacity at Guddu. | Extensive Geohydrological Investigations & aquifer tests. Two volume appraisal report. 4,764 ft.of borings and associated works. | The Chief Engineer (Contract) WAPDA. | ELC-Electroconsult (Italy). |
| 65 | CHICHOKI-MALLIAN FERTILIZER FACTORY. Construction of Dawood Hercules Fertilizer Factory on Lahore- Sheikhupura Road. | In field testing of soil moisture density etc., samples, compaction control of the earth fill. 36 borrow area samples and approx. 2000 of insitu density samples. | Dawood Hercules Chemicals Ltd. | Trans Pakistan Engineering Limited. |
| | | 1969 | | |
| 66 | GUDDU. Thermal Power Station with 600 MW installed capacity at Guddu. | Constructing bored-in situ test piles and carrying out pile loading tests to 120 tons both in compression and in tension. 12 test piles. | The Chief Engineer (Contract) WAPDA. | ELC-Electroconsult (Italy). |
| 67 | MANGLA DAM. Multipurpose earth Dam, on River Jhelum. | Pressure grouting and encasement of sealing ring in 30 feet dia. tunnel No. 1. | Mangla Dam Contractors Consortium. | Binnie & Partners (U.K.). |
| 68 | MANGLA-LAHORE TRANSMISSION LINE 220 KV. Double Circuit trans- mission line between Mangla Dam and Lahore. | Soil Investigations, with shell and auger equipment, usual field and laboratory test with appraisal report. 870 ft. of borings and associated | WAPDA. | Commonwealth Associates Inc. (Canada). |
| 69 | TARBELA DAM. Multipurpose earth and rock fill Dam on the Indus River. 9,000 ft. long 480 ft. high embankment. 2100 KW of hydropower. | Construction of 19 in. dia relief wells through heavy boulders to 250 ft. depth, using telescoping easings from 36 in. downwards. 2,900 ft. of deilling for Polici wells. | WAPDA and Cementation Intrafor Ltd. | T A M S. (U.S.A.) |
| 70 | SIMLY DAM. Feasibility and design studies for a dam on Simly River near Islamabad, to provide water supply to capital city of Pakistan. | Additional Damsite investigations and grouting tests. 3969 ft. of core drilling & associated tests including stage grouting. | Capital Development Authority, Islamabad. | |
| 71 to 73 | WAH, CAMPBELLPUR AND HAVELLIAN. Extension of Pakistan Ordnance Factories. | Exploratory borings, and site investigations for factories. 720 ft. of drilling and associated tests. | The Superintending Engineer, P.O.F. Wah Cantt. | |
| | | | | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|---|--|----------------------------|
| | | 1970 | | |
| 74 | MARALA BARRAGE. Remodelling studies at an earlier Barrage on the River Chenab, to investigate uplift pressures on downstream of the barrage. | Subsurface investigations through floor of the barrage, due to unexpectedly high hydrostatic pressure in some of the check piezometers. Puncturing and drilling through the concrete floor slab whilst maintaining hydrostatic pressure to counter the uplift pressure of the upstream pond. Special caissons, pontoons, expanding seals and safety devices were designed by IVCC and pretested before start of work. Extensive piezometeric and permeability tests, followed by installation of relief wells. 7939 ft. borings, 106 piezo tests. | WAPDA & The World Bank. | Coode & Partners (UK) |
| 75 | WAH CANTONMENT. Provision of additional drinking water for extension of Pakistan Ordnance Factories. | Installation of 4 Tubewells for water supply.1,293 ft. of tubewell borings. | The Superintendent Engineer, P.O.F. Wah Cantt. | |
| 76 | HAVELLIAN. Provision of drinking water for extension of Ordnance Factories. | Installation of 6 tubewells in difficult heavy boulders, developing, and test pumping. 1387 ft. of boring. | The Superintendent Engineer, P.O.F. Wah Cantt. | |
| 77 | MIRPUR (AZAD KASHMIR). Construction of Ropeway of a Logging and Saw Mill Complex, near the River Jhelum. | Pile foundations of Ropeway towers and erection of tower steel work. 911 ft. of 19in. dia. bored-in-situ piling. | Resident Engineer A.K. Logging & Saw Mills Ltd., Mirpur (AK). | Carrier Associates Ltd. |
| 78 | KABUL RIVER. River crossing of gas transmission pipeline for Sui Northern. | Site Investigations for feasibility for pipeline foundations. 374 feet of drilling and associated work. | Sui Northern Gas Pipelines Ltd. | |
| 79 | FAROOQIA. Additional Water Supply for existing cement factory. | Turnkey installation of tubewell. 300 ft. tubewell borings. | The Pakistan Cement Industries Limited. | |
| 80 | RIVER RAVI LAHORE. River Crossing of 220 K.V. Transmission Line. | 48 in. dia bored, cast-in-situ heavily reinforced piles within purpose-fabricated steel lining, in clay, and running sand formations. 1344 ft. of piles. | WAPDA & Imperial Electric Co. Ltd. | |
| 81 | ATTOCK- RIVER INDUS. Crossing of natural gas pipeline at a historic fort site. | Core drilling and site investigation for feasibility and design of pipeline foundation. 209 ft. of drilling and tests. | Sui Northern Gas Pipelines Ltd., Lahore. | |
| | | 1971 | | |
| 82 | KABUL RIVER. Feasibility and design studies for a high level river bridge. | Soil investigations and usual field and laboratory tests. 1,100 feet of borings and tests including 500 ft. of boring on water. | The Executive Engineer, Highway Division, Mardan. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|---|--|--------------------------------------|
| 83 | KARACHI. Feasibility studies for expansion of Karachi Harbour. Work in association with Foundation Engineering Ltd. | Site investigations with percussion and Rotary drilling on land and in 30-40 feet of sea depth. Usual field and laboratory tests. Dutch Cone Soundings. 4112 feet of boring on sea plus 2,777 ft. on land with tests. | Karachi Port Trust, Karachi. | Van Houten Associates Karachi. |
| 84 | RASUL BARRAGE. Remodelling studies at an earlier Barrage on the River Jhelum, to investigate uplift pressures on downstream of the barrage. | Additional investigations and installation of relief wells at site under similar conditions as at ser 74 above. 1696 feet of boring and associated tests. | WAPDA & The World Bank. | Coode & Partners (U.K.). |
| 85 | MANGLA-KHARIAN TRANSMISS- ION LINE. 132 KV Transmission Line to distribute Mangla Dam Power. | Soil investigations with field and laboratory tests for foundations of towers. 272 ft. of borings and tests. | AEI-English Electric (Pak) Ltd., Lahore. | |
| 86 | HFF-TAXILA. Heavy Forge and Foundry Complex, being constructed with Chinese assistance. | Site Investigations for factory and foundations for heavy plant and equipment. 1696 ft. of borings and associated tests. | The Chief Engineer W.P.I.D.C. Karachi. | |
| | | 1972 | | |
| 87 | LAHORE. Provision of additional drinking water supplies to the provincial metropolitan town of Lahore. | Installation of 9 large capacity tubewells. Stringent specifications with development & testing to 6 cusecs. 4,814 feet of drilling. | Lahore Improvement Trust (LIT) Lahore. | |
| 88 | GUJRANWALA. Natural Gas transmission pipeline crossing of the Upper Chenab Canal. | Driving of prefabricated steel shell piles to 'refusal.' Cementing piles & constructing necessary pipeline appurtenances for pipeline canal crossing. 6 in. x 16 in. dia. shell piles. 211 ft. piling. | Sui Northern Gas Pipelines Ltd., Lahore. | |
| 89 | KHEWRA. Chemical Factory of Imperial Chemical Industries (Pakistan). | Turnkey tubewell installation with pumping tests. 220 ft. of tubewell borings. | Imperial Chemical Industries (Pak) Ltd. | |
| 90 | SIL RIVER. River crossing of natural gas transmission pipelines. | Exploratory boring and related tests for the Meyal-Dhullian section of the pipeline. 120 ft. of borings and related tests. | The Sui Northern Gas Pipelines Ltd., Lahore. | |
| 91 | TAUNSA. Transmission line tower foundations over Indus River, at Taunsa. | Cast-in-situ 48 in. dia piles, concreting of caps, pedestals and beams involving 20 feet dewatering. | WAPDA. | |
| 92 | MANDIALI. Industrial water supply scheme. | Installation of one tubewell for provision of water supply to Mill. 200 feet of tubewell boring. | Pakistan Paper Products Ltd. | |
| | | 1973 | | |
| 93 | JHELUM. Additional water supply for existing tobacco factory. | Installation of one tubewell.240 ft. of tubewell boring. | Pakistan Tobacco Company Ltd. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|---|--|--|
| 94 | HASSANABDAL. Water supply for a textile mill. | Installation of one tubewell for provision of water supply to Mill. 267 feet of tubewell boring. | Monnoo Textile Industries Ltd. | |
| 95 | NEW KHANPUR. Town for Rehabilitation of persons displaced by construction of Khanpur Dam Project. | Provision of drinking water for New Khanpur Township. 200 feet of tubewell boring. | The Executive Engineer, Khanpur. | |
| 96 | DAUDKHEL. Foundation investigations of fertilizer factory. | Subsoil investigations for evaluation of the present conditions of the foundation structure. 677 feet of | The Pak American Fertilizer Company. | Associated Consulting Engineers, |
| 97 | ISMAILABAD (MULTAN).Additional water supply for the Colony Textile | Installation of one Tubewell. 300 ft. of tubewell boring. | Multan Cotton Industries. | (ACE) Ltd., (Pakistan). |
| 98 | Mills. MUZAFFAR GARH. Additional water supply for a cotton mill. | Installation of one Tubewell. 300 ft. of tubewell boring. | Multan Cotton Industries. | |
| 99 | SIALKOT CANTT. Proposed Sewerage Disposal Scheme for Cantonment. | Subsoil investigation for the Cantt. Area. 538 ft. of borings and tests. | CMES (Army) Kharian Cantt. | |
| 100 | SIALKOT CANTT. Additional drinking water for Army Units. | Turnkey installation of 4 tubewells 1400 ft. of tubewell borings. | CMES (Army) Kharian Cantt. | |
| 101 | TAXILA. Additional water supply for Heavy Foundry and Forge Complex at Taxila. | Turnkey installation of 8 tubewells in difficult formations. 1,520 feet of tubewell borings. | W.P.I.D.C. Karachi. | |
| 102 | MANGLA CANTT. Additional water supply. | Installation of 2 tubewells. 400 feet of tubewell borings. | CMES (Army) Kharian Cantt. | |
| 103 | KOTRI. Multispan major railway bridge over the River Indus. | Complete off shore subsoil investigations for pier foundations. 1774 ft. of boring and sampling. | Railway Board. Pakistan Railways. | |
| | | 1974 | | |
| 104 | LAHORE. Proposed PIDC House at Egerton Road. Multistorey commercial Building. | Subsoil Investigation for foundations. 106 feet of boring, sampling and allied tests. | W.P.I.D.C. Karachi. | |
| 105 | AZAD KASHMIR. Peoples Works programme-Kasguma, Maira Jattan. | Turnkey installation of 2 Tubewells. 418 ft of tubewell borings. | Local Govt. PWD Mirpur (AK). | |
| 106 | RASUL BARRAGE. A major component of the Indus Basin Project on the Jhelum River to divert 100,000 cusecs to the Rasul-Qadirabad-Link canal and 6,000 cusecs to the Lower Jhelum irrigation canal. | Installation of 2 piezometers at Rasul Barrage at difficult locations. Work included dewatering through well points and drilling in concrete through barrage floor. | WAPDA. | |
| 107 | AZAD KASHMIR. Proposed road bridge on Bhimber nullah near Bhimber town. | Complete Subsoil investigations for bridge pier foundations. 376 feet of boring, sampling and tests. | Executive Engineer Development PWD, Mirpur (AK). | Akbar & Aleem (Pakistan). |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|---|--|--|
| 108 | BHIMBER NULLAH. 220 K.V. Transmission Line, near Lalamusa Town. | Construction of pile foundations for 6 towers in Bhimber Nullah.1,296 ft. of piling. | WAPDA & Societa Anonima Electraficazione (SAE) (Italy). | |
| 109 | PALKHU NULLAH. 220 KV Transmission line near Wazirabad Town. | Construction of pile foundations for 3 towers Mangla - Kala Shah Kaku Transmission Line. 300 ft. of Piling. | WAPDA. | |
| 110 | KALABAGH DAM PROJECT. 260 feet high proposed dam on River Indus at Kalabagh downstream of the confluence of Indus and Soan Rivers. | Subsurface explorations for Kalabagh Dam Project, covering investigatory boreholes on land as well as in the River Indus.1,800 ft. of core drilling and tests. | Director General P&I, WAPDA. | Associated Consulting Engineers (ACE) Ltd. (Pakistan). |
| | | 1975 | | |
| 111 | WARSAK - PESHAWAR SCARPS AREA.Reclamation Project to reclaim nearly 30,000 acres affected by the twin menance of water logging and salinity. | Turnkey installation &comissioning of 64 tubewells in Kafur Dheri Unit of Peshawar SCARP. 11,439 feet of tubewell borings using heavy percussion rigs and large diameter casings. | WAPDA (SCARP) Peshawar. | |
| 112 | RAIWIND AREA. Public Health Engineering Department water supply schemes. | Installation of tubewells at Raiwind and Jia Bagga towns for the provision of drinking water. 1,160 feet of tubewell borings. | P.H.E.D. & Al-Munir Concern Lahore. | |
| | | 1976 | | |
| 113 | CHINIOT. 500 KV Transmission Line Tarbela-Faisalabad. | Subsoil Investigations for 4 towers near Chiniot. 300 feet of borings. | WAPDA & Imperial Electric Co.Ltd. | |
| 114 | KALABAGH DAM PROJECT. 260 ft. high proposed dam on river Indus downstream of the confluence of the Indus and Soan rivers. | Additional geological & engineering investigations for the dam involving drilling in water. 2000 feet of percussion and core drilling with related tests. | Director General P&I, WAPDA. | Associated Consulting Engineers (ACE) Ltd. (Pakistan). |
| 115 | SHEIKHUPURA-SARGODHA SCARP AREA. Replacement of damaged and deteriorated tubewells. | Turnkey installation & commissioning of 63 tubewells in SCARP I, II & IV, covering an area of approximate 6000 sq.miles. 10,000 feet of tubewell borings. | WAPDA. (SCARP) Lahore. | (Tukisun): |
| 116 | KAHUTA COMPLEX.Proposed Special production Unit in Kahuta Area. | Geohydrological investigations aimed at location of potable water & to examine water resources potential in Kahuta Area. 457 feet of borings and tests. | Special Works Organization Rawalpindi. | |
| 117 | N.W.F.P. AREA. Govt. of N.W.F.P. Workers Welfare Board, uplift scheme. | Installation of 4 Tubewells for workers colonies at Industrial Estates, Peshawar, Mingora (Swat), Kohat, and Amangarh (near Nowshera). 830 feet of tubewell boring. | N.W.F.P. Workers Welfare Board Peshawar. | |
| 118 | KAMRA . For Defence Production Board. | Installation of 4 tubewells for drinking water at Kamra. 850 feet of tubewell boring. | CMES (DPB) Kamra. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 2,00 | <u> </u> | OZ 11 OZZED | | |
| 119 | JHANGI SAIDAN. Rawalpindi Cantt. water supply scheme. | Installation of tubewell for Rawal- pindi Cantonment water supply scheme, 350 ft. of tubewell borings. | CMES (Army) Rawalpindi. | |
| 120 | KAMRA. For Defence Production Board. Dewatering system. | Installation of 7 shallow tubewells at Kamra for dewatering. 1,200 feet of tubewell borings. | CMES (DPB) Kamra. | |
| 121 | KAMRA AIRFIELD. For Defence Production Board. Anti-water Logging Investigations. | Drilling of test holes and field laboratory tests to investigate the Geohydrological formations & to establish values for safe soil pressure to to be used in the design of foundation structures. 1774 ft. of borings. | CMES (DPB) Kamra. | Al-Saadi Technical & Management Consultants. Lahore |
| 122 | LAHORE. Steel Fabrication. | Fabrication of 1200 ft of 48 in. dia. and 450 ft. of 12 in. dia. M.S. pipe. | Oriental Engineers Lahore. | |
| 123 | LAHORE AREA. SCARP Tubewells R&D and rehabilitation programme. | Physical extraction of tubewell installed fifteen years ago to check condition of fixture materials, using specially designed equipment and jetting techniques. | O&M Division WAPDA O.D.A. (U.K.) | |
| | | 1977 | | |
| 124 | LAHORE CANTT. Water supply scheme for Cantt area. | Installation of tubewell for drinking water for CMH Lahore Cantonment. 353 feet of borings. | CMES (A) Lahore Cantt. | |
| 125 | HAVELIAN. Water supply for Pakistan Ordnance Factories. | Turnkey installation of 6 tubewells for Factories at Havelian. 1530 feet of tubewell borings in large gravels and boulders. | Chief Engineer (Works) POF Wah Cantt. | |
| 126 | LAHORE. Steel Fabrication. | Fabrication of 2300 ft. of M.S. Pipe 48 in. dia. | National Water Supply Services. | |
| 127 | INDUS SUPER HIGHWAY D.G.KHAN GANDI UMAR KHAN SECTION. Proposed 850 miles Super Highway on right bank of river Indus linking Karachi with Peshawar. | Soil investigations at road structure locations, logging and taking of disturbed and undisturbed samples. Full range of laboratory tests and production of comprehensive report. | National Highway Board Islamabad. | NESPAK (Pakistan) Republic Engg. Corporation Ltd., (Pakistan). |
| 128 | LAHORE CANTT. Water Supply scheme in Cantt area. | Installation of tubewell in Ghazni Lines, Lahore Cantt. 377 feet of borings. | CMES (Army) Lahore Cantt. | |
| 129 | TAXILA - HRF. (PROJECT P-711) Water Supply for Factory. | Installation of 3 tubewells at Usman Khatar, Taxila. 622 ft of borings. | CMES (DP) Taxila. | |
| 130 | LAHORE. Steel Fabrication. | Fabrication of 12 in dia. M.S. Pipes with thread protectors and shoes. | Lahore Steel Corporation. | |
| 131 | LAHORE. Steel Fabrication. | Fabrication of 2 Floating Platforms with allied super-structure for river drilling at Kalabagh Dam site. | For Company use. | |
| 132 | GUJRANWALA CANTT.Water supply Supply Scheme. | Installation of new Tubewell in A-4 area. 360 feet of borings. | CMES (A) Gujranwala. | |
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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 110. | <u> </u> | OI WOLKS | 1 | |
| 133 | WAH CANTT. Pakistan Ordnance Factories water supply scheme. | Installation of 3 Tubewells in estate area. 876 ft. of borings. | Chief Engineer (Works) POF, Wah Cantt. | |
| 134 | LAHORE. Manufacture of Drilling Equipment. | Fabrication and manufacture of straight Rotary Drilling Rig. | Ground Engineering Services Limited. | |
| 135 | LAHORE. Steel Fabrication and Erection. | Fabrication and erection of steel truss roof in workshop building. | Ground Engineering Services Limited. | |
| 136 | LAHORE. Multi-storey building complex soil investigations. | Subsoil Investigation for building on Plot No. 83 Circular Road, Lahore. 110 feet of boring, ampling, tests and report. | Adam Ltd., Lahore. | Bashir Associates Karachi. |
| 137 | LAHORE. Industrial Building soil investigations. | Subsoil Investigation for proposed extension of existing factory. | Paintex Ltd. (ICI) Lahore. | |
| 138 | LAHORE. Manufacture of Equipment. | Fabrication of 5 Heavy Duty Tractor Trollies. | For Company use. | |
| | | 1978 | | |
| 139 | LAHODE Industrial victor cumply | Installation of tubewell at Badami | DECO I to I above | |
| 139 | LAHORE. Industrial water supply. | Bagh Works. 360 feet of borings. | PECO Ltd., Lahore. | |
| 140 | RISALPUR CANTT. Water supply scheme in Cantt area. | Installation of 2 tubewells including construction of Pump houses and provision of Chlorinators. 700 feet of borings. | DW & CE (Army) GHQ, Rawalpindi. | |
| 141 | MULTAN. Special foundations grouting. | Pressure Grouting of Turbine Foundations of Natural Gas Power Station. | Resident Engineer N.G.P.S. WAPDA, Multan. | |
| 142 | WAH CANTT. Special foundations at Pakistan Ordnance Factories for heavy machines. | Design and construction of Foundations of 4,000 tons press. Working in difficult restricted space including underpinning foundations by piling, guniting and grouting. | Chief Engineer (Works) POF, Wah Cantt. | |
| 143 | CHAKLALA. Water supply | Installation of tubewell at ERL | Special Works | |
| 144 | scheme. LAHORE. Agricultural equipment | Workshop. 340 feet of borings. Manufacture and assembly of auto- | Org. Rawalpindi. Arbor Acres | |
| | and implements. | matic poultry feed equipment. | Limited. | |
| 145 | SHEIKHUPURA. Industrial Water Supply. | Installation of 2 Tubewells for Fertilizer Factory at Sheikhupura. 561 feet of borings. | Dawood Hercules Limited. | |
| 146 | LAHORE. Steel Fabrication. | Fabrication of 12 in dia M.S. Casing with thread protectors and driving shoes. | Lahore Steel Corporation. | |
| 147 | TAXILA - HRF (Project P-711). For Defence Production Board. Rebuilding and repairs with Gunite. | Rebuilding of reinforced concrete tank test track by reinforced gunite and pressure grouting. | CMES (DPB) Taxila. | |
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| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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| No. | | of Works | | |

| | | 1979 | | |
|-----|--|---|--|---|
| 148 | KAMRA AIRFIELD. Water Supply. | Installation of 3 tubewells for drinking water at Kamra.955 ft.of borings. | DW & CE (DP) GHQ, Rawalpindi. | |
| 149 | NOWSHERA-PESHAWAR HIGHWAY. Rehabilitation of existing highway. | Subsurface exploration at road structure locations, including full range of laboratory tests and comprehensive report. 640 metres of boring and laboratory testing. | Ministry of Communication Govt. of Pakistan, Islamabad. | Progressive Consultants Lahore. |
| 150 | MARDAN. Municipal Water Supply. | Installation of 2 Tubewells for drinking water. 718 feet of borings. | Administrator Municipal Corpn, Mardan. | |
| 151 | DANDOT CEMENT. New Cement factory investigations | Complete Subsoil Investigation for a Cement Factory. | State Cement Corporation of Pakistan. | NESPAK Ltd., Lahore. |
| 152 | KOHAT CEMENT. New Cement factory investigations. | Complete Subsoil Investigation for a Cement Factory. | State Cement Corporation of Pakistan. | Industrial Cement Engineers Ltd., Lahore. |
| 153 | MANGLA CANTT. Water Supply. | Installation of 2 tubewells for drinking purposes. 388 feet of boring. | CMES (Army) Kharian Cantt. | Lanore. |
| 154 | KAMRA. Research and development. | Subsoil Investigations at Kamra, involving bearing tests to investi- | CMES (DP) Kamra. | |
| 155 | WAH CANTT. Ordnance factory site. | gate settlement in structures. Subsoil Investigation of Factory on Budho Road.600 metres of percussion drilling with allied tests and full scale report. | S.E. (Works) POF Wah Cantt. | |
| 156 | MARDAN SCARP AREA. Water logging Reclamation Project. | Installation of 16 Tubewells on Turnkey Basis in difficult water logged areas. 5,400 feet of borings. | Chief Engineer (Water) WAPDA Peshawar. | |
| 157 | MULTAN CANTT. Water Supply. | Installation of 5 Tubewells for drinking purposes. 1,283 feet of borings. | CMES (Army) Multan Cantt. | |
| 158 | BANNU SCARP AREA. Multi-million rupees Antiwater Logging & Salinity Control Project. | Installation of 40 Tubewells and appurtenant works in Bannu SCARP Area in N.W.F.P. on turnkey basis. Drilling in difficult and hard stratas, requiring the use of heavy rigs. | Chief Engineer (Water) WAPDA Peshawar. | |
| 159 | DAUD KHEL. Mineral exploration (USAID). | 10,166 feet of borings. Exploratory diamond core drilling for Gypsum. Over 1,000 feet of tricone and core drilling in limestone and Gypsum. | Government of Pakistan. | MWS Consultants Inc. (USA) and United Consultants Ltd. (Pakistan). |
| 160 | DERA NAWAB. Water Supply. | Installation of Tubewell for drinking water. 252 feet of boring. | CMES (Army) Multan Cantt. | |
| 161 | ARMY AVIATION BASE MULTAN. Water Supply. | Installation of Tubewell for drinking water. 230 feet of boring. | CMES (Army) Multan Cantt. | |

| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
|--------------------------|--|--|--|-------------------------|
| No. | 1 Toject 1 articulars | of Works | Chemis | Consultants |
| 1101 | | OI TOTAL | | |
| | | | | |
| 162 | CHENAB RIVER. Near MUZAFFAR- | 48 in. dia bored cast-in-situ piles for | WAPDA & Greaves | NESPAK Ltd., |
| | GARH. 500 KV Transmission Line | 4 towers including pile caps and | Cotton & Co. (Pak) | Lahore. |
| | Towers. | beams. 1,400 feet of piling. | Limited. | |
| 163 | MANGLA POWER HOUSE. 8x100MW | Drilling Holes through concrete for | WAPDA & N.C.(Pak) | NESPAK Ltd., |
| | Hydel Power Station at Mangla Dam. | grouting Dowel Bars. 2,766 feet of | Limited. | Lahore. |
| | | drilling in R.C.C. and grouting. | | |
| 164 | HUB DAM PROJECT. Multi-Million | Drilling for 14 in. diameter Relief | Chief Engineer | ACE Ltd., |
| | Rupees Irrigation and Power Supply | Wells by percussive & tricone rotary | Karachi Irrigation | (Pakistan). |
| | Project for Karachi Area. | rigs in hard lime stone, down stream | Project (WAPDA). | |
| | | of the dam. 1,258 feet of borings. | | |
| 165 | GOTH MACHHI. Fertilizer Factory, | Dewatering to a depth of 3 metres for | Fauji Fertilizer & | |
| | dewatering for foundations | construction of prilling and cooling | National Construction | |
| | construction. | towers. | Limited. | |
| 166 | MALIR RIVER KARACHI. Pak-Arab | Subsoil Investigation and Design of | Pak-Arab Refinery | |
| | Refinery and Pipe line Project. | 18 in. dia pile piers for 20 in. Pipe- | Co. Ltd., (PARCO) | |
| | | line Crossing on Malir River. | Karachi. | |
| 167 | PIPRI - KARACHI. Pakistans first | Planning, design and execution of | Pak Steel &National | USSR experts. |
| | multi-billion rupees integrated Steel | dewatering for scale pit of the hot | Construction Ltd. | |
| | Mills. Dewatering operations. | strip mill by the installation of deep turbine wells and constant | | |
| | | pumping for over 12 months. The | | |
| | | depth of the water table was lowered | | |
| | | by 32 feet. | | |
| | | | | |
| | | 1980 | | |
| 168 | NWED TRIBAL AREAS Water | | EATA Davelopment | |
| 168 | N.W.F.P. TRIBAL AREAS. Water Supply Schemes. | Installation of 25 Tubewells in Boya | FATA Development Corporation | |
| 168 | | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in | - | |
| 168 | | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- | Corporation | |
| 168 | | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in | Corporation | |
| 168 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa | Corporation | |
| | Supply Schemes. | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of | Corporation Peshawar. | |
| | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa | Corporation Peshawar. Novelty Enterprises | |
| | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of | Corporation Peshawar. Novelty Enterprises | |
| 169 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- | Corporation Peshawar. Novelty Enterprises Limited. | |
| 169 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main | Corporation Peshawar. Novelty Enterprises Limited. Consulate General | |
| 169 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- | Corporation Peshawar. Novelty Enterprises Limited. Consulate General | NESPAK Ltd., |
| 169 170 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and | NESPAK Ltd., Lahore. |
| 169 170 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. | |
| 169 170 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and | |
| 169 170 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. | |
| 169 170 171 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and | |
| 169 170 171 | Supply Schemes. AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. | |
| 169 170 171 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project for NLC. Structural reinforcement. | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and Shaheen Builders. | |
| 169 170 171 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) Installation of two tubewells in | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and Shaheen Builders. | |
| 169 170 171 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project for NLC. Structural reinforcement. | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and Shaheen Builders. | |
| 169 170 171 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project for NLC. Structural reinforcement. | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) Installation of two tubewells in Fertilizer Factory. 400 ft.of boring. Replacement of one tubewell for | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and Shaheen Builders. Pak American Fertilizer Ltd. CMES (Army) | |
| 169 170 171 172 | AZAD KASHMIR MIRPUR. Industrial Water Supply . LAHORE. U.S. Consulate Housing Project. KARACHI. Binnie Shell Grain Storage Project for RECP. Structural reinforcement. VEHARI - ARIFWALA AND BAHAWALPUR. Grain storage Project for NLC. Structural reinforcement. | Installation of 25 Tubewells in Boya Laund Mohammad Khel Agency, Orakzai Agency and F.R. Bannu in remote and difficult terrain and hos- tile territories. 9,357 ft. of borings. Installation of 2 Tubewells for Vespa Scooter Assembly Plant. 521 feet of borings. Subsoil Investigation of Plot at Main Boulevard Gulberg, including comp- rehensive report. 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) 1/2 in. thick Guniting of 55 Bini Shells. Surface area each shell being 12,500 sq.ft. (1.4 million sq.ft. of Guniting.) Installation of two tubewells in Fertilizer Factory. 400 ft.of boring. | Corporation Peshawar. Novelty Enterprises Limited. Consulate General of U.S.A. Lahore. Rice Export Corporation and Shaheen Builders. National Logistic Cell (NLC) and Shaheen Builders. Pak American Fertilizer Ltd. | |

| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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| No. | | of Works | <u> </u> | |
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| 175 | KSB WORKS HASANABDAL. Turbine Pump Factory. | Installation of Tubewell in KSB Works. 215 feet of borings. | KSB Pumps Co. Ltd., Lahore. | |
| 176 | SARAI ALAMGIR (JHELUM). Water Supply. | Installation of Tubewell in Bridging Camp Area. 200 feet of borings. | Corps of Engineers Pakistan Army. | |
| 177 | KOHAT-BANNU. Transmission Line. | Preliminary Subsoil investigation and laboratory testing for the design of piles for transmission line towers. 264 feet of borings with allied tests. | Executive Engineer Constructions Div, WAPDA Rawalpindi. | |
| 178 | GOTH MACHHI. Dewatering for foun- dations and process pipelines at fertilizer factory. | Dewatering by well-points for an excavated area for laying process pipelines to a depth of 4 metres. | Fauji Fertilizer Co. & Aquater S.p.A.(Italy) | |
| 179 | CHOLISTAN. Exploratory Oil drilling operations. | Installation of 2 Tubewells in Cholistan Area for water supply to oil well drill rigs. 511 ft of boring. | Shell Oil & Nasim & Co. Ltd., Karachi. | |
| | | 1981 | | |
| 180 | PESHAWAR. Multi Storey Building. | Subsoil Investigation for multi- storeyed building inlcuding Dutch Cone soundings and laboratory tests. 390 feet of borings. | State Life Insurance Corporation of Pakistan. Karachi. | Republic Engg. Corporation Ltd., Lahore. |
| 181 | HATTAR. Structural repairs to cement plant. | Repairs to Crusher structure and Clin- ker tower by chiping, refabrication, Guniting and Grouting during a brief shut down of the factory. | Mustehkam Cement Ltd., Rawalpindi. | INCEM Lahore. |
| 182 | JHELUM. Additional Water Supply for factory. | Installation of one Tubewell. 250 ft. of tubewell boring. | Pakistan Tobacco Co. Ltd., Jhelum | |
| 183 | RIVER JHELUM. 132 K.V. Transmission Line. | Construction of 48 in.dia.bored castin-situ pile foundations for transmission line towers of Head Faqirian-Dandot. 132 KV (DC) Transmission line. | Project Director GSC, WAPDA, Lahore. | |
| 184 | CLIFTON KARACHI. Housing Complex. Structural repairs. | Structural strengthening of multi- storey buildings by reinforced gunite. Reinforcement of approx. 380 RCC columns by Gunite. | Maymar Housing Services Ltd. Karachi. | |
| 185 | D.G.KHAN. Water Supply Scheme. | Civil Works for permanent water supply for cement factory, including intake structures, storage tanks and regulators. | D.G. Khan Cement Co. Ltd., Lahore. | INCEM Lahore. |
| 186 | JHELUM CANTT. Water Supply Scheme. | Installation of a Tubewell at Sher Dil Lines. 204 feet of boring. | CMES (Army) Kharian Cantt. | |
| 187 | NWFP TRIBAL AREAS. Water supply schemes in tribal areas of North Pakistan. | Installation of 23 Tubewells in Khyber, Orakzai and other tribal Agencies. Heavy percussion drilling | FATA Development Corporation, Peshawar. | |
| 188 | JHELUM. Rani Ghee Mills & Motor Scooters Factory Tariqabad (AK). | in remote areas.6775 feet of borings. Installation of 3 Tubewells in Mills premises. 827 feet of borings. | Novelty Enterprises Ltd., Mirpur (AK). | |
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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 10. | <u> </u> | OI WOLKS | <u> </u> | <u> </u> |
| 189 | SHEIKHUPURA. NASIC Glass Works water supply. | Installation of 2 Tubewells in the premises of Glass Factory. 830 feet of borings. | M/S Nasir Siddiq Corporation Lahore. | Allied Engineering Corporation Ltd., (Pakistan). |
| 190 | KHANKA DOGRAN. Grain Godown Project of NLC. | Soil Investigation, field and laboratory tests and comprehensive report. 100 feet of borings. | NLC, GHQ, Rawalpindi. | Republic Engg. Corporation Ltd., Lahore. |
| 191 | CHICHAWATNI. Multi Million Rupees Grain Silos Project. | Soil Investigation for Grain Silos with usual field and laboratory tests and comprehensive report. 300 feet of borings. | NLC, GHQ, Rawalpindi. | Republic Engg. Corporation Ltd., Lahore. |
| 192 | MANGLA CANTT. Additional Water Supply Scheme. | Installation of a Tubewell and allied works in Cantt Area.205 ft of boring. | CMES (Army) Kharian Cantt. | |
| 193 | CHARSADDA. Industrial Water Supply. | Installation of Tubewell at paper mills colony. 350 feet of borings. | Pakistan Paper Corporation Ltd., Peshawar. | |
| 194 | DUHOK DAM - DUHOK, IRAQ. Multi- million dollars Dam and Irrigation Project in Northern Iraq for Ministry of Irrigation and State Organisation for Dams. Govt. of Iraq. | Complete drilling and grouting for main dam grout curtain, 7m dia x 1500 mtrs long diversion tunnel and 2 Km long irrigation tunnel. Approx 50000 mtrs of core/non core drilling and other tests. Over 7,000 hours of pressure grouting and 5,000 tonnes of grout injection. Work under difficult war conditions over a 7 years period. | Ministry of Irrigation Govt. of Iraq & Engineering Services International (E.S.I.), Dubai (UAE). | Agro Complet, (Bulgaria). |
| | | 1982 | | |
| 195 | KAKUL - (ABBOTTABAD). Water Supply Project. Tobe Camp. | Installation of Tubewell, pump set, rising main, external electrification and Pump House. 222 feet of borings. | DW & CE (Army) GHQ, Rawalpindi. | |
| 196 | KHAIRPUR. Multimillion rupees Grain Silos, Project for National Logistic Cell (NLC). | Turnkey project for battery of 14 slipformed RCC grain silos 50,000 tons capacity. Work included design and construction of grain silos, procurement, fabrication and installation of automatic grain cleaning and handling equipment capacity 100 tons/hour. Automatic Aeration and temperature control equipment. Ancillary storage building, roads, and other services. Operation, maintenance and training of clients staff. | National Logistic Cell (NLC) GHQ, Rawalpindi. | Pioneer Consultants. NESPAK. Ltd. Industrial & Civil Engineers. Karachi. |
| 197 | JAMMU TAWI RIVER. 132 KV Transmission Line. | Soil Investigation for R.C.C. Pile foundation in the bed of river near Bajwat with field and laboratory tests & report. 300 feet of borings. | XEN (Civil) Construction Division, WAPDA Lahore. | |
| 198 | | Soil Investigation of Plot for Const- | Grindlays Bank | Republic Engg. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 199 | RAWALPINDI. Water Supply. | Installation of Tubewell at GD Lines JSHQ Chaklala. 380 feet of borings. | CMES (Army) Rawalpindi. | |
| 200 | PIR PIHAI & SARGODHA. Storage godowns water proofing. | Approx 1,00,000 sq.ft. of 1/2 in. Water Proof Gunite to godown roofs being constructed for wheat storage. | National Logistic Cell (NLC),GHQ & Hakeem Khan & Sons. | Republic Engg. Corporation Ltd., (Pakistan). |
| 201 | LAHORE. Railway overhead bridge. | Subsoil Investigation for Ghari Shahu Overhead bridge on Shalimar Road, Lahore. 467 ft of borings with allied tests. | Director Roads, LDA Lahore. | NESPAK Ltd., Lahore. |
| 202 | MULTAN - Water Supply. | Installation of tubewell & provision of pumping equipment, chlorinator, etc., at Mailsi. 343 feet of borings. | CMES (Army) Multan Cantt. | |
| 203 | BAHAWALPUR. Water Supply. | Installation of tubewell, pumping equipment, chlorinator, etc., at Yazman Lines, Bahawalpur. 253 ft of borings. | CMES (Army) Multan Cantt. | |
| 204 | KILA SAIFULLAH - ZHOB ROAD - BALUCHISTAN. Bridge sites inves- tigations. | Subsoil Investigation for construc- tion of 14 bridges between Kila Saifullah-Zhob Road. 655 feet. of borings with allied tests. | Director General National Highway Board, Islamabad. | |
| 205 | JHELUM CANTT. Improvement of Water Supply. | Installation of 2 Tubewells with turbine pump, construction of pump house etc. 498 ft. of borings. | DW & CE (Army) GHQ, Rawalpindi. | |
| 206 | TARBELA DAM. Multipurpose earth and rock fill dam on the Indus River. 9000 feet long 480 ft. high 2,100 MW of hydropower | Drilling of 9 Relief Wells by heavy percussion rigs involving overburden and installation of pumping sets for dewatering the area down stream of tunnels Number 4 and 5 Contract No. 651 E. 456 feet of drilling for relief wells. | COLROCK Joint Venture & Indus River Contractors. | |
| 207 | PABBI HILLS. Exploratory Oil Drilling Operations. | Installation of Tubewell for water supply to oil well drilling rigs. 1085 feet of borings. | Nasim & Co. Ltd., Karachi. & Shell Oil. | |
| | | 1983 | | |
| 208 | TARBELA DAM. Multipurpose earth and rock fill dam on the Indus River. 9,000 ft. long 480 ft. high embankment. 2,100 MW of hydropower. | Drilling & grouting of left abutment in adits of 7 ft. dia. below main dam. Approx. 39,000 feet of drilling, pressure grouting, including pressure tests. Contract No. 651 H. | WAPDA. & Indus River Contractors. With Colcrete, Rodio & Keller. Joint Venture | T. A. M. S.(USA) |
| 209 | KALABAGH DAM PROJECT. Multi- purpose 260 feet high proposed Dam on River Indus at Kalabagh. | Additional subsurface exploration on right bank of the Indus, covering investigatory boreholes, in-situ testing and collection of disturbed/undisturbed samples and cores. 2,900 ft. of core and non-core drilling and 1,150 feet percussion boring. Contract No. 102. | Chief Engineer Hydro Electric Projects (H.E.P) WAPDA. | Kalabagh Consultants. |

| 210 BASHA DAM PROJECT. Proposed Multi purpose, 1700 feet high dam on River Indust at Basha near Chilas along the famous Karakoram highway. 211 LAHORE. Provision of Water Supply. 212 ISLAMABAD. Industrial Water Supply. 213 CHARSADDA. Industrial Water Supply. 214 PARINAN STEEL-PIPRI KARACHI. A multi-billion types project for manufacture of steel products in Pakistan set up with Soviet assistance. 215 JIIELOM. Water Supply. 216 LAHORE CANTI. Water Supply Scheme. 217 WAN RADHA RAM. THIRD IBRD PROJECT. Rehabilitation of the Root of Highway including and Highway including shotcrete/Gunite. 218 HYDERABAD. Zeri Polescient Repairs to RCC Structures by removing duranged concrete re-building of Silos. Clinker hopper and shurry elevations with Gunite. 218 HYDERABAD. Zeri Polescient Repairs to RCC Structures by removing duranged concrete re-building of Tubewell and Factory. Structural repairs with shotcrete/Gunite. 219 DHAUNKAI. (WAZIRARAD) PNP Rice Mills. Water supply. 220 ABBOTTABAD CANTI. New Officers Mess. 221 LAHORE CANTI. Water Supply. 222 ABBOTTABAD CANTI. New Officers Mess. 223 PESHAWAR CANTI. Provision of Drinking Water. 224 PESHAWAR CANTI. Provision of Drinking Water. 225 PESHAWAR CANTI. Provision of Drinking Water. 226 PESHAWAR CANTI. Provision of Drinking Water. 227 PESHAWAR CANTI. Provision of Drinking Water. 228 PESHAWAR CANTI. Provision of Drinking Water. 229 PESHAWAR CANTI. Provision of Drinking Water. 220 PESHAWAR CANTI. Provision of Drinking Water. 221 PESHAWAR CANTI. Provision of Drinking Water. 222 PESHAWAR CANTI. Provision of Drinking Water. 223 PESHAWAR CANTI. Provision of Drinking Water. | Ser No | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| Multi purpose, 1000 feet high dam on River Indus at Basha near Chilas along the famous Karakoram highway. But a seed of the s | 110. | | OI WORKS | <u> </u> | |
| Installation of tubewell at proposed World Cury standard Hockey Stadium. 203 feet of boring. 203 feet of boring. 212 ISLAMABAD. Industrial Water Supply. 223 CHARSADDA. Industrial Water Supply. 224 INSTANTINE PRINCE PR | 210 | Multi purpose, 1,000 feet high dam on River Indus at Basha near Chilas along the famous Karakoram | on-shore and off-shore. Sampling and tests. Drilling to locate bedrock and materials in surrounding borrow areas. 3,000 ft. rotary and percussion drilling in remote and difficult | Hydro Electric Projects (HEP) | |
| Installation of tubewell for Punjab Oil Mills Ltd., Islamabad. | 211 | | Installation of tubewell at proposed World Cup standard Hockey Stadium. | | |
| Suppy. Pakistan Paper Mills Colony. Corporation Ltd., Peshawar. | 212 | | Installation of tubewell for Punjab | • | |
| 214 PAKISTAN STEEL-PITRI KARACHI. A multi- billion rupes project for manufacture of steel products in Pakistan set up with Soviet assistance. 215 JHELUM. Water Supply. 216 LAHORE CANTT. Water Supply Scheme. 217 WAN RADHA RAM. THIRD IBKD PROJECT. Rehabilitation of Tubewell at Walton PROJECT. Rehabilitation Project Proj | 213 | _ | Pakistan Paper Mills Colony. | Corporation Ltd., | |
| Installation of tubewell at tobacco factory. 210 feet tubewell boring. Co., Ltd., Jhelum. | 214 | A multi - billion rupees project for manufacture of steel products in Pakistan set up with Soviet | 2 in. thick Gunite lining of chimney for Unit No. 1, of Pipri power house. | KESCO & Messrs Suleman & | |
| 216 LAHORE CANTT. Water Supply Scheme. 217 WAN RADHA RAM. THIRD IBRD PROJECT. Rehabilitation of the National Highway including structures. 218 HYDERABAD. Zeal Pak Cement Factory. Structural repairs with shotcrete/Gunite. 219 DHAUNKAL (WAZIRABAD) PNP Rice Mills. Water supply. 220 ABBOTTABAD CANTT. New Officers Mess Officers Mess with usual field and laboratory tests and report. 221 LAHORE CANTT. Water Supply. 222 MANGLA CANTT. Water Supply Scheme. 223 PESHAWAR CANTT. Provision of Drinking Water. Installation of Tubewell for State Life Building. 395 feet of boring. Installation of Tubewell of State Life Building. 395 feet of boring. CMES (Army) Lahore Cantt. Director General National Highways Lahore. NESPAK Ltd., National Highways Board, Islamabad. PESPAK Ltd., National Highways Rational Highways Board, Islamabad. Scheme. Comeral Manager, Zeal Pak Cement Factory, Hyderabad. Rice Export Corpn. of Pakistan Lahore. CMES (Army) Abbottabad. CMES (Army) Kharian Cantt. Corporation Ltc Lahore. | 215 | | | | |
| PROJECT. Rehabilitation of the National Highway including structures. 218 HYDERABAD. Zeal Pak Cement Factory. Structural repairs with shotcrete/Gunite. 219 DHAUNKAL (WAZIRABAD) PNP Rice Mills. Water supply. 220 ABBOTTABAD CANTT. New Officers Mess. 221 LAHORE CANTT. Water Supply. 222 MANGLA CANTT. Water Supply Scheme. 223 PESHAWAR CANTT. Provision of Drinking Water. 224 Bridge. 485 feet of boring with allied tests. 235 Bridge. 485 feet of boring with allied tests. 246 Borring Water Structural repairs with ing damaged concrete re-building of Silos, Clinker hopper and slurry elevators with Gunite. 248 Peshawar Cantra repairs with ing damaged concrete re-building of Silos, Clinker hopper and slurry elevators with Gunite. 250 Bridge. 485 feet of boring with allied tests. 251 Board, Islamabad. 252 Structural repairs with ing damaged concrete re-building of Silos, Clinker hopper and slurry elevators with Gunite. 253 Bridge. 485 feet of boring with allied tests. 254 Board, Islamabad. 255 Evantra Manager, Republic Engg. 256 Corporation Ltc. 257 State Life Insurance 268 Carmy) 269 Corporation Ltc. 269 Careal Manager, Republic Engg. 270 Corporation Ltc. 271 Lahore. | 216 | ** * | Installation of Tubewell at Walton | CMES (Army) | |
| HYDERABAD. Zeal Pak Cement Factory. Structural repairs with shotcrete/Gunite. 219 DHAUNKAL (WAZIRABAD) PNP Rice Mills. Water supply. 220 ABBOTTABAD CANTT. New Officers Mess. 221 LAHORE CANTT. Water Supply. 222 MANGLA CANTT. Water Supply Scheme. 223 PESHAWAR CANTT. Provision of Drinking Water. Repairs to RCC Structures by removing damaged concrete re-building of Silos, Clinker hopper and slurry elevators with Gunite. 244 Cement Factory, Hyderabad. 255 Rice Export Corpn. of Pakistan. Lahore. 250 ABBOTTABAD CANTT. New Officers Mess with usual field and laboratory tests and report. 261 Distallation of Tubewell at Sarfaraz Rafiqui Road. 310 feet of borings. 262 ABBOTTABAD CANTT. Water Supply Installation of Tubewell at Sarfaraz Rafiqui Road. 310 feet of borings. 263 Pashawar Cantt. 264 Cement Factory, Hyderabad. 264 CEXPOTT Corpn. of Pakistan. Lahore. 275 CMES (Army) Kharian Cantt. 276 Corporation Ltd. State Life Insurance Lahore. | 217 | PROJECT. Rehabilitation of the | Bridge. 485 feet of boring with | National Highways | NESPAK Ltd., Lahore. |
| DHAUNKAL (WAZIRABAD) PNP Rice Mills. Water supply. Installation of Tubewell. 300 feet of boring. 1984 220 ABBOTTABAD CANTT. New Officers Mess. Officers Mess with usual field and laboratory tests and report. 221 LAHORE CANTT. Water Supply. Installation of Tubewell at Sarfaraz Rafiqui Road. 310 feet of borings. MANGLA CANTT. Water Supply Scheme. 222 MANGLA CANTT. Water Supply of boring. Installation of Tubewell. 150 feet of borings. 223 PESHAWAR CANTT. Provision of Drinking Water. Installation of Tubewell for State General Manager, Republic Engg. Corporation Ltc. State Life Insurance Lahore. | 218 | HYDERABAD. Zeal Pak Cement Factory. Structural repairs with | ing damaged concrete re-building of Silos, Clinker hopper and slurry | Zeal Pak Cement Factory, | |
| 220 ABBOTTABAD CANTT. New Officers Mess. Officers Mess with usual field and laboratory tests and report. 221 LAHORE CANTT. Water Supply. Installation of Tubewell at Sarfaraz Rafiqui Road. 310 feet of borings. GHQ, Rawalpindi. 222 MANGLA CANTT. Water Supply Scheme. Installation of Tubewell. 150 feet of boring. Kharian Cantt. 223 PESHAWAR CANTT. Provision of Drinking Water. Life Building. 395 feet of boring. Real Estate Div., State Life Insurance Lahore. | 219 | | Installation of Tubewell. 300 feet | Rice Export Corpn. | |
| Officers Mess with usual field and laboratory tests and report. 221 LAHORE CANTT. Water Supply. Installation of Tubewell at Sarfaraz Rafiqui Road. 310 feet of borings. GHQ, Rawalpindi. 222 MANGLA CANTT. Water Supply Scheme. Installation of tubewell. 150 feet of boring. Kharian Cantt. 223 PESHAWAR CANTT. Provision of Drinking Water. Installation of Tubewell for State Life Building. 395 feet of boring. Real Estate Div., State Life Insurance Lahore. | | | 1984 | | |
| Rafiqui Road. 310 feet of borings. GHQ, Rawalpindi. 222 MANGLA CANTT. Water Supply Scheme. Of boring. Drinking Water. Rafiqui Road. 310 feet of borings. Installation of tubewell. 150 feet Of boring. Installation of Tubewell for State Life Building. 395 feet of boring. Rafiqui Road. 310 feet of borings. GHQ, Rawalpindi. CMES (Army) Kharian Cantt. General Manager, Republic Engg. Real Estate Div., State Life Insurance Lahore. | 220 | | Officers Mess with usual field | • • | |
| Scheme. of boring. Kharian Cantt. 223 PESHAWAR CANTT. Provision of Drinking Water. Installation of Tubewell for State Life Building. 395 feet of boring. Real Estate Div., State Life Insurance Lahore. | 221 | LAHORE CANTT. Water Supply. | | | |
| Drinking Water. Life Building. 395 feet of boring. Real Estate Div., State Life Insurance Lahore. | 222 | | | • • | |
| Corp. Karachi. | 223 | | | Real Estate Div., | Republic Engg. Corporation Ltd., Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 224 | BELA PLAIN. Ground Water Development Project. (Baluchistan). | Development and Testing of approx. 30 Tubewells of Bela Plain Ground Water Development Project. | General Manager Ground Water Division, B.D.A. Quetta. | |
| 225 | PAKISTAN STEEL - PIPRI. A multi- billion rupees project for manufacture of steel products in Pakistan, set up with Soviet Assistance. | Installation of 20 shallow wells, 20 deep piezometers and 6 deep pumping wells for study of Geohy- drological activities in Pakistan Steel Area. 5,300 feet of borings, tests and observations. | General Manager (Contracts)Pakistan Steel Mill,Bin Qasim Karachi. | |
| 226 | JHELUM CANTT. Water Supply Scheme. | Installation of a tubewell. 230 feet of borings. | CMES (Army) Kharian Cantt. | |
| 227 | SANG JANI. Proposed Cement Project near Islamabad. | Soil Investigations for structural foundations and geological studies for shale and limestone deposits for a cement plant. Approx. 750 metres of core/non core drilling, plate load tests and laboratory tests. | FECTO Cement Ltd., Lahore. | |
| 228 | MIRANSHAH. Federally Administered Tribal Area Development Programme Mineral Exploration. | Exploratory Drilling for Copper deposits at Miranshah, North Waziristan Agency of Federally Administered Tribal Territory. 3,048 metres of core drilling and sampling. | FATA Development Corporation. Peshawar. | |
| 229 | GANDIALLY DAM SITE. Proposed dam in Kohat Distt. | Damsite geotechnical investigations at Gandially Dam Site. Approx. 105 metres of core drilling. | Govt. of NWFP Irrigation Dept. Peshawar. | NESPAK Ltd., Lahore. |
| 230 | KARACHI AIRPORT. Water Supply Scheme. | Installation of 3 Tubewells at Karachi Airport. 756 feet of borings. | General Manager (Works) P.I.A. Karachi. | |
| | | 1985 | | |
| 231 | PAKISTAN STEEL-PIPRI. A multibillion rupees Project set up with Soviet assistance. | Bored Cast-in situ piles for founda- tions of Control Building of Sea Water Pumping Plant. | Pakistan Steel, MacDonald Layton & Co.Ltd.,Karachi. | |
| 232 | NISAI - BALUCHISTAN. Ground water development Project. | Drilling, installation, development and testing of 20 Tubewells in Nisai Ground Water Development Project Area. 3,784 feet of borings. | Baluchistan Development Authority (BDA) Quetta. | |
| 233 | LAHORE. Multi - storey Town terminal building. | Soil investigations, installation of tubewell, and test piling for Town Terminal Building at Egerton Road, Lahore. Construction of 9,700 feet of 24 in. dia. piles and load testing to 300 tons ultimate load. | GM (Works) PIA Karachi. & N.C. Ltd. | |
| 234 | 2ND TARBELA - FAISALABAD 500 KV T/L PROJECT.Investigations and piling. | Soil Investigation and Piling for towers at Jhelum and Chenab River Crossings. 3,608 feet of investigatory borings and construction of 7,383 feet of 36 in. and 48 in. dia piles and associated superstructures. | WAPDA & Imperial Const. Co. Ltd. | NESPAK Ltd., Lahore. |
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| 235 | LARKANA. Provision of drinking water for Urban Water Supply Scheme-Phase III. | Turnkey installation of 8 Tubewells of 3 cusec capacity. 2,040 feet of boring. | Executive Engineer, Public Health Engineering Division, Karachi. | |
| 236 | LAHORE. PIA Town Terminal Building. | Additional Suboil investigation and laboratory testing for re-design of foundations of town terminal | GM (Works) PIA Karachi. | Republic Engg. Corporation Ltd., (Pakistan). |
| 237 | MANGLA DAM. Instrumentation Division Project. | building at Egerton Road. Installation of 14 Piezometers downstream of main dam in Pond Area. | Chief Engineer WAPDA, Mangla Dam. | |
| 238 | MANGLA CANTT. Water Supply Scheme. | Boring of tubewell at Bong Area. Mangla. 170 feet of boring. | CMES (Army) Kharian Cantt. | |
| 239 | SIMLY DAM. Near ISLAMABAD. Provision of water supply to Capital City of Pakistan. | Drilling for instrumentation in dam body, using down the hole/odex drilling techniques and core drilling. 3,050 feet of drilling covering | Capital Development Authority, (CDA) Islamabad. | |
| 240 | LAHORE - BYPASS. National Highway N-5(Project).Soil Investigations. | 24 holes. Soil investigations for new carriageway of National Highway including tests & report.360 metres of borings | NESPAK Ltd., Lahore. | NESPAK Ltd., Lahore. |
| 241 | AZAD KASHMIR - KOTLI. Water Supply Scheme. | and allied tests. Installation of 3 Tubewells. 463 feet of boring. | Chief Engineer PWD, Muzaffarabad (AK). | |
| | бирргу бенеше. | or coring. | Wazariarabad (Mix). | |
| | очру оснене. | 1986 | Muzanarabad (/MV). | |
| 242 | LEIAH AND PUNJAB SALT RANGES. Coal exploration . | | Punjab Mineral Development Corporation | |
| 242 | LEIAH AND PUNJAB SALT RANGES. | 1986 Core/non-core drilling for exploration of coal. 1,061 feet of core and | Punjab Mineral Development | Kalabagh Consultants. |
| | LEIAH AND PUNJAB SALT RANGES. Coal exploration . KALABAGH DAM PROJECT. Multipurpose 260 feet high proposed Dam | 1986 Core/non-core drilling for exploration of coal. 1,061 feet of core and 6,025 feet of non-core drilling. Off shore - Damsite investigations in the river channel involving 729 ft of percussion and 312 feet of rotary drilling, in-situ testing & collection | Punjab Mineral Development Corporation (PUNJMIN) Lahore. Chief Engineer Kalabagh Dam | |
| 243 | LEIAH AND PUNJAB SALT RANGES. Coal exploration . KALABAGH DAM PROJECT. Multipurpose 260 feet high proposed Dam on River Indus at Kalabagh. LAHORE. Additional drinking water | Core/non-core drilling for exploration of coal. 1,061 feet of core and 6,025 feet of non-core drilling. Off shore - Damsite investigations in the river channel involving 729 ft of percussion and 312 feet of rotary drilling, in-situ testing & collection of samples (Contract No. 114). Installation of 2 Tubewells (4 cusec capacity), with developing and testing to 7 cusec in Allama Iqbal Town. | Punjab Mineral Development Corporation (PUNJMIN) Lahore. Chief Engineer Kalabagh Dam Project, WAPDA. | |
| 243 | LEIAH AND PUNJAB SALT RANGES. Coal exploration . KALABAGH DAM PROJECT. Multipurpose 260 feet high proposed Dam on River Indus at Kalabagh. LAHORE. Additional drinking water supply. | Core/non-core drilling for exploration of coal. 1,061 feet of core and 6,025 feet of non-core drilling. Off shore - Damsite investigations in the river channel involving 729 ft of percussion and 312 feet of rotary drilling, in-situ testing & collection of samples (Contract No. 114). Installation of 2 Tubewells (4 cusec capacity), with developing and testing to 7 cusec in Allama Iqbal Town. 1,318 feet of boring. Installation of a tubewell at DHQ Hospital. 156 feet of boring. | Punjab Mineral Development Corporation (PUNJMIN) Lahore. Chief Engineer Kalabagh Dam Project, WAPDA. WASA (LDA), Lahore. Executive Engineer PWD, Building | |
| 243 244 245 | LEIAH AND PUNJAB SALT RANGES. Coal exploration . KALABAGH DAM PROJECT. Multipurpose 260 feet high proposed Dam on River Indus at Kalabagh. LAHORE. Additional drinking water supply. AZAD KASHMIR - KOTLI. Provision of drinking water for hospital. KALABAGH DAM PROJECT. | Core/non-core drilling for exploration of coal. 1,061 feet of core and 6,025 feet of non-core drilling. Off shore - Damsite investigations in the river channel involving 729 ft of percussion and 312 feet of rotary drilling, in-situ testing & collection of samples (Contract No. 114). Installation of 2 Tubewells (4 cusec capacity), with developing and testing to 7 cusec in Allama Iqbal Town. 1,318 feet of boring. Installation of a tubewell at DHQ Hospital. 156 feet of boring. | Punjab Mineral Development Corporation (PUNJMIN) Lahore. Chief Engineer Kalabagh Dam Project, WAPDA. WASA (LDA), Lahore. Executive Engineer PWD, Building Division,Kotli (AK). WAPDA & | Consultants. NESPAK Ltd., |

Description & Quantum

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Project Particulars

Consultants

Clients

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | | | |
| 248 | KANDKOT. Guddu Gas Pipeline Project. | Dewatering by well points of 2.5KM Section of trench during laying of pipeline. | WAPDA & Petrocon (Pvt) Ltd., Lahore. | |
| 249 | KANDKOT. Guddu Gas Pipeline Crossing of BS Feeder Canal. | Site investigations, & construction of 6 cast-in-situ bored piles and piers for pipeline crossing. | WAPDA & Petrocon (Pvt) Ltd., Lahore. | |
| 250 | LAHORE. Industrial Water Supply. | Installation of Tubewell at factory premises. | Pak Elektron Ltd., Lahore. | |
| 251 | QUETTA. Bolan Medical Complex Structural Concrete investigations. | Extraction of core samples from RCC in buildings and checking crushing strength. | Baluchistan PWD | NESPAK Ltd., Lahore. |
| 252 | JHIMPIR - KARACHI. Agricultural wells. | Installation of 4 Tubewells for the provision of water for Cattle Farms. | Agricultural Develop- ment Bank (ADBP), Karachi. | |
| 253 | ZIARGAI BALUCHISTAN. Ground Water Recharge Pilot Scheme, hydro- logical investigations. | Installation of 14 Piezometers with heavy percussion rigs in remote areas Collection of samples and testing. | B.M.I.A.D. Quetta. | |
| 254 | KARACHI. Defence Officers Housing Authority. Hydrological investigations. | Investigatory drilling to explore potential of drinking water in the area. | Defence Officers Housing Authority, Karachi. | |
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| | 1 | 1987 | | |
| | | 1987 | | |
| 255 | LAHORE. Water Supply. | 1987 Installation of Tubewell at State Life Building, Lytton Road. | State Life Insurance Corporation, Lahore. | |
| 255 256 | LAHORE. Water Supply. DERA GHAZI KHAN. PAEC Development Project Area. Mineral Exploration. | Installation of Tubewell at State Life | | |
| | DERA GHAZI KHAN. PAEC Development Project Area. Mineral | Installation of Tubewell at State Life Building, Lytton Road. Drilling through overburden in Nangar Nai Area, using odex | Corporation, Lahore. Pakistan Atomic Energy Commission, | |
| 256 | DERA GHAZI KHAN. PAEC Development Project Area. Mineral Exploration. KOT ADDU. WAPDA's proposed | Installation of Tubewell at State Life Building, Lytton Road. Drilling through overburden in Nangar Nai Area, using odex equipment. 12 'Dutch Cone' penetration tests to determine soil bearing properties. Installation of Tubewell and piezometers & execution of long duration pump out test to determine aquifer characteristics at project site for implementing dewatering during | Corporation, Lahore. Pakistan Atomic Energy Commission, D.G. Khan. Alsthorm. | |
| 256 257 | DERA GHAZI KHAN. PAEC Development Project Area. Mineral Exploration. KOT ADDU. WAPDA's proposed Thermal Power Station. CHASHMA BARRAGE. Proposed WAPDA Hydel Project on existing | Installation of Tubewell at State Life Building, Lytton Road. Drilling through overburden in Nangar Nai Area, using odex equipment. 12 'Dutch Cone' penetration tests to determine soil bearing properties. Installation of Tubewell and piezometers & execution of long duration pump out test to determine aquifer characteristics at project site for implementing dewatering during construction phase. Backfilling and uplift grouting of approx. 8000 square feet of floor of | Corporation, Lahore. Pakistan Atomic Energy Commission, D.G. Khan. Alsthorm. (France). H.E.P., WAPDA | |
| 256 257 258 | DERA GHAZI KHAN. PAEC Development Project Area. Mineral Exploration. KOT ADDU. WAPDA's proposed Thermal Power Station. CHASHMA BARRAGE. Proposed WAPDA Hydel Project on existing barrage. LAHORE. Under pinning floors at Pearl Continental Hotel. HATTAR. (District Abbottabad). Structural repairs of factory structures | Installation of Tubewell at State Life Building, Lytton Road. Drilling through overburden in Nangar Nai Area, using odex equipment. 12 'Dutch Cone' penetration tests to determine soil bearing properties. Installation of Tubewell and piezometers & execution of long duration pump out test to determine aquifer characteristics at project site for implementing dewatering during construction phase. Backfilling and uplift grouting of approx. 8000 square feet of floor of hotel lobby and lounge areas. Chipping, cleaning and repair of internal and external surfaces of | Corporation, Lahore. Pakistan Atomic Energy Commission, D.G. Khan. Alsthorm. (France). H.E.P., WAPDA Lahore. Pearl Continental Hotel, Lahore. Mustehkum Cement Limited. | |
| 256257258259 | DERA GHAZI KHAN. PAEC Development Project Area. Mineral Exploration. KOT ADDU. WAPDA's proposed Thermal Power Station. CHASHMA BARRAGE. Proposed WAPDA Hydel Project on existing barrage. LAHORE. Under pinning floors at Pearl Continental Hotel. HATTAR. (District Abbottabad). | Installation of Tubewell at State Life Building, Lytton Road. Drilling through overburden in Nangar Nai Area, using odex equipment. 12 'Dutch Cone' penetration tests to determine soil bearing properties. Installation of Tubewell and piezometers & execution of long duration pump out test to determine aquifer characteristics at project site for implementing dewatering during construction phase. Backfilling and uplift grouting of approx. 8000 square feet of floor of hotel lobby and lounge areas. Chipping, cleaning and repair of | Corporation, Lahore. Pakistan Atomic Energy Commission, D.G. Khan. Alsthorm. (France). H.E.P., WAPDA Lahore. Pearl Continental Hotel, Lahore. Mustehkum Cement | |

| No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | <u> </u> | | | |
| 263 | MUZAFFARGARH. WAPDA Thermal Power Station Project. | Geotechnical investigations to determine the engineering characteristics of specified locations, including 31 Dutch Cone Penetration Tests for determining penetration resistance of soil. | WAPDA & NESPAK Ltd., Lahore. | NESPAK Ltd., Lahore. |
| 264 | TRIBAL AGENCIES OF N.W.F.P. Water Supply Schemes in remote tribal areas. | Installation of 37 Tubewells in South Waziristan Agency. Over 14,000 ft. of Heavy percussion borings. | FATA Development Corporation, Peshawar. | |
| 265 | MUZAFFARGARH. WAPDA Thermal Power Station Project. | Performance of 5 Plate Load Tests within the Project Area of Power Station. | WAPDA & NESPAK Ltd., Lahore. | NESPAK Ltd., Lahore. |
| 266 | LAHORE 132 KV T/LINE. Kalashah | Construction of 48 in. dia Cast-in-in River Ravi. | Project Director Lahore. | |
| | | 1988 | | |
| 267 | LAHORE: Conversion of Lahore Hotel into Plaza. | Complete Subsoil Investigations for proposed Farooq Centre. | Farooq Centre, (Pvt) Ltd., Lahore. | Habib Fida Ali Karachi. |
| 268 | LAKHRA - USAID Drilling Programme for Mineral exploration - Coal. | Core and non-core drilling for Coal in desert areas of Lakhra (Sind). 12,000 Metres of drilling. | USAID, Islamabad. | US Geological Survey. |
| 269 | SANGJANI. FECTO Cement Factory, Water Supply. | Installation of 3 Tubewells for provision of Additional water for the Cement Factory. | FECTO Cement, Limited. | |
| 270 | BALUCHISTAN. Burj Aziz Khan Dam Site. | Geotechnical Investigation at Burj Aziz Khan Dam Site. Complete range of tests. | SE, (Irrigation Division) Quetta. | NESPAK Ltd., Lahore. |
| 271 | KOT ADDU. WAPDA Thermal Power Station. Dutch Cone tests. | Execution of 6 Cone Penetration Tests to ascertain penetration resistance value and friction at intervals of 10 in (25 cm). | J.G.C. Corporation (Japan). | |
| 272 | PUNJAB SALT RANGES. Mineral exploration. | Core drilling for exploration of Sodium chloride (Salt) in Sargodha, Khushab and Chakwal districts. Approx. 7,364 feet of core drilling. | Punjab Mineral Development Corporation (PUNJMIN) Lahore. | |
| 273 | LAHORE. Residential Water Supply. | Installation of Tubewell for water supply at 12 Main Gulberg. | Koh-i-Noor Textile Mills, Lahore. | |
| 274 | ISLAMABAD. Air Headquarters Complex water supply. | Installation of 2 Tubewells for Provision of water for Golf Course. | MES (Air), Islamabad. | |
| 275 | LAHORE AIRPORT. New runway for Jumbo jets. | Core Drilling in RCC for installation of runway lighting. | CAA & Siemens(Pak) Limited, Karachi. | |
| 276 | ISLAMABAD.New Naval Headquarters Complex. | Installation of a Tubewell for Swimming Pool . | DW & CE (Navy) Islamabad. | |
| 277 | BALUCHISTAN - QUETTA AREA Water Supply Scheme. | Installation of 15 Tubewells for water supply & agriculture. 6,700 ft. of Drilling ranging from 300-700 ft. | PHED & Irrigation & Power Deptts. (Govt. of Baluchistan). | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | | | |
| 278 | BALUCHISTAN. Rural water supply for private farmers in remote areas. | Installation of 20 Tubewells for Irrigation purposes in Quetta, Kalat and Pishin districts. 8,500 feet of percussion/ rotary drilling ranging from 300-700 ft. | Private Farmers of Baluchistan. | |
| 279 | DUHOK DAM, IRAQ. Multi Million Dollars Dam and Irrigations Project in Northern IRAQ. | Anchorbolts and reinforced shotcreting in Tunnels (Approx. 36,000 sq. metres) and drilling and fixing 8,000 anchor bolts. | Ministry of Irrigation, Govt. of Iraq & Engineering Services Intl. Dubai (UAE). | Agrocomplet Bulgaria. |
| | | 1989 | | |
| 280 | ISLAMABAD. Development work on Lehtrar Road. | Soil Investigations and collection of soil samples. | Konoike Construction Co. (Japan). | |
| 281 | CHASHMA. Proposed Hydroelectric Power Project on existing barrage. | Drilling of Investigatory Bore-holes and collection of Soil samples for pre-tender evaluation. | Broek Hoven Co. (Holland.) | |
| 282 | PUNINAD HEAD WORKS. Extension of Head regulator. | Sheet Piling at Abbasia Link Canal Head Regulator for foundations. | WAPDA and MCP Islamabad. | |
| 283 | KHEWRA. ICI Sodha Ash Factory water supply. | Installation of a Tubewell for additional water to the factory. | ICI & DESCON Engineering, Lahore. | |
| 284 | JINNAH BARRAGE. Proposed Hydro Power Station on existing barrage. | Comprehensive pumping out test & geohydrological investigations to establish dewatering criteria. | Binnie & Partners Lahore. | Binnie & Partners Lahore. |
| 285 | GOMAL ZAM. Proposed Multipurpose Dam on river Gomal in NWFP. | Comprehensive Geotechnical Investigations for damsite. Work involved making adits in cliffs of steep gorge, excavation of chamber, drilling and check grouting and excavation of 32 x 2 meter dia. shaft. | WAPDA. | Coyneet Bellier (France) |
| 286 | TARBELA DAM. Hydropower Station 3rd Extension Project. Drilling and Grouting. | Drilling &grouting for Solidification of Coffer Dam Cells 1, 2 & 3 and drilling for Rock Anchors. Extensive DTH and odex drilling. 22,450 ft of drilling and grouting. | WAPDA & Hyundai-Hidco(H.H) Joint Venture. South Korea. | NESPAK Ltd., Lahore. |
| 287 | TARBELA DAM. Hydropower Station 3rd Extension Project. Tunnel re-alignment/modification of tunnel No. 4. | Demolition of re-inforced concrete by controlled blasting and special breakers. Vibration monitoring. Total 4,200 cu.meters of RCC demolition. Extraction of sheet piles. | WAPDA & Hyundai- Hidco(H.H) Joint Venture. South Korea. | NESPAK Ltd., Lahore. |
| 288 | PROBYNABAD (Distt. OKARA). Agriculture water supply. | Installation of a tubewell for Army Stud Farm. 300 feet of boring. | Manager, Army Stud Farm, Probynabad. | |
| 289 | LAHORE. Yuhannabad, Ferozepur Road. | Tubewell for proposed colony and soil investigations for public building. | Dr. P. Born, 12FCC, Gulberg, Lahore. | |
| 290 | GILGIT AND SKARDU AREA. Investigations for bridges over Indus river. | Geotechnical investigations for 7 bridges in difficult terrains. 355 m of percussive drilling, tests and report. Some work in snow cover. | NORTHERN AREA PWD. | Ass. Consulting Engineers, (ACE) Lahore. & NESPAK. Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | | | |
| 291 | MANDI BAHAUDDIN. Water Supply. | Installation of a Tubewell in factory area. 300 feet of boring. | Shahtaj Sugar Mills Lahore. | |
| 292 | AZAD KASHMIR-KOTLI. Water Supply. | Installation of 2 Tubewells at University of Business Administration and Industrial Area. 286 ft of boring. | SE, PWD, Building Circle, Mirpur (AK). | |
| 293 | BALUCHISTAN AREA. Water supply at MT schools in Quetta and Khuzdar. | Turnkey Installation of 2 Tubewells. 300 mtrs of tubewell boring. | USAID, Islamabad. | Engg. Consultants Karachi |
| 294 | AKORA KHATTAK. Water supply | Installation of a Tubewell in Factory Area. 300 ft. of tubewell boring. | Pak Tobacco Co Ltd, Akora Khattak. | |
| 295 | BALUCHISTAN AREA. Agricultural wells in remote areas for private farmers. | Installation of 55 Tubewells for Irrigation in Quetta, Kalat and Pishin districts. Over 25,000 feet drilling ranging from 300 - 700 feet. | Private Farmers of Baluchistan. | |
| | | 1990 | | |
| 296 | LAHORE. Convent of Jesus and Mary School. | Turnkey installation of Tubewell. 300 ft of tubewell boring. | Principal, Convent of Jesus & Mary, Lahore. | |
| 297 | QUETTA - Lakpass Tunnel Project. | Investigations for tunnel. Drilling and testing. 75 m drilling and tests. | Korea Consultants Intl. (S. Korea) | Korea Consultants Intl. (S. Korea) |
| 298 | SKARDU - Northern Areas. Soil investigations. | Investigations for proposed stadium & gymnasium. 210 ft of boring & tests. | Northern Area PWD. | Republic Engg. Corporation Ltd. |
| 299 | TAUNSA BARRAGE. Hydro Electric Project | Large Pump Out Tests with 10 piezo- meters. 300 m of drilling and tests. Installation of wells & logging of test. | Sogex Intl. Ltd., (Canada) | Sogex Intl. Ltd., (Canada) |
| 300 | LAHORE. Domestic water supply. | Turnkey installation of tubewell with submersible pump at 18-G Gulberg 3. 293 ft of borings. | Chairman IVCCEngg. (Pvt) Ltd. Lahore. | |
| 301 | MANGLA DAM. Hydro Power Extension Project Units 9 & 10. RCC Demolition. | Breaking of Concrete Plug at Mangla Power House tunnel No. 5. 282.5 cu yds of RCC demolition. | WAPDA & Frontier Works Organization(FWO). | NESPAK Ltd., Lahore. |
| 302 | MANGLA DAM. Hydro Power Extension Project Units 9 & 10. | Double Sheet pile wall of coffer dam and mass tremmie concreting for power house extension using floating platforms. Work included underwater cutting of concrete and socketting of double sheet pile walls. Extensive heavy structural steel fabrication. | WAPDA & Frontier Works Organization(FWO). | NESPAK Ltd., Lahore. |
| 303 | PROBYNABAD (OKARA). Agriculture water supply. | Installation of tubewell for Army Stud Farm. 300 feet of boring. | Manager, Army Stud Farm, Probynabad. | |
| 304 | MANGLA DAM. Hydro Power Extension Project Units 9 & 10. | Drilling and installation of rock bolts and guniting to stabilise slope in power house area. 750 rock bolts. | WAPDA & Frontier Works Organization(FWO). | NESPAK Ltd., Lahore. |
| 305 | QUETTA. Water supply for Cantt. area. | Turnkey istallation of 4 Tubewells in Cantt area.1779 ft of drilling and allied pumping works. | CMES (Army) Quetta Cantt. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | | | |
| 306 | QUETTA. Water supply for city. | Turnkey installation of 2 Tubewells in suburbs of city. 800 ft. of drilling | Municipal Corporation, QUETTA | |
| 307 | GHAZI GHAT. 500 KV Transmission line towers. Offshore pile foundations on the Indus River. | 12 nos. Cast in Situ, 48 in dia RCC piles in the river, working on large floating platforms in mid stream. Difficult logistics. 480 m. of piling and construction of RCC Superstructure. | Gen. Manager T&G, WAPDA | NESPAK Ltd., Lahore. |
| 308 | MANGLA. Transmission line towers damaged by storm. Emergency piling for new towers. | Bored cast-in-situ 24 in dia RCC piles and super structures. Drilling in gravels and boulders. 288 m. of piling and RCC Superstructure. | Gen. Manager T&G, WAPDA | |
| 309 | PAKISTAN STEEL - PIPRI KARACHI. A multi-billion rupees project for manufacture of steel. | 2 in. thick Gunite lining of chimney for Unit No. 5, of Pipri power house. 800 square metres of Guniting in difficult conditions & at great heights. | Marubeni Corp. (Japan) KESCO. | |
| 310 | TARBELA DAM. Hydropower Extension Project (Units 11-14) (Contract C-23) | Drilling of Grout holes at Dall Darra Weir PH-2 and Batch mix & injection of Bentonite for cutt off. | WAPDA/Hyundai Hidco (H.H.) J.V. South Korea. | NESPAK Ltd., Lahore |
| | | 1991 | | |
| 311 | MANGLA DAM. Hydroelectric Power Station Extension Project Units 9&10. | Grouting of Sealing Ring, conception, development of technique and execution of grouting to establish a permanent Sealing Ring between concrete joints in one of the main power tunnels and Backfill grouting. | WAPDA/SKODA Export (CZECH). | |
| 312 | LAHORE. American Society School. | Cutting of Core Samples from 6 columns of Multipurpose Hall of School. | Lahore American Society. | |
| 313 | MANGLA DAM. Hydroelectric Power | Installation of Double Sheet Pile | WAPDA/FWO. | |
| | Station Extension Project Units 9&10. | Wall alongwith under water tremmie concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements of Sheet Pile Walls to Baffle Walls. | WALDAT WO. | |
| 314 | Station Extension Project Units 9&10. LAHORE-AIRPORT. New Runway for Jumbo Jets. | concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements | CAA Karachi | NESPAK Ltd., Lahore. |
| 314 315 | LAHORE-AIRPORT. New Runway for | concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements of Sheet Pile Walls to Baffle Walls. Extraction of Cores from concrete | | |
| | LAHORE-AIRPORT. New Runway for Jumbo Jets. | concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements of Sheet Pile Walls to Baffle Walls. Extraction of Cores from concrete Runway. Drilling and Installation of tubewell for provision of additional water | CAA Karachi Rafhan Maize | |
| | LAHORE-AIRPORT. New Runway for Jumbo Jets. | concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements of Sheet Pile Walls to Baffle Walls. Extraction of Cores from concrete Runway. Drilling and Installation of tubewell for provision of additional water supply for maize production factory. | CAA Karachi Rafhan Maize | |
| 315 | LAHORE-AIRPORT. New Runway for Jumbo Jets. BHAI PHERU (Lahore). | concreting, fabrication & installation of internal & external bracings and provision of anchorage arrangements of Sheet Pile Walls to Baffle Walls. Extraction of Cores from concrete Runway. Drilling and Installation of tubewell for provision of additional water supply for maize production factory. 1992 Drilling and installation of tubewell | CAA Karachi Rafhan Maize Products Co. Ltd. Pak Elektron Ltd., | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 318 | JAUHARABAD-KHUSHAB. Grouting under Vesell plates in PAEC Building. | Drilling & Grouting of approx 250 holes in 40MM Steel Vessel Plates. | PAEC/NCL. | NESPAK Ltd., Lahore |
| 319 | KALLAR KAHAR (Chakwal). Core drilling along Pakistan Motorway (Lahore-Islamabad) Project. | Core drilling in Salt Range Area to establish Rock Profile. Drilling of 15 boreholes through overburden and rock. (Total drilling 313 Meters). | Daewoo Corporation South Korea. | |
| | | 1993 | | |
| 320 | GHAZI GHAT - 500 KV T/LINE TOWER GUDDU-MULTAN. Offshore Pile Foundations in River Indus. | 12 Nos. Cast-in-situ, 48 in dia RCC Piles in the river under flowing water conditions working on large floating platforms in the mid stream. 480 m of Piling and Construction of RCC Superstructures (2 mtrs & 2.2 mtrs). | WAPDA/ICC(Pvt) Ltd., Lahore. | NESPAK Ltd., Lahore. |
| 321 | PAKISTAN (LAHORE-ISLAMABAD) Motorway Project, Section III Bhera - Chakwal Sector. | 116 Nos. Cast-in-Situ, 1.0 M dia RCC Piles. 2,733 M of Piling in this sector. | Daewoo Corporation South Korea/ National Highway Authority (NHA). | SMEC. |
| 322 | PAKISTAN (LAHORE-ISLAMABAD) Motorway Project, Section IV Chakwal-Chakri-Rawalpindi Sector. | 84 Nos. Cast-in-situ, 2.0 M dia. RCC Piles in River Soan and Paneand using vibrator for driving of casing and Auger drilling. 2386 M of Piling. 482 Nos. Cast-in-Situ, 1.0 M dia RCC Pile in rocky terrain. 7988 M of Piling in this sector. | Daewoo Corporation South Korea/ National Highway Authority (NHA). | SMEC. |
| 323 | RABWAH (Chiniot) . Drilling in Quarry Site Area of Pakistan Motorway Project. | Drilling of approx 50,000 Meters in the Quarry Area and preparations of drilled holes for blasting. | Daewoo Corporation South Korea. | SMEC. |
| | | 1994 | | |
| 324 | KHEWRA - ICI Soda Ash Factory Water Supply. | Drilling and Installation of 2 Tubewells for additional water supply to the factory. | ICI & Descon Engineering (Pvt) Ltd Lahore. | |
| 325 | PAKISTAN (LAHORE-ISLAMABAD) Motorway Project - Section II, River Jhelum Bridge at Bhera. | 76 Nos. Cast-in-situ, 2.0/2.2 M dia Pile. 4533 M of Piling in the river by diverting the river flow. | Daewoo Corporation South Korea/ National Highway Authority (NHA). | SMEC. |
| 326 | MIANWALI: Chashma Hydropower Project. A Joint Venture with Bachy/Soletanche of France. | Pump out Test. Installation of 4 Tuberwells and 35 Piezometers for Pump Out Test. | Hyundai-Hidco-Hakas Joint Venture/ WAPDA. | Chashma Group of Consultants Lahore. |
| | | 1995 | | |
| 327 | QADIRPUR GAS Development Pipeline (Phase I) Project for Indus River Crossing. | Piling and allied works for Road and Gas Pipeline bridge. 24 piles 1.4 M dia. Total meterage 904. | Filippo Fochi Energia, S.r.l. Fochi Group, Italy/ OGDC Islamabad. | |
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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 328 | MIANWALI: Chashma Hydropower Project. A Joint Venture with Bachy/Soletanche of France. | Design and Installation of 130 Tube- wells for Dewatering System with Pumping capacity of 14 cubic meter/ sec for lowering of water table upto 25/30 meters depth in an alluvium soil of Indus River. This involved installation of Global Discharge System, Flowmeters and Non-return | Hyundai-Hidco-Hakas Joint Venture/ WAPDA. | Chashma Group of Consultants Lahore. |
| 329 | MIANWALI: Chashma Hydropower Project. A Joint Venture with Bachy/Soletanche of France. | Plastic Concrete Diaphragm wall 0.8 meter thick. Total quantity 26,000 sq. meters and construction of Guide wall approximately 400 | Hyundai-Hidco-Hakas Joint Venture/ WAPDA. | Chashma Group of Consultants Lahore. |
| | | cubic meters of RCC. | | |
| 330 | MIANWALI: Chashma Hydropower Project. A Joint Venture with Bachy/Soletanche of France. | Vibro-Compaction involving 120,000 Liner Meter length alongwith tests involving Cone Penetration Test (CPT) and (SPT). | Hyundai-Hidco-Hakas Joint Venture/ WAPDA. | Chashma Group of Consultants Lahore. |
| | | 1996 | | |
| 331 | QADIRPUR: Qadirpur Gas Field Project. Recovery of Well No. O4. | Construction of Earth Embankment. Installation of 10 Tubewells for lowering of water table upto 10 M in Indus River bed. Driving of 1,600 sq.meters. of sheet piles (225 tons). Excavation upto 12.0 meters within the sheet piled cofferdam for recovery of well head. | ALERT Disaster Control (Asia) Pte Ltd. Singapore/OGDC. | |
| 332 | FAROOQABAD: PARCO-MFM Pipeline Extension Project. | Driving of prefabricated tubular steel piles. 16 Nos. 8 inch diameter piles | Willbros-Techno J.V. Lahore/PARCO. | |
| | | and 8 Nos. 6 inch diameter piles (total depth 275 meters) driven under flowing water conditions at the Qadirabad-Balloki Link Canal and Upper Gogera Canal respectively. 40 meters of 8 inch diameter piles driven at dry crossings. | | |
| | | (total depth 275 meters) driven under flowing water conditions at the Qadirabad-Balloki Link Canal and Upper Gogera Canal respectively. 40 meters of 8 inch diameter piles | | |
| 333 | GAHAZI-BAROTHA: Ghazi Barotha Hydropower Project. Exploratory Drilling. | (total depth 275 meters) driven under flowing water conditions at the Qadirabad-Balloki Link Canal and Upper Gogera Canal respectively. 40 meters of 8 inch diameter piles driven at dry crossings. | Ghazi Barotha Contractors/WAPDA | Pakistan Hydro Consultants. |
| 333 | GAHAZI-BAROTHA: Ghazi Barotha Hydropower Project. Exploratory | (total depth 275 meters) driven under flowing water conditions at the Qadirabad-Balloki Link Canal and Upper Gogera Canal respectively. 40 meters of 8 inch diameter piles driven at dry crossings. 1997 Drilling of 14 holes between RD 4+475 toRD 42+700 to delineate the bed rock profile and determine the water table along the Power Channel. Approx. 324 Meters by | - | • |

| 335 | DERA MURAD JAMALI (Baluchitan): UCH Power Plant Project. Gas Turbine Foundations(3 Nos.) and Steam Turbine Foundation (1 No) | Construction of 194 Piles of 560mm dia and 25 meters depth each and 93 piles of 460 mm dia and 14 meters depth each. Carrying out 2 Nos. Load Test with reaction piles. | Harbin Power Engg. Co. Ltd. of China/ UCH Power Ltd. | Raytheon Engineers & Constructors. |
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| 336 | DERA MURAD JAMALI (Baluchitan): UCH Power Plant Project. Transformer and Duct Support (PASE-II). | Construction of 196 Piles of 560mm and 25 meters depth each and 157 piles of 460 mm dia and 14 meters depth each. | Harbin Power Engg. Co. Ltd. of China/ UCH Power Ltd. | Raytheon Engineers & Constructors. |
| 337 | PEZU (D.I.Khan):Lucky Cement Plant Cooler Building. | Remedial measures work inside Cooler Building involving 19 Piles of 700 mm dia and 20 piles of 650 mm dia, grouting of 900 holes with steel rebar and over 1,500 cubic meters of concrete in beams etc. | Lucky Cement Ltd. Islamabad. | NESPAK Ltd., Lahore. |
| 338 | LAHORE: 63A-Main Boulevard Gulberg. Soil Investigation. | Site Survey and Soil Investigations for design of building. Carrying out SPT's and collection of disturbed soil samples. Production of reports on Site Survey & Soil Investigation. | GAM Corpn.(Pvt) Ltd. A McDonald's J.V. Co. Karachi. | |
| 339 | MUZAFFARGARH: Thermal Power Station Extension . Water Supply. | Drilling and Installation of 10 Tubewells for water supply to Unit No.4. Construction of Pump Houses, internal electrification and allied works. 900 meters of drilling. | China National Machinery & Eqpt. Imp. & Exp. Corp. of China/WAPDA. | Muzaffargarh Thermal Power Consultants Lahore. |
| 340 | DERA MURAD JAMALI (Baluchitan): UCH Power Plant Project. Boundary Wall. | Construction of brick Boundary Wall 3152 meters in length and 2.4 meters high. This involved drilling of 849 small diameter piles along- with approx.1500 cubic meters of concreting. | Harbin Power Engg. Co. Ltd. of China/ UCH Power Ltd. | Raytheon Engineers & Constructors. |
| 341 | DERA MURAD JAMALI (Baluchitan): UCH Power Plant Project.Construction of Raw Water Intake Pump House. | Construction of 150 square meters RCC structure which was approximately 15 meters high. Involved excavation works and 2500 cubic meters of concretintg of complicated pump chambers and other internal structures. | Harbin Power Engg. Co. Ltd. of China/ UCH Power Ltd. | Raytheon Engineers & Constructors. |
| 342 | MIAN MIR DRAIN BRIDGE LAHORE: Remedial Works at Lahore Bypass Project. | Remedial measuring/repairing of existing Mian Mir Drain Bridge. Supply and installation of steel beams, angle irons, bolts and nuts for the supporting of girders. Drilling and breaking the existing concrete making cofferdams and any incidental work. | Sezai Turkes-Fezi Akkaya Construction Company of Turkey/ National Highway Authority (NHA). | Republic Engg. Corporation Ltd. (REC), Lahore. |
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Description & Quantum of Works

Clients

Consultants

Ser No. Project Particulars

| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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| No. | • | of Works | | |

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| | | 1998 | | |
| 343 | THIRD JAMSHORO-GUDDU 500 KV T/LINE (KOT MITHAN-CHACHRAN): Bed of the Indus River near Rajanpur. Civil Works and Pile Foundation. | Installation of approximately 1600 meters of large diameter off shore piling in the Indus River, in addition to over 7,000 meters of piles on dry land. Civil works for pile caps, chimneys and beams for the foundation structures. | Potential Engineers (Pvt) Ltd., Lahore/ WAPDA. | NESPAK Ltd., Lahore. |
| 344 | BELA TOWN (BALUCHISTAN) (N-25) BRIDGE ON PORALI RIVER: Main Karachi-Quetta Road. Piling and Grouting Works. | Construction of 31 piles of 710mm dia. upto the max depth of 30 meters each. Drilling of 22 External Grout holes and Piezometers of 15 meters each. (Total 307 M depth). Drilling of 8 Internal Grout holes of 28 to 30 meters each holes. Batch, Mix and Inject grout 125,000 Kilograms. Carrying out core drilling work in the piles. Carrying out of Pile Integrity Testing for 35 Nos. Piles. | Sadullah Khan & Brothers (SKB) Karachi / National Highway Authority (NHA). | Sampak International (Pvt) Ltd., (Muhammad Iqbal Haq Associates). |
| 345 | GHAZI BAROTHA: Ghazi Barotha Hydropower Project. Dewatering/ Drainage Relief Wells at Undersluices Area. | Drilling and Installation of 54 Dewatering Drainage Wells. The max diameters of the holes 725mm dia. Carrying out the holes 8.20 meters to 9 meters depth. Total drilling 485 meters in boulders and gravels. Carrying out permeability tests. | Societa Generale Fondazioni (SGF) of Italy/GBC/Messrs Cobstoe Ltd., of U.K. / WAPDA. | Pakistan Hydro Consultants. |
| | | 1999 | | |
| 346 | GHAZI BAROTHA: Ghazi Barotha Hydropower Project. Temporary Dewatering Wells at Standard Bay. Barrage Area. | Drilling and Installation of 89 temporary Dewatering Wells. The diameters of the holes 725 mm dia. Carrying out the holes 8.20 meters to 28 meters drilling depth. Total drilling 1657 meters in boulders and gravels. Carrying out permeability tests. | Ghazi Barotha Contractors/ Messrs Cobstone Ltd. of U.K./WAPDA. | Pakistan Hydro Consultants. |
| 347 | GHAZI BAROTHA: Ghazi Barotha Hydropower Project. Water wells at RD 52 along the Power Channel. | Drilling and Installation of 2 Tubewells of 725/680 mm dia. at 52 KM of left bank of Power channel. The drilling depth of Tw No. 1 & 2 was 53/86 meters respectively. Drilling and Installation of one tubewell at 7 KM and one at 12 KM Power channel with 50 meters depth of each hole. | Ghazi Barotha Contractors/ Messrs Cobstone Ltd. of U.K. / WAPDA. | Pakistan Hydro Consultants. |
| 348 | KULACHI (D.I.Khan): Drinking Water Supply and Sanitation Measures in N.W.F.P., Phase III. | Drilling of a pilot hole and one tubewell of 296 meters each. Drilling carried out in hard silty clay & sand. Carried out development & testing of well with airlift compressor and submersible pump. Water capacity over 80,000 litres per hour. | Celler Brunnenbau GmbH of Germany/ P.H.E.D. | Dorsch Consult Munic and K.f.W. |

| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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| | | 2000 | | |
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| 349 | PAKISTAN (ISLAMABAD-PESHAWAR) Motorway Project - Section M-1, for Bridge Over Indus River. Geotechnical Investigations. (Exploratory Drilling) | Geotechnical Investigations (exploratory/confirmatory boring) for bridge over Indus River. Drilling of 8 holes of 725 mm dia. upto the depth of 50 meters each. Drilling carried out with percussion rigs in difficult strata was encountered Total Drilling: 400 meters. | Bayindir Construction Tourism Trade and Industry Inc. of Turkey/ National Highway Authority (NHA). | Pakistan Motorway Consultants. |
| 350 | PAKISTAN (ISLAMABAD-PESHAWAR) Motorway Project - Section M-1, for Badri Khwar Nullah. Geotechnical Investigations. (Exploratory Drilling). | Geotechnical Investigations (exploratory/confirmatory boring) for left and right banks of Badri Khwar Nullah. Drilling of 2 holes of 681 mm dia. Depth of holes No. 10 & 11 was 25/30 meters respectively. Drilling carried out with percussion rigs in difficult strata was encountered. | Bayindir Construction Tourism Trade and Industry Inc. of Turkey/ National Highway Authority (NHA). | Pakistan Motorway Consultants. |
| 351 | ISKANDERABAD (DAUDKHEL) District: Mianwali. Pak-American Fertilizer Limited Cooling Tower Remedial Works. | Repairs and remedial measures of cooling tower at PAFL involved water proofing of water tank of 7.43 million litres capacity by special treatment of Asphalt coating and Asphalt membrane with top layer of reinforced concrete 11,000 cu.ft without construction joint. New concrete achored with old one by anchor bolts. | Pak-American Fertilizers Ltd., Iskanderabad (Daud Khel), District : Mianwali | Pakistan Engg. Services (Pvt) Ltd. Lahore. |
| | | 2001 | | |
| 352 | ZAMZAMA GAS FIELD EWT PROJECT Near Dadu (Sindh). Remedial Works for Water Well. | Carry out the remedial works of well including re-Development of well & remove the gravel pack upto 260' installation of 4 Nos. 1" dia pipes upto 260 ft with bottom 50' perforated and refill annulus with gravel pack from 260 ft to 200 ft. Dewatering of well seepage for 288 hours. | BHP Petroleum Pty Ltd., of Australia. | Hatch Associates Proprietary Ltd., of Australia. |
| 353 | BHIT GAS FIELD DEVELOPMENT PROJECT (Phase-I): Kithar Region (Sindh). Geotechnical Site | Geotechnical Site Investigations for the Pipelines and Plant Areas. Carry out 7 holes through overburden | LASMO Oil Pakistan Ltd. Karachi / NESPAK Ltd., Lahore. | NESPAK Ltd., Lahore. |
| | Investigations. | and 6 holes of core drilling. Total drilling 60.4M & 43.6 M respectively. Carrying out 4 Plate Load Tests, SPT's, Collection of Water Samples, Undisturbed Samples and Excavation of Test Pits. | Lanoie. | |

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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 354 | CHASHMA RIGHT BANK CANAL Indus Highway Project Phase-II (N-55) (Contract -10A) Construction of 4 Bridges Over C.R.B.C. in District: D.I.Khan. | Construction of 4 Bridges i.e.Khad Warkai Bridge, Sherana Bridge, Ramak Bridge and Jai Haibat Bridge Over Chashma Right Bank Canal (CRBC) with approach on either side of bridges approximately 500 meters each side. Drilling of 4 Test piles, 12 Reaction piles and 115 working piles with 1100/ 750mm diameters. Total Drilling 3473 meters. Superstructure consisting of RCC columns,PC girders(60 Nos), wing walls and deck slabs. Asphalt | Hyundai Engineering and Construction Co. Ltd., of South Korea/National Highway Authority (NHA) Islamabad. | Pacific Consultants International (PCI) Islamabad. In Joint Venture with NIPPON KOEI. |
| | | 10,000 tons & Drainage & Erosion works. Total concrete 8,000 cubic meters and 700 tons of steel. | | |
| 355 | KOT LAKHPAT INDUSTRIAL AREA (LAHORE): Water Supply for Treet Corporation Factory. Well No. 2. | Drilling & installation of one cusec capacity tubewell of 450 mm dia. Drilling depth 400 feet. Carry out drilling with reverse rotary rig. Development and testing of well with turbine pump, air compressor and D&T unit. | Treet Corporation (Pvt) Ltd., Lahore. | |
| | | 2002 | | |
| 356 | DEFENCE HOUSING AUTHORITY (LAHORE CANTT): Repairing of Water Tanks in Sector X & Z Blocks. | Repair of columns and beams by chipping off spalled concrete, preparation of areas, cleaning of steel rust, replacement of steel. Carry out 1085 square feet guniting to repairs the water tanks. | Defence Housing Authority Lahore Cantt. | |
| 357 | DEFENCE HOUSING AUTHORITY (LAHORE CANTT): Water Prooring of Overhead Water Tank in X Block. | Cleaning of seepage areas outside of the water tank. Apply cementitious capillary water proofing material suitable for use in drinking water. Empty water tank & dry completely by using heaters. Total water proofing area 761 square feet. | Defence Housing Authority Lahore Cantt. | |
| | | proofing area 701 square reet. | | |
| 358 | RABWAH (District Jhang):Domestic Water Supply for Bait-ul-Qamar. | Drilling & installation of 1.35 cusec capacity tubewell of 450 mm dia. Drilling depth 218 feet. Carry out drilling with reverse rotary rig. Development and testing of well with turbine pump, air compressor and D&T Unit. | Bait-ul-Qamar Rabwah District: Jhang. | |
| 358 359 | | capacity tubewell of 450 mm dia. Drilling depth 218 feet. Carry out drilling with reverse rotary rig. Development and testing of well with turbine pump, air compressor | - | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 361 | SAWAN GAS FIELD DEVELOPMENT PROJECT: Drilling of Raw Water Supply (Subcontract No. SC-040). | Drilling & Installation of 4 Water Wells of 4 cusec capacity Borehole dia. (450 mm diameter). Total drilling 573 ft. Development and testing of wells with turbine pump, air compressor and D & T units. Water sample testing and flow rate testing using flow meters. Civil works for installation of security fencing for all 4 wells. | Clough Engineering Ltd. of Australia/OMV (Pakistan) Exploration GmbH, Australia. | |
| 362 | KAMALIA (District: Toba Tek Singh) Drilling of Holes in Concrete Foundation of Sugar Mills House. | Drilling of 258 bore holes of 100 mm dia. In RCC/PCC upto a depth of 1 ft. Drilling of 23 boreholes for foundation of high speed gear boxes of 100 mm dia. in RCC/PCC upto a depth of 3 ft. | Kamalia Sugar Mills Ltd. Kamalia. | |
| | | 2003 | | |
| 363 | GOMAL ZAM: Proposed Multipurpose Dam on River Gomal in N.W.F.P. Geotechnical/Site Investigation. | Site Investigations for dam site. Work involved coring in rock, excavation of adits & shaft, carrying out packer tests (water pressure tests), various core/rock tests. Core/Rotary drilling 555 meters upto a depths of 150 meters. Percussion drilling 35 meters, adits excavation 194 m, drilling for Pits in dam area 23 m. Drilling/coring was also carried out in river channel. | Investigation Department, Tianjin Investigation, Design and Research Institute of Water Resources and Hydropower, Ministry of Water Resources, P.R. China (IDTIDI)/WAPDA. | |
| 364 | FAQIR PLAZA: 6-Chatterjee Road, New Urdu Bazar, Lahore. Piling Work. | Construction of 105 piles of 600mm dia. upto the max depth of 59 ft. Total drilling carried out 5934 ft. Carrying out fabrication and installation of steel reinforcement. | Messrs Kingcrete Builders (Pvt) Limited, Lahore. | Axons Associates Architects&Engineers Lahore. |
| 365 | PARK LANE TOWERS: 72 Tufail Road, Lahore Cantt. Piling Work. Piling Work. | Construction of 37 piles of 600mm dia. upto the max depth of 57 ft. Total drilling carried out 2034 ft. Carrying out fabrication and installation of steel reinforcement. Sonic Integrity testing of 5 piles carried out. | Messrs Kingcrete Builders (Pvt) Limited, Lahore. | Axons Associates Architects&Engineers Lahore. |
| 366 | KAMALIA (District: Toba Tek Singh) Drilling of Holes in Concrete Drilling Foundation of Sugar Mills House. | Drilling of 341 bore holes of 100 mm dia. In RCC/PCC upto a depth of 1 ft. Drilling of 10 boreholes of 100 mm dia. Upto a max depth of 2 ft. Drilling of 24 boreholes for foundation of high speed gear boxes of 100 mm dia. in RCC/PCC upto a depth 3 ft. | Kamalia Sugar Mills Ltd. Kamalia. | |
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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 367 | MANGLA DAM RAISING PROJECT: Offshore Drilling and Sediment Sampling at Mangla Reservoir (Contract No. MDR-5). | Drilling of 12 Offshore holes in Mangla Reservoir upto a max depth of 135 ft. Total Drilling: 1145 ft. Drilling carried out from floating barges using direct cirulation drilling of 10 inch/PW diameter. Longyear machines alongwith mud circulation system mounted on the barge. Work executed in stormy weather and rough condition. 212 SPTs, 169 undisturbed samples and 12 Vane shear tests were executed. Carry out CPT tests for the confirmation of bed rock. Maximum water depth from surface to zero level was 140 ft. | General Manager(Projects) North, WAPDA, Lahore. | Mangla Joint Venture, Lahore. |
| 368 | SAWAN GAS FIELD DEVELOPMENT PROJECT: Drilling of Deepwell Groundbeds Boreholes for Cathodic Protection at The Central Processing Plant (CPP) (Subcontract No. SC-040). | Construction of 2 boreholes for Cathodic protection System. Max. Borehole dia. (182 mm diameter). Total drilling 130 meters (427 feet) upto a max depth of 70 meters. Development and testing of wells with air compressor. | Clough Engineering Ltd. of Australia/OMV (Pakistan) Exploration GmbH, Australia. | |
| 369 | SAWAN GAS FIELD DEVELOPMENT PROJECT: Drilling of Wells No. 8 & 9 for Cathodic Protection at Gas Well Casing (Subcontract No.SC-040). | Construction of 2 boreholes for Cathodic Protection System. Max. Borehole dia. (182 mm diameter). Drilling depth of each hole 90 meters. Total drilling 180 meters (591 feet). Installation of PVC casing dia. 4" upto 50 meters each and sanitary sealing around PVC casing. Back filling of holes with Calcined Coke upto 90 meters each. Construction of concrete collar 1 No. for each hole of sizes 50x50x30 cm. | Clough Engineering Ltd. of Australia/ OMV (Pakistan) Exploration GmbH, Australia. | |
| 370 | KAMALIA (District: Toba Tek Singh) Drilling of Holes in Concrete Foundation | Drilling of 2 bore holes of 100 mm dia. upto a depth of 2.7 meters each hole in | Kamalia Sugar Mills Ltd. Kamalia. | |

of Sugar Mills House.

vertical reinforced wall of 600mm width .

2004

GOMAL ZAM: Proposed Multipurpose Dam on River Gomal in N.W.F.P. Geotechnical/Site Investigation.

Additional Site Investigations for dam site. Work involved rotary drilling to recover cores from soil. Drilling of two nos. boreholes (BHS6 & BHS7) of upto a depths of 60/50 meters respectively. Total Core/ Rotary Drilling 110 meters. Carrying out packer tests (water pressure tests) and various laboratory tests on soil/rock tests.

Investigation Department, Tianjin Investigation, Design and Research Institute of Water Resources and Hydropower, Ministry of Water Resources, P.R. China (IDTIDI)/ WAPDA.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 372 | MIRANI DAM PROJECT: Proposed Turnkey Project located at 40 KM, West of Turbat Town to Supply Irrigation water for the lands on both sides of the non-perennial River Dasht. Consolidation Grouting, Grout Curtain and Fixing of Grouted Dowels. | Drilling of Angular Holes for Curtain Grouting from 15 feet to 90 feet depths. Total drilling carried out 6146 feet with roto-percussion rigs. Bach Mix & Injection of Grout 66,550 kilograms. Carried out 326 Nos. water pressure tests & permeability tests. Drilling of Angular holes for Consolidation Grouting. Total drilling carried out 8524 feet. Carrying out 5 Nos. trial grouting & water pressure testing in trial grout holes down to 60 feet. Fixing of the steel dowels and injection of grout (each hole upto 15 feet deep) Total 290 Nos. Steel Dowel carried out. | Mirani Dam Project Joint Venture Lahore/ WAPDA. | NEAC, Nespak House Lahore. |
| 373 | JINNAH BARRAGE LAKE: Secondary T/Lines and Grid Stations Project under JBIC Loan PK/P43 (Package-I) 220 KV T/Line Daukhel - Bannu. Tower No. 8. | Construction of 8 Piles of 1200mm dia. Upto a maximum depth of 36 meters each. Total drilling carried out 290 meters. Construction of pile foundation at Tower No. 8 including piles and pile caps & tie beams. Preparing barges/pontoons, platform, access, drilling/boring. Supply & installation of MS liner 10mm thick of 1200mm dia. Fabrication of steel bars, and making steel bars cages and casing, fixing reinforcement steel. Collection and testing of 33 Concrete Cylinder Samples of Tower No. 8. | Sichuan Electric Power Import & Export Corporation (SEPC) of China / WAPDA. | NESPAK Ltd., Lahore. |
| 374 | KARACHI: CREEK VISTAS AT CREEK CITY PHASE-VIII, DHA: Piling Works in Various Blocks. | Construction of 845 Piles with 1000/750/400 mm diameters. Maximum depth of pile 164.25 feet. Total drilling 106,012 feet. Pile Load Testing using reaction piles and Load Testing upto 1,000 Ton. | Associated Constructors Ltd., (ACL) / DHA, Karachi | Meinhardt (Pakistan) Private Ltd., Karachi. |
| 375 | LAHORE: AWAMI COMPLEX BLOCK NO. 1, GROUND FLOOR AT NEW GARDEN TOWN: Treatment of Columns. | Repair of 5 columns through guniting. Preparation of scaffolding platforms for guniting operations. Drilling of anchor holes and filling with epoxy. Carryout 500 sq.ft guniting for the repairing/treatment of columns | Bank Alfalah Ltd., Lahore. | Republic Engineering Corporation (Pvt) Ltd., Lahore. |
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| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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| No. | | of Works | | |

2005

2376 CHILAS: BASHA DIAMER DAM PROJECT: Proposed Multi purpose, 1,000 feet high dam on River Indus at Basha along the famous Karakoram highway. Excavation of 2 Adits.

Excavation of Exploratory Adit No.1 and 2 on Left and Right Bank of Indus River respectively. Dia. of Adits 2.4 m and 292 meters length of adit No. 1 and 217 meters length of adit No. 2. Excavation of chamber through rock by blasting and without blasting operations 106 cubic meters. Haulage of excavated material from within an Adit or Chamber to the specified dumping areas of 4,444 Cubic meters. Preparation of 1.2m x 1.2m x 75mm slots for flat jack testing. Work executed in very critical /rough weather conditions.

General Manager Technicl Services WAPDA Lahore. NEAC Consultant Basha Diamer Dam Project, NESPAK House Lahore.

377 ISKANDERABAD (DAUDKHEL)
District: Minawali: Maple Leaf Cement
Factory Ltd. Site f 6700 TPD (Phase-II)
Line-II. Geotechnical Investigation.

Geotechnical Investigation at the site of 6700 TPD cement plant. Drilling of 33 boreholes upto a maximum depth of 60 meters through straight rotary method in overburden soil including backfilling of boreholes. Total drilling 1,449 meters. Carrying out 1077 Nos. SPT in boreholes alongwith collection of SPT samples at 1 m interval etc. Collection of 147 UDS, 190 DS and 27 Nos. water samples from boreholes including their labelling, packing, storage & transportation to laboratory for testing.

Maple Leaf Cement Factory Ltd., Lahore.

National Engineering Service Pakistan (Pvt) Ltd. (NESPAK) Lahore.

378 ISKANDERABAD (DAUDKHEL)
District: Minawali: Maple Leaf Cement
Factory Ltd. Site of 6700 TPD(Phase-II)
Line-II. Test Piling and Pile Load Tests.

Construction of 12 Test Piles upto max 800 mm diameter with max depth of 35 meters. Total drilling 381 meter. Fabrication of steel cages, cutting, bending and lowering of steel reinforcement in test piles including holding rings and stiffeners etc. Carrying out 14 Pile Load Test upto a maximum of 700 tons.

Maple Leaf Cement Factory Ltd., Lahore.

National Engineering Service Pakistan (Pvt) Ltd. (NESPAK) Lahore.

9 SUKKUR BARRAGE
REHABILITATION PROJECT:
Emergency Works for Restoration of the
Barrage. Installation & Extraction of
Sheet Piles.

Installation and Extraction of 366 sheet piles upstream and downstream of cofferdam. Length of each sheet pile 38'-8". Installation of 200 Nos. of Permanent sheet piles at upstream and downstream of Dadu Canal and main gates. Total weight of sheet piles 439,607 Kgs.

HQ FWO Rawalpindi/Irrigation & Power Deptt. Govt. of Sindh. National Development Consultant Lahore.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|--|--|---|
| 380 | SUKKUR BARRAGE REHABILITATION PROJECT: Emergency Works for Restoration of the Barrage. Installation, Operation and Maintenance of Dewatering System. | Drilling and Installation of 1/2 cusec capacity, 20 Tubewells at upstream of cofferdam for dewatering system upto max depth of 100 feet. Installation of blind pipe strainer, shrouding material pump, electric motor and other accessories including disposal arrangement. | HQ FWO Rawalpindi/ Irrigation & Power Deptt. Govt. of Sindh. | National Development Consultant Lahore. |
| 381 | SUKKUR BARRAGE REHABILITATION PROJECT: Emergency Works for Restoration of the Barrage. Drilling & Grouting Works. | Drilling of 41 dowel holes inclined at 45 degree angle upto a depth of 5 feet. Drilling of 13 vertical grouting holes upto a max depth of 37 ft. Total drilling carried out 452 ft. Executing of 11 SPT before grouting and 8 SPT after grouting. | HQ FWO Rawalpindi/ Irrigation & Power Deptt. Govt. of Sindh. | National Development Consultant Lahore. |
| 382 | SUKKUR BARRAGE REHABILITATION PROJECT: Emergency Works for Restoration of the Barrage. Installation of Piezometers. | Drilling of 30 holes for electrical piezometers and drilling of 9 holes for stand pipe piezometers upto a max depth 30 ft. Total Drilling carried out 629 ft. Carrying out 61 Nos. SPT. | HQ FWO Rawalpindi/ Irrigation & Power Deptt. Govt. of Sindh. | National Development Consultant Lahore. |
| 383 | SUKKUR BARRAGE REHABILITATION PROJECT: Emergency Works for Restoration of the Barrage. Investigation Work. | Drilling of 30 investigatory holes in 5 main gates for cavity checking. Drilling of 10 gravity mapped holes, drilling of 17 SPT holes, drilling of 4 concrete depth testing holes, 6 permeability test holes, drilling of 16 check holes in PCC/Soil for checking of floor of main gates/main bay. Drilling carried out for 5 additional holes at Dadu Canal of supstream. Total Drilling carried out 1,154 ft. Executing of 143 Nos. SPT. | HQ FWO Rawalpindi/ Irrigation & Power Deptt. Govt. of Sindh. | National Development Consultant Lahore. |

2006

384 PROJECT PACKAGES LIMITED: Construction of Bored Cast-in-Place R.C.C. Piles for Foundations of Paper Machines and Turbine etc.

KASUR: BULLEH SHAH PAPER MILL Construction of 813 Piles of maximum 600 mm dia. Total Drilling 14,918 meters. Carrying out Pile load test on 1 No. test pile upto a max of 210 tons. Pile load test on 3 working piles upto a max of 60 tons. Breaking / removal of concrete from piles upto required elevation. Cut bend and lower Grade 60 deformed steel reinforcement cage of 523,780/- Kg in working piles and test piles including vertical bars, spirals, holding rings and stiffeners etc. Collection and Testing of 174 Concrete Cylinder Samples.

PACKAGES Limited Lahore.

Progressive Consultants (Pvt) Ltd., Lahore.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 385 | ISKANDERABAD (DAUDKHEL) District: Minawali: Maple Leaf Cement Factory Ltd. Site of 6700 TPD(Phase-II) Line-II. Construction of Main Working Piles including earth works. | Construction of 1,286 Piles of 660 mm diameter and 317 Piles of 800mm diameter with max depth of 56 Lin. meters. Total drilling 72,519 Lin.meter. Total volume of concrete 32,500 cubic meters. Total steel installed 3,739 tons. Excavation of all types of subsoil for pile caps including all labour, material, tools and plant upto 1.5m depth. Total excavation 40,477 cubic meters. | Maple Leaf Cement Factory Ltd., Lahore. | National Engineering Service Pakistan (Pvt) Ltd. (NESPAK) Lahore. |
| 386 | ISLAMABAD: GOLDCREST DHA, PHASE-II. High Rise Building Project: Test Piles Casting and Testing Package (Pile Load and Plate Load Tests). | Carry out 4 complete pile load test to failure (maximum load 750 tons) on vertical index piles at Oak, Gulmohar, Jakarranda and Cedar locations. Carry out 3 Plate Load Tests at Birch, Gulmohar and Cedar locations. Boring through all types of soil, rock and any remaining old foundations for bored cast-in-place reinforced concrete test piles. Total Drilling 46 meters. | Al Ghurair Giga Pakistan (Pvt) Ltd., Islamabad | Pakistan Engineering Services (Pvt) Ltd., Lahore Cantt. |
| 387 | KARACHI: POWER & DESALINATION PLANT AT DHA PROJECT: Piling and Earth Works. | Construction of 70 Piles upto a 750mm diameters and with max depth 47 meters of each pile. Total drilling 3,178 meters. Castin-situ reinforced type-1 concrete having minimum work cylinder strength of 281 kg per cm sq (4000 psi) at 28 days using approved quality 20mm down graded crush stone. Providing and laying deformed steel grade 60 reinforcement bars. Breaking of extended length of piles. Carry out earth works (Excavation & backfilling) i.e. excavation in foundation and trenches in all kind of soils including all operation of dewatering, levelling, dressing and ramming the excavation surface and throwing earth clear of edges of excavation, making and fixing steel reinforcement bars grade 60 inclulding cleaning, straightening, cutting, bending and placing in position with 18 gauge G.I. binding wire, steel chairs and concrete spacer blocks and bitumen coating all around structrure which is directly contact with earth. | Siemens Pakistan Engineering Co. Ltd. / DHA Cogen Ltd., Karachi | Engineering Consultants International (Pvt) Ltd., Karachi. |

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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 388 | CENTURY PAPER & BOARD MILLS LTD., 67 KM, LAHORE-MULTAN ROAD NEAR VILLAGE JUMER KHURD, DISTRICT KASUR: Piling Works. | Construction of 435 Piles of 600 mm dia. Total Drilling 8483 meters. Carrying out Pile load test on 1 test pile upto a max of 200 tons. Breaking / removal of concrete from piles upto required elevation. Cut bend and lower Grade 60 deformed steel reinforcement cage of 140,700/- Kg in working piles and test piles including vertical bars, spirals, holding rings and stiffeners etc. Collection and Testing of Concrete Cylinder Samples. | Century Paper & Board Mills Ltd. Lahore. | |
| 389 | SUKKUR BARRAGE REHABILITATION PROJECT: Emergency Works for Restoration of the Barrage. Installation of Piezometers. | Installation of 19 piezometers beneath large abutments. Set up at each location, drilling of holes in piers, installation of piezometers complete with connectors, box etc. Wire run for piezometers including cutting in old concrete with hydraulic cuter and filling with concrete. Total drilling carried out 277 meters. Carry out 12 SPT. | HQ FWO Rawalpindi / Irrigation & Power Deptt. Govt. of Sindh. | National Development Consultant Lahore. |
| 390 | KAMALIA SUGAR MILLS: Drilling of Holes in Concrete Foundation of Sugar Mills House. | Drilling of 3 bore holes 100 mm dia. upto a depth of 1900mm and 15 boreholes upto a depth of 600mm each hole in RCC/PCC foundations. | Kamalia Sugar Mills Ltd., Kamalia. | |
| 391 | KARACHI: KORANGI THERMAL POWER STATION. Pile Load Test and Pile Integrity Tests on Test Piles. | Carry out 4 Nos. pile load tests on 750mm dia. bored cast in-situ piles. Each test approx. 500 tons. Carry out 1 No. Lateral Load Test 50 tons. Pile depth varies between 12m and 20m. Total drilling 62 meters. Performing of pile integrity test on all test piles using the sonic echo method. | Siemens Pakistan Engineering Co. Ltd. / Karachi Electric Supply Corporation(KESC). | Siemens Germany. |
| 392 | CHILAS: DIAMER BASHA DAM PROJECT: Proposed Multi purpose, 1,000 feet high dam on River Indus at Basha along the famous Karakoram highway. Excavation of Adit No. 3 | Excavation of Exploratory Adit No.3 (3.2x2.4m) and 256m long on Right Bank of Indus River. Excavation of Adit portal through overburden, 124 cubic meters. Excavation of Adit through Rock 1795 cubic meters. Haulage of excavated material from within the Adit to the specified dumping areas of 1919 Cubic meters. Providing Timber and Steel supports in Adit about 5 cubic meter and 5.24 tons respectively. Work executed in very critical / rough weather conditions. | General Manager Technical Services WAPDA Lahore. | Diamer Basha Consultants Lahore. |
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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | 2007 | | |
| 393 | LAHORE: MABARAK CENTRE PROJECT: Proposed a Multiuse Complex on Ferozepur Road, near Kalma Chowk. Test Piles and Load Test. | Construction of 2 Nos. Test Piles of 1500mm diameter. and 4 Nos. Test Piles of 1200mm diameter. bored cast in-situ piles. Total drilling 126.10 meters. Carry out 1 No. Static Vertical Load Test 2400 tons and 2 Nos. Static Vertical Load Test 1500 tons. Carry out 1 No. Lateral Load Test 240 tons and 1 No. Laternal Load Test 150 tons. Carry out 1 No. PDA test 1500 tons. Performing of pile integrity test on all test piles using sonic echo method supplied by Pile Dynamics Inc. U.S.A. | Taavun (Pvt) Limited Lahore/ Project Manager Turner Construction International - LLC Lahore. | Noor Durrani & Associates Construction Engineers Lahore. |
| 394 | KASUR: BULLEH SHAH PAPER MILL PROJECT PACKAGES LIMITED: Construction of Bored Cast-in-Place R.C.C. Piles for Bridge Over Pandoki Drain and 41 MW Turbine Foundations of Paper Mill. | Construction of 24 Piles of 600 mm diameter and 12 Piles of 900mm diameter with maximum depth of a pile 32.60 meter. Total Drilling 878.80 meters. Cut bend and lower Grade 60 deformed steel reinforcement cage of 63,883.08 Kg in piles including vertical bars, spirals, holding rings and stiffeners etc. | PACKAGES Limited Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| 395 | KARACHI: CREEEK MARINA RESIDENTIAL DEVELOPMENT PROJECT IN DEFENCE HOUSING AUTHORITY: Carrying out fully instrumented Pile Load Tests, PDA Tests, Pile Integrity Tests and Construction of Cast-in-Situ Concrete Bored Piles. | Construction of 1758 Piles (871 piles of 560mm diameter, 520 of 1200 mm diameter, 267 of 1300mm diameter 100 of 1500 mm diameter). Maximum depth of a pile 33.50 meter. Total Drilling 48,043 meters. Cut bend and lower Grade 60 deformed steel reinforcement cage 3,728 metric tons in piles including vertical bars, spirals, holding rings and stiffeners. Carry out 8 load tests on 1200mm dia. test piles, fully instrumented with Strain Gauges and extensometers loading upto 3000 tons with load cells and data loggers. All tests done using 1200 mm dia. 40 meter deep anchor piles, 4 Nos. anchor pile for each test. Total drilling of test piles 242 meters. Carry out load tests on 15 Nos. working piles upto 2400 tons. Carryout 38 Nos. Pile Dynamic Analysis (PDA) using a drop weight of 35 tons on pile heads. Carrying out Pile Integrity Tests using Sonic Echo Method on all piles. | Creek Marina (Pvt) Limited Karachi. | Meinhardt Singapore Pte Limited. |
| 396 | LAHORE: Proposed Pearl Continental Hotel at Fort Road Lahore. Pile Integrity Tests. | Drilling of 3 Nos. Core 6" dia 12" long from top of piles. Carry out Pile Integrity Test on 6 Nos. Piles of 600mm diameter. Location left and right side of PC Hotel. | KingCrete Project Management (Pvt) Ltd., Lahore Cantt. | |

| Ser | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| No. 397 | CHILAS: DIAMER BASHA DAM PROJECT: Proposed Multi purpose, 1,000 feet high dam on River Indus at Basha along the famous Karakoram highway. Excavation of Adit No. 5 | Excavation of Exploratory Adit No.5 (2.4x3.2 m) and 651 m long on Right Bank of Indus River. Excavation of Adit portal through overburden (Open cut), 2.51 cubic meters. Excavation of Adit through Rock by Blasting Operation 4,579 cubic meters. Haulage of excavated material from within the Adit or Chamber to the specified dumping areas 4,581.63 Cubic meters. Providing Timber and Steel supports in Adit about 30 cubic feet and one ton respectively. | General Manager Technical Services WAPDA Lahore. | Diamer Basha Consultants Lahore. |
| 398 | CHILAS: DIAMER BASHA DAM PROJECT: Proposed Multi purpose, 1,000 feet high dam on River Indus at Basha along the famous Karakoram highway. Drilling of Boreholes. | Drilling of 12 Nos. Boreholes, 5 holes on the Left and 7 holes on the Right Bank of Indus River. Maximum depth upto 250 meters. Total drilling executed 1,648.4 meters. Carrying out 292 Nos. Water Pressure Tests (Lugeon Tests), carried out inclined drilling 750 meters. Carrying out 23 Nos. SPT and 10 Nos. CPT . Work executed in very critical / rough weather conditions. | General Manager Technical Services WAPDA Lahore. | Diamer Basha Consultants Lahore. |
| 399 | KHEWRA: ICI 65 KPTA Soda Ash Factory - Geotechnical Investigations. | Geotechnical Investigations at ICI 65 KPTA Soda Ash Factory. Drilling of 6 Boreholes, 2 boreholes upto a maximum depth of 15 meters at the Calciner foundation area and 4 boreholes upto a maximum of 25 meters below the top of ground at the Kiln foundation area. Total drilling executed 130 meters. Carrying out 6 plate load tests at the Calciner foundation area and 4 plate load tests at the Kiln foundation area. Laboratory testing and preparation of report including recommendations for pile and pad foundations. | ICI Pakistan Limited Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| | | 2008 | | |
| 400 | KHEWRA: ICI 65 KPTA Soda Ash Factory - Carrying out fully instrumented Pile Load Test, PDA Tests, Pile Integrity Test and Piling Work. | Drilling and concreting of 45 piles of 760mm diameter with maximum depth of 20 meters. Total drilling 909 meters. Fabrication and installation of Grade 60 deformed steel reinforement of 59,218 Kgs. Carry out breaking of pile heads and performing of a pile load test upto 360 tons in accordance with ASTM D-1143. Carrying out Pile Integrity Tests using Sonic Echo Method on all piles. Carryout 3 Nos. Pile Dynamic Analysis (PDA) using PAK analyzer of Pile Dynamic Inc. | ICI Pakistan Limited Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 401 | ISLAMABAD: AVARI HOTEL PROJECT - Piling and Pile Load Testing Works. | Construction of 169 piles of 750mm diameter. Drilling done in 9,000 psi sand stone. Maximum depth of a Pile 40 meters. Total drilling 5,478 meters. Carrying out 7 Nos. pile load tests on working piles upto 720 tons. Installation of Grade 60 deformed steel reinforcement 367,173 Kgs. Carrying out dewatering and excavation upto elevation (-10.15) for pile load testing. Pile Hacking / Breaking, Integrity testing for all piles. | Avari Hotels Limited Karachi. | Meinhardt (Pakistan) Pvt Ltd. Karachi. |
| 402 | LAHORE SUNDAR INDUSTRIAL ESTATE: Tetra Pak Pakistan Ltd., Lahore2 Project - Construction of Bored Cast-in-Place R.C.C. Piles for Foundations of Production Machine and Laminator Buildings. | Construction of 714 piles of 450mm diameter. Maximum depth of Pile 22 meters. Total drilling 15,527 meters. Installation of a test pile of 450mm diameter upto a depth of 22 meters. Installation of Grade 60 deformed steel reinforement 525,820 Kgs. Carry out 2 Nos. pile load tests on working piles upto 90 tons as per ASTM D1143. Supply of equipment and performance of Sonic Integrity Test and Pile Dynamic Analysis (PDA) as per ASTM D 4945 and provision of complete report using CAPWAP Analysis. Cut, Weld and Install 37,953 Kgs Sheet Piles. | Tetra Pak Pakistan Ltd. Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| 403 | LAHORE SUNDAR INDUSTRIAL ESTATE: Tetra Pak Pakistan Ltd., Lahore2 Project - Civil Works for Production Building (No. 20) and Basement. | Earthworks for structures. Compacted backfill in foundation including dressing watering, consolidation by ramming. (Total 11,554 cubic meters) Reinforcing steel bars of Grade 60. (Total 201,803 Kgs). Provide and lay strucural cement concrete of 5,800 psi cylinder crushing strength. (Total quantities 5,058 cubic meters). | Tetra Pak Pakistan Ltd. Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| | | 2010 | | |
| 404 | CHILAS: DIAMER BASHA DAM PROJECT: Proposed Multi purpose, 1,000 feet high dam on River Indus at Basha along the famous Karakoram highway. Excavation of 4 No. Chambers, Drilling for Overcoring / Plate Load Tests and Performance of Overcoring Tests in Adit No. 5 | Excavation of test chambers in Adit No. 5 through rock by blasting operations including mucking / haulage of excavated material from within the adit or chamber to the specified dumping areas. Drilling for overcoring/STT test hole of 40-146 mm dia. upto 90 m depth for further drilling / extraction of pilot hole core for performance of STT tests. Core drilling of overcoring/STT test hole of 35-39mm nominal dia core length 1-2 m at all test depths. Core drilling NQ size (76mm dia). | General Manager/CEO Diamer Basha Dam Organization WAPDA Lahore. | Diamer Basha Consultants Lahore. |

6 m deep hole for rigid plate load tests. (Total drilling 585 meters). Performance of 16 Nos. Overcoring/STT tests. Submission of Test Results/Report with

photographs.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | | 2011 | | |
| 405 | DERA GHAZI KHAN-LORALAI: 220 KV Double Circuit Twin Bundle T/Line from D.G.Khan Grid Station to 220 KV Loralai Grid Station (85 KM: from Location No.261 to location No. 520) (Lot-II). Geotechnical Investigation. | Survey for Tower stacking, erection, stringing, testing and commissioning and Sub-Soil Investigation in soil/ rock including laboratory tests. Drilling of 38 Nos. boreholes. Maximum dia. of hole (101mm diameter). Maximum 20 meters depth of a hole. Total drilling 548 meters. Collection and carrying out SPTs, CPT, chemical analysis of given soil samples, grain size analysis report ASTM D-422 and unconfined compression strength (ASTM D2938). | National Transmission & Despatch Company Ltd. (NTDC) / Pakistan Water and Power Development Authority (WAPDA) Lahore. | Barqaab Consulting Services (Pvt) Limited. |
| 406 | KOHALA-MUZAFFARABAD(AK)-CHAKOTHI ROAD (C-17) PROJECT: Piling works including Fabrication and Lowering of Steel reinforcement and Pouring of Concrete for Bridge at Chainage 50+00. | Rotary Boring / Drilling in hard strata of piles upto 1.2 m dia & 30 m depth including fabrication & lowering of steel reinforcement and Pouring of concrete. Construction of 18 piles completed. Total drilling carried out 354.25 meters. | HQ 491 Engineer Group FWO Abbottabad / National Highway Authority (NHA). | SMEC Islamabad. |
| 407 | TAUNSA HYDRO ELECTRIC PROJECT: Drilling of Boreholes for Geotechnical Investigation. | Drilling of 22 Nos. Boreholes at Headrace Channel, Powerhouse Site, Tailrace Channel and Bridge & Lock Sites on Indus River. Maximum depth of a hole upto 50 meters. Total drilling executed 692 meters. Carrying out Pumping Tests. Collection of 178 Nos. Undisturbed Samples and carrying out 312 Nos. SPTs. | Investigation Department, China Water Resources Beifang Investigation, Design and Research Co. Ltd. PR China (IDBIDR) / Pakistan Water and Power Development Authority (WAPDA) Lahore. | |
| | | 2012 | | |
| 408 | LAHORE: PACKAGES LTD. Concrete Repair Works on fire damaged Building by Using Gunite. | Chipping and Scaling 28,695.9 Sq.ft., Guniting Roof 16376.04 Sq.ft. Guniting Column 4422.8 Sq.ft. Guniting Beam 6,298.9. Total Gunite 27,097.80 Sq.ft. | PACKAGES LTD. Lahore. | |
| 409 | KOHALA-MUZAFFARABAD(AK)-CHAKOTHI ROAD (C-17) PROJECT: Piling works including Fabrication and Lowering of Steel reinforcement and Pouring of Concrete for Pashi Avalanche Shelter. | Rotary Boring / Drilling in hard strata of piles upto 1.2 m dia & 30 m depth including fabrication & lowering of steel reinforcement and Pouring of concrete. Construction of 40 piles completed. Total drilling carried out 1,046 meters. | HQ 491 Engineer Group FWO Abbottabad / National Highway Authority (NHA). | SMEC Islamabad. |
| 410 | KOHALA-MUZAFFARABAD(AK)- CHAKOTHI ROAD (C-17) PROJECT: Piling works including Fabrication and Lowering of Steel reinforcement and Pouring of Concrete for Chinari Bridge. | Rotary Boring / Drilling in hard strata of piles upto 1.2 m dia & 30 m depth including fabrication & lowering of steel reinforcement and Pouring of concrete. Construction of 25 piles completed. Total drilling carried out 454 meters. | HQ 491 Engineer Group FWO Abbottabad / National Highway Authority (NHA). | SMEC Islamabad. |
| 411 | LAHORE: BUS RAPID TRANSIT SYSTEM (BRTS) FOR LAHORE- FEROZEPUR ROAD CORRIDOR FROM QARTABA CHOWK TO MAO COLLEGE (PACKAGE-3) PROJECT: Piling and Pile Load Test Works. | Construction of 130 Nos. Cast in place concrete piles of 1200 & 2000 mm diameter upto a maximum depth of 65 meters. Carrying out of one pile load test for 1200 mm dia. pile upto 2.5 times design load of 330 Ton. Total drilling carried out 6,680.545 meteters. Reinforcement steel cutting, bending and fixing of 1260 tons. | Zahir Khan and Brothers J.V. Lahore / TEPA Deveopment Authority Lahore. | NESPAK Lahore. |

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| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
| 412 | LAHORE: BUS RAPID TRANSIT SYSTEM (BRTS) FOR LAHORE- FEROZEPUR ROAD CORRIDOR FROM QARTABA CHOWK TO QADDAFI STADIUM PROJECT: Piling Works. | Construction of 3 Nos. Cast in place concrete piles of 2,000 mm diameter upto a maximum depth of 53 meters. Total drilling carried out 245.30 meteters. | Albayrak-SKB J.V. Lahore / TEPA Deveopment Authority Lahore. | NESPAK Lahore. |
| 413 | SIRAN VILLAGE, DISTRICT MUZAFFARABAD (AK): KOHALA HYDROPOWER PROJECT: Proposed 1100 MW on Jhelum River: Exploratory Adit Works. | Excavation (tunnelling) of Exploratory Adit (Size 2mx2m) for Site Investigation, Locations PD3, PD4, PD5 & PD6, Portal EL 880m, 885m &865m. Maximum depth of adit 62.50m. 12 Nos. Exploratory Chambers (Chamber Size 2m x 2mx2m). Removed of overburden from adits. Total 40 meters. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |
| | | 2013 | | |
| قــــــــا | | | 11 | |
| 414 | CHAKDARA BRIDGE NEAR BATKHELA AT KM 88 ON NATIONAL HIGHWAY (N-45) IN KHYBER PAKHTUNKHWA PROVINCE ON RIVER SWAT, DISTRICT DIR: Piling and a Test Pile for Construction of New Bridge at Chakdara. | Construction of 30 Nos. bored cast-in-situ, concrete piles of 1500 mm diameter. Drilling in hard rock and boulders. Maximum depth of pile 25 meters. Carrying out one test pile of 1500 mm dia. upto 22 meters depth. Total drilling carried out 677 meters. Reinforcement steel cutting, bending and fixing of 304 tons. | Mohmand Construction (Pvt) Ltd., Peshawar / National Highway Authority (NHA). | Associate Consultant Engineers -ACE (Pvt) Ltd. Lahore. |
| 415 | KAROT VILLAGE, DISTRICT RAWALPINDI: KAROT HYDROPOWER PROJECT: Proposed 720 MW on Jhelum River: Exploratory Adit Works. | Drilling of 13 Nos. Boreholes upto depth 100-130 meters (Rotary Drill Holes) in weathered and fresh rock obtaining continuous samples using double tube coring equipment. Total drilling carried out 1,690 meters. Excavation (tunnelling) of Exploratory 3xAdits (PD3, PD4 & PD5) (Size 2mx2m). Total 235 meters. Carried out 323 Packer Tests (water presssure tests). Preparation of track to adit portal. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |
| 416 | TARBELA DAM: SMST - OFFSHORE Drilling & Sediment Sampling in Tarbela Reservoir Site. | Drilling of 11 Offshore holes in Tarbela Reservoir Site upto maximum depth 100 meters from platform level. Total Drilling 476.86 meters. Borehole dia. 110 mm. Set up on drill holes including moving into position, anchoring and maintaining barges & pontoons in drilling position. Drilling carried out from floating barges (pontoon). Longyear Straight Rotary Machines alongwith mud circulation system mounted on the barge. Work executed in stormy weather and rough conditions. 191 SPTs, 65 Undisturbed Samples were executed. Preparation and submission of factual report. | MM Pakistan (Pvt) Ltd. Lahore /Pakistan Water & Power Development Authority (WAPDA). | Tarbela SMS JV Consultants. |

| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
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417 KAROT VILLAGE, DISTRICT
RAWALPINDI: KAROT
HYDROPOWER PROJECT ON
JHELUM RIVER AND GHORA
RAJGAN IN PAKISTAN: Proposed 720
MW Hydropower Project on Jhelum
River: Borehole Drilling Works on the
Land and in the River, Exploratory Adits
for Site Investigation.

Drilling of 3 Nos. Boreholes in Dry Land upto depth 100 meters in Stage-1. Total drilling carried out 265 meters. Drilling of 7 Boreholes in River upto depth 100 meters. Total drilling carried out 570 meters. Drilling of 14 Nos. Boreholes in Dry Land upto depth 100 meters in Stage-2. Total drilling carried out 1,175.50 meters. In Stage-1 and Stage-2, total drilling carried out 2,010,50 meters. All drilling carried out in weathered/ fresh rock obtaining continuous samples using double tube coring equipment in inclined holes drilled to the downward. Excavation (tunnelling) of Exploratory 5xAdits (PD1, PD2, PD4, PD6 & PD8) (Size 2mx2m). Total 244.10 meters. Carried out 295 Packer Tests (water presssure tests). Preparation of tracks to adit portal.

Changjiang Geotechnical Engineering Corporation (CGEC) (Wuhan) P.R. China / Pakistan Water & Power Development Authority (WAPDA).

418 JHIKA GALI MURREE: Piling Work and Construction of Pile Caps, Beams and Walls. Installation of an Inclinometer System, Drilling of Boreholes & Installation of Seepage Wells for Restoration of Landslide. Construction of 131 Nos. Piles of 1200 mm. diameter for Wall 1, Wall Add, Wall 2 and Wall (Kuldana). Maximum depth of pile 30 meters. Total drilling carried out 2997.78 meters. Carrying out 1 (one) No. Lateral Load Test (200 Tons). Procurement and Installation of an Inclinometer System consisting of one digital data logger with software, Inclinometer probe, control cable, pulley assembly and shipment to site. Execution of 7 Nos. boreholes upto a maximum depth of 25 meters in overburden soils/bed rock (Total Drilling 175 meters) and installation of inclinometer casing pipe 85mm dia.(alongwith top and bottom cap), and their monitoring on daily basis during installation period. Cut bend and installation of Reinforcement Grade-60 Qty. 1256.45 Tons. Installation of steel liner in piles dia 1200mm Qty. 114.3 Tons. Concreting of Pile Caps A-3 and Blind concrete Wall 1, Wall Add, Wall 2 Qty. 984 cubic meter. Installation of Seepage Wells, Drilling and Fixture installation Qty. 2 Nos.

National Logistics Cell (NLC) Rawalpindi / Communication and Works (C&W) Department Lahore. National Engineering Services (Pvt) Ltd. (NESPAK) Lahore.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 419 | KARACHI: PORT QASIM 2 x 660 MW THERMAL POWER PLANT PROJECT. Offshore Drilling of holes and Drilling of holes on Dry Land and Sampling for Geotechnical Investigation and Geophysical/Seismic Survey. | Drilling of 33 Offshore holes and 105 holes on Dry Land upto a maximum of depth 33 meters. Total Drilling 3366 meters. Borehole dia. 96 mm. Carried out 5 downhole Geophysical/Seismic Survey. Set up on drill holes including moving into position, anchoring and maintaining barges & pontoons in drilling position. Drilling carried out from floating barges (pontoon). Longyear Straight Rotary Machines alongwith mud circulation system mounted on the barge. Work executed in stormy weather and rough conditions. 68 Undisturbed Samples (UDS), 75 Disturbed Samples, 315 Standard Penetration Tests (SPT) Samples, 22 Cone Penetration Test (CPT) performed, 5 Rock Core Samples Waxed were executed. Preparation and submission of factual report of Downhole Geophysical / Seismic Survey. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Sinohydro Resources Ltd., China. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Sinohydro Resources Ltd., China. |
| 420 | RAWALPINDI: METRO BUS PROJECT (PACKAGE-II) FROM COMMITTEE CHOWK TO 6TH ROAD RAWALPINDI (CHAINAGE 4+200 TO 6 + 100): Piling Work. | Construction of 395 Nos. Piles of 1.2 m diameter upto 45m, lowering of steel cages and pouring of concrete. Total drilling carried out 15,826 meters. Supply and Installation of Liner 90 meters. | National Logistics Cell (NLC) Rawalpindi / Rawalpindi Development Authority (RDA). | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |
| 421 | MANDRA-CHAKWAL ROAD PROJECT BRIDGE AT RD 21 +706 & RAILWAY FLYOVER AT RD 1+399: Dualization & Improvement of Road Geotechnical/Soil Investigation Works. | Drilling of one Borehole at Bridge Abutment - A, one Borehole at Bridge Abutment- B. Depth of each borehole is 25 meters. Drilling of one Borehole at Railway Flyover Abutment-B upto depth 35 meters. Dia. of boreholes 96mm. Total drilling carried out 96 meters. Collection & carrying out 22 SPT samples, 7x waxed, 2xWater samples. Carrying out Laboratory tests of Unconfined Compression Test on Rock & Soil, Direct Shear, Triaxial (UU), Consolidation, Grain Size Analysis, Liquid Plastic Limits, Natural Moisture Content, Specific Gravity, Unit Weight and Chemical Test (Sulphate, Choloride &PH) on Soil & Water. Preparation and submission of factual report. | National Logistics Cell (NLC) Rawalpindi. | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 422 | RAWAT-MURREE PIPELINE (AT MP34.33): TREATMENT OF LAND SLIDING PROBLEM FOR 325MM DIA. SUI GAS PIPELINE. Piling and other works. | Construction of 8 Nos. Piles of 1.2 m diameter. Maximum depth of pile 23 meters. Total drilling carried out 131.10 meters. Clearing and Grubbing 16878 Sq.meters. Structural Excavation in common Material 1607.33 cubic meters. Concrete Class A1 Transom / Pile Cap & Drain 101.55 cubic meters. Reinforcement as per AASHTO M31 Grade 60 (Transom/Pile Cap & Piles 4.49 tons, Piles 37.17 ton and Drain 5.24 ton). Grouted stone Pitching for construction of drain as per drawings 442.76 Sq. meters. Supply and filling approved quality imported earth including breaking clods, levelling, dressing, watering and consolidating in 152 mm kayer etc. complete including all lifts complete as per instructions of engineer 890.11 cubic meters. Plantation qty one. | Sui Northern Gas Pipelines Limited Lahore. | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |
| | | | | |
| 423 | RAWALPINDI - ISLAMABAD METRO BUS PROJECT (PACKAGE ISB-II) AT PEWSHAWAR MORR INTERCHANGE: Piling Work. | Construction of 31 Nos. Piles of 1.2 m diameter upto 35m, lowering of steel cages and pouring of concrete. Total drilling carried out 945 meters. | National Logistics Cell (NLC) Rawalpindi / Rawalpindi Development Authority (RDA). | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |
| 424 | MAKHAD BRIDGE: HIGH LEVEL BRIDGE OVER SOAN RIVER BETWEEN DISTRICT: MIANWALI & ATTOCK: Piling, Sheet Piling and Dewatering Works. | Construction of 64 Nos. piles of 1220mm diameter, lowering of cages and pouring of concrete. Maximum depth of a pile 133 feet. Total drilling carried out 8,497 feets. | Sh. Abdur Razzaq & Co. (Pvt) Ltd. / National Logistics Cell (NLC) / C&W Punjab Highway. | Engineering Consultancy Services Punjab (Pvt) Ltd. (ECSP) Lahore. |
| 425 | GULEHRA GALI MURREE PATRIATA ROAD AT RD 91 TO 92: Piling Work and Construction of Pile Caps for Remedial Measures of Landslide | Construction of 35 Nos. piles of 1200mm diameter, fabrication and lowering of steel cages tremmie concreting and pouring of concrete pile cap. Fixing and dismantling of form work in portion wall. Breaking of pile concrete, pile cap and excavation of pile cap. Maximum depth of a pile 22 meters. Total drilling carried out 561.65 meters. | National Logistics Cell (NLC) Rawalpindi / C&W Department Punjab Highway Circle Rawalpindi. | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| 426 | PATRIND VILLAGE DISTRICT MUZAFFARABAD (AK): 150 MW PATRIND HYDROPOWER PROJECT ON KUNHAR RIVER: Construction of Secant Piles for Temporary Downstream Coffer Dam at Weir Site. | Construction of 46 Nos. Secant Piles of 1300 mm diameter. Maximum depth of secent pile 12 meters. Total drilling carried out from guide wall 524 meters. | Daewoo Engineering & Construction Co. (E&C) Ltd . Korea. | |
| 427 | JHIMPIR VILLAGE DISTRICT THATTA (SINDH PROVINCE): 100 MW THREE GORGES SECOND & THIRD WIND FARM PROJECT: Geological Investigation and Soil & Rock Resistivity Test Works. | Drilling of 78 Nos. Boreholes upto a maximum depth of 20 meters. Dia of hole 96 mm. Total drilling carried out 1160 meters. Carry out 17 Nos. SPT, 167 Cone Dynamic Penetration Tests of Heavy Type and Extra Heavy Type. Collection in-situ soil samples. Providing, Installation and Grouting PVC Pipe in 3 Boreholes for Seismic Testing. | Shanghai Investigation, Design & Research Institute Co. Ltd. (SIDRI) | |
| 428 | SIRAN VILLAGE, DISTRICT MUZAFFARABAD (AK): KOHALA HYDROPOWER PROJECT: Proposed 1100 MW on Jhelum River: Boreholes Drilling for Site Investigation Work. | Drilling of 4 Nos. Boreholes ZKT-4 (Dia. P/H/N/B), ZKT-5 (Dia.H/N), ZKT-6 (Dia. H/N) and ZKC-15 (Dia. H/N) upto maximum depth 400 meters. Total drilling carried out 1,325 meters. Carried out Rotary Drilling to recover cores from soil, wethered and fresh rock and all holes drilled vertically. Carried out water pressure tests. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |
| 429 | SIRAN VILLAGE, DISTRICT MUZAFFARABAD (AK): KOHALA HYDROPOWER PROJECT: Proposed 1100 MW on Jhelum River: Exploratory Adits Work. | Excavation (tunnelling) of Exploratory 3xAdits (Size 2.5mx3.25m) for Site Investigation, Locations PD8 (Length 180m), PD9 (Length 180m) & PD10 (Length 140m). Total length of adits 500 meters. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |
| 430 | MAHL HYDROPOWER PROJECT: Proposed 590 MW on Jhelum River & Mahl River at the border of AJ&K and Punjab Province: Boreholes Drilling for Geological Investigation Work. | Drilling of 52 Nos. Boreholes Land Drilling (vertical& inclined) upto maximum depth 235 meters (Land & Submerged Drilling). Total drilling carried out 5,098 meters. Carried out 523 water pressure tests. | Shanghai Investigation, Design & Research Institute Co. Ltd. (SIDRI) P.R. China / Pakistan Water & Power Development Authority (WAPDA). | |
| 431 | MAHL HYDROPOWER PROJECT: Proposed 590 MW on Jhelum River & Mahl River at the border of AJ&K and Punjab Province: Exploratory Adits Work. | Excavation (tunnelling) of Exploratory 1xAdit (Size 2mx2m) for Site Investigation, Location PD3 (Length 34m). Total length of adit 34 meters. | Shanghai Investigation, Design & Research Institute Co. Ltd. (SIDRI) P.R. China /Pakistan Water & Power Development Authority (WAPDA). | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|---|--|---|
| 432 | BOREHOLE DRILLING WORK, DRILLING OF ZKC-1, ZKC-2, ZKC-3, ZKS-1 and ZKS-2 AT SUKI KINARI HYDROPOWER PROJECT. | Drilling of ZKC-1 (340 Meters), Water Pressure Test(WPT) 33 Nos., Constant Head Test(CHT) 13 Nos., ZKC-2 (380 Meters), WPT 37 Nos., CHT 13 Nos., ZKC-3 (250 Meters), WPT 24 Nos., CHT 13 Nos., ZKS-1 (180 Meters), WPT 17 Nos., CHT 13 Nos., ZKS-2 (110 Meter), WPT 10 Nos., CHT 9 Nos. Total Drilling 1260 Meters. Total WPT 121 Nos., Total CHT 61 Nos. | China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R.China (BIDR) | |
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| 433 | CONSTRUCTION OF AUXILIARY WORK FOR BOREHOLE DRILLING, APPROACH ROAD OF ZKC-1, ZKC-2, ZKC-3, ZKS-1and ZKS-2 AT SUKI KINARI HYDROPOWER PROJECT. | Auxiliary Work Construction of Approach Road and Drilling Paltforms for Five Boreholes, ZKC-1, ZKC-2, ZKC-3, ZKS-1 & ZKS-2. | China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R.China (BIDR) | |
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| 434 | BOREHOLE DRILLING WORK, DRILLING OF ZKKGZ-1, ZKKGZ-2 and ZKZD-7 AT SUKI KINARI HYDROPOWER PROJECT. | Borehole Drilling of (ZKKGZ-1 & ZKKGZ-2) (90 Meters) & ZKZD-7 (40 Meters), Water Pressure Tests 6 Nos. Total Drilling 130 Meters. | China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R.China (BIDR) | |
| 435 | PORT QASIM KARACHI 2X660 MW COAL FIRED POWER PLANT PROJECT (PACKAGE-B) CONTRACT NO. PK001-SS-005-00: Piling Work. | Construction of 2,465 Piles of 750mm diameter and 1,000mm diameter with maximum depth of 25 meter. Total Drilling 46,277 meters. Carryout 157 PDA Tests and 517 PIT Tests. Total Rebars Steel 1,606 Tons. | SEPCO III Electric Power Construction Corporation/ Sinohydro Resources Ltd./Port Qasim Coal Fired Electric Power Co. Ltd. | |
| 436 | MAPLE LEAF CEMENT FACTORY ISKANDERABAD, DISTRICT: MIANWALI 40 MW COAL FIRED POWER PLANT: Piling Work. | Construction of 466 Piles of 600mm diameter and 1,000mm diameter with maximum depth of 25 meter. Total Drilling 13,080 L.meters. Carryout 4 Test Piles and 23 PDA Test upto 380 M/Ton on test piles and 5% of working piles. Steel Reinforcement bars G-60 deformed 369 Tons. | Maple Leaf Cement Factory Iskanderabad, District: Mianwali. | SINOMA Energy Conservation Ltd. China. |
| 437 | TREET BATTERY PROJECT FAISALABAD INDUSTRIAL CITY FIEDMC PHASE-II AT M-3: Piling Work. | Construction of 983 Piles of 460 mm diameter and 600 mm diameter with maximum depth of 20 meter. Total Drilling 16,700 meters. Carryout 3 Pile Load Tests for 25, 48 & 65 Tons. Carryout Sonic Integrity (Pit Tests) and Pile Breaking of all working 983 piles. Carryout 23 PDA Tests. Total Rebar Steel 490 Ton. | First Treet Manufacturing Modaraba (FTMM) 72-B, Kotlakhpat Industrial Area Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| 438 | TREET BATTERY PROJECT FAISALABAD INDUSTRIAL CITY FIEDMC PHASE-II AT M-3: Pile Cap/Foundation Civil Works for Construction of Main Plant Building (Part-I). | Construction of Pile Caps 186 Nos. (3450x3450x900 mm size). Having work of Structural Excavation, Backfill, Termite Proofing, PCC, Water Proofing, Reinforcement and RCC (1,950 cubic meters) Total Rebar Steel 177 Ton. | First Treet Manufacturing Modaraba (FTMM) 72-B, Kot Lakhpat Industrial Area Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|--|--|---|
| | | 2017 | | |
| 439 | TREET BATTERY PROJECT FAISALABAD INDUSTRIAL CITY FIEDMC PHASE-II AT M-3: Earth Works | Carryout earth works by cleaning and grubbing of plant area upto 200mm depth. NGC 93% MPD (Plant & grid station 63,130 sq.meters and area of all services buildings 6,733 sq.meters). Carryout filling of sand (Chenab) 95% MPD upto 400mm depth and filling of silty sand upto 2 meters depth for plant and grid station. Sand filling upto depth 2 meters for services building. Filling of clay upto 2 merters depth to act as imposed surcharge loading which was removed after two months. Total sand utilized 40,523 cubic meters, Silty sand Kassu 113,763 cubic meters and clay 83, 455 cubic meters. | First Treet Manufacturing Modaraba (FTMM) 72-B, Kot Lakhpat Industrial Area Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| 440 | TREET BATTERY PROJECT FAISALABAD INDUSTRIAL CITY FIEDMC PHASE-II AT M-3: Civil Works for Boundary Wall (Type-1 & 2). | Construction of two types of boundary walls (Type-01 Precast Planks) Length 825 linear meters and (Type-2 Chain Link Fence) Length 1,007 linear meters. | First Treet Manufacturing Modaraba (FTMM) 72-B, Kot Lakhpat Industrial Area Lahore. | Progressive Consultants (Pvt) Ltd., Lahore. |
| 441 | BOREHOLE DRILLING WORK, DRILLING OF ZKC-4 AT SUKI KINARI HYDROPOWER PROJECT. | Borehole Drilling of ZKC-4 (395 Meters) & Water Pressure Tests 30 Nos. | China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R.China (BIDR) | |
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| 442 | BOREHOLE DRILLING WORK, DRILLING OF (ZKL-1 to ZKL-8) AT SUKI KINARI HYDROPOWER PROJECT. | Borehole Drilling of ZKL-1 (40 Meters), ZKL-2 Horizontal (116 Meters), ZKL-3 (70 Meters), ZKL-4 (80 Meters), ZKL-5 (65 Meters), ZKL-6 Horizontal (65 Meters), ZKL-7 Horizontal (80 Meters) & ZKL-8 (80 Meters). Total Drilling for all 8 Boreholes (575 Meters). | China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R.China (BIDR) | |
| 443 | PORT QASIM KARACHI 2X660 MW COAL FIRED POWER PLANT PROJECT (PACKAGE-B) CONTRACT NO. PK001-SS-085-00: Part of the Piling Work. | Construction of 768 Piles of 750 mm diameter and 1,000mm diameter with maximum depth of 25 meter. Total Drilling 12,078 meters. Carryout 83 PDA Tests and 485 PIT Tests. Total Rebars Steel 370 Tons. | SEPCO III Electric Power Construction Corporation/ Sinohydro Resources Ltd./Port Qasim Coal Fired Electric Power Co. Ltd. | |
| 444 | PORT QASIM KARACHI 2X660 MW COAL FIRED POWER PLANT PROJECT (PACKAGE-B) CONTRACT NO. PK001-SS-085-01: Geotechnical Investigation Work of Apartment Building and Dewatering Work. | Drilling of geological investigation 47 boreholes in all types of soil and rock using rotary drilling equipment including recovery of cores and provision of core boxes and SPT tests. Total Drilling 1,316 meters. Preparation and submission of Geotechnical Report. Drilling and Installation of 55 Dewatering Wells. Total Drilling of Dewatering Wells 628 meters. | SEPCO III Electric Power Construction Corporation/ Sinohydro Resources Ltd./Port Qasim Coal Fired Electric Power Co. Ltd. | |
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| Ser | Project Particulars | Description & Quantum | Clients | Consultants |
| No. | | of Works | | |
| 445 | MAPLE LEAF CEMENT FACTORY ISKANDERABAD, DISTRICT: MIANWALI CONSTRUCTION PHASE STUDIES, GREY CEMENT PLANT LINE-III (PHASE I, II & 132 KV GRID STATION): Geotechnical Investigation Work. | Drilling of 55 Nos. Boreholes upto a maximum depth of 45 meters in all types of soil and rock using rotrary drilling equipment including recovery of cores and provision of core boxes on SPT tests. Total drilling carried out 1,794 meters. Carry out 250 Nos. CPT/SPT, 9 UDS and 238 Pressure meter Tests. Preparation and submission of factual report on Geotechnical Work. | Maple Leaf Cement Factory Iskanderabad, District: Mianwali. | |
| 446 | MAPLE LEAF CEMENT FACTORY ISKANDERABAD, DISTRICT: MIANWALI CONSTRUCTION PHASE STUDIES, GREY CEMENT PLANT LINE-III (PHASE I, II & GRID STATION): Trial Piles. | Execution of 7 Nos. Trial Piles for Department 481 & 212 Line-III. Dia of Piles 660mm diameter and 800 mm diameter with maximum depth of 31 meter. Total Drilling 164 meters. Carry out pile load tests on TP-01 to TP-07 upto 1,500 Tons. Cross hole sonic logging, PIT and PDA tests. | Maple Leaf Cement Factory Iskanderabad, District: Mianwali. | |
| 447 | CHERAT CEMENT COMPANY LTD. NOWSHERA (KPK): Piling & Pile Load Test Works for Installation of New Cement Plant at Line-3. | Construction of 388 Piles of 1,000 mm diameter and 1,200 mm diameter with maximum depth of 27.2 meter. Total Drilling 8,667 meters. Carried out 6 Pile Load Tests of 2,000 Tons. Carried out Pile Breaking of all working piles. Total Rebar Steel 474 Ton. Concrete 7,583 Cubic Meters. | Cherat Cement Company Ltd. Nowshera (KPK). | |
| 448 | 1100-1400 MW RLNG BASED COMBINED CYCLE POWER PLANT IN PUNJAB AT JHANG, PUNJAB: Test Pile Construction & Pile Load Test. | Construction of 3 Piles of 760 mm diameter with maximum depth of 30.35 meter. Total Drilling 80 meters. Carryout 3 Pile Load Tests of 750 Tons. Prepare Pile Load Test Reports of TP 7, TP 7A & TP 8. | Punjab Thermal Power (Pvt) Ltd. (PTPL), Government of Punjab / National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |

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| 449 | PESHAWAR-KARACHI MOTORWAY (PKM) (SUKKUR-MULTAN) SECTION-4 OF THE BRIDGE: Piling Work. | Construction of 461 Piles of 1,200mm diameter with maximum depth of 50 meter. Total Drilling 15,008 meters. Carryout 7 Pile Load Tests upto maximum 700 Tons. Prepare Pile Load Test Reports and Carryout 171 PIT Tests. Total Concrete 16,970 Cubic Meters and Total Rebars Steel 2,716 Tons. | National Highway Authority (NHA) Pakistan/China State Construction Engineering Corporation Limited (CSCEC), Pakistan Branch. | Assistant to Employer's Representative (AER) |
| 450 | MAPLE LEAF CEMENT FACTORY ISKANDERABAD, DISTRICT: MIANWALI AT MIX STORAGE SHED DEPARTMENT 131 LINE-III: Plate Load Test Work. | Execution of 2xPlate Load Tests (with size of Bearing Plate (mm) 500x500x45, Pressure on loading plate/soil upto 313 psi, 2,160 Kpa and Load upto 55 Tons). | Maple Leaf Cement Factory Iskanderabad, District: Mianwali. | |

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|---|--|---|
| 451 | 128-BED MOTHER AND CHILD CARE HOSPITAL, MURREE: Additional Geotechnical Investigations (Field and Laboratory Works) for Construction of Hospital. | Execution of 4 Nos. Boreholes upto maximum depth of 20 meters in overburden soil or upto the bedrock by straight rotary/heavy percussion. Continuous core drilling (HQWL Core) in bedrock upto a maximum depth of 65 meters below NSL using triple tube split core barrel, including extraction, preservation of core samples in core boxes, waxing of selected core samples, photography of rock cores. Total drilling carried out 240 meters of HQWL Core and 20 meters of Overburden (Total drilling carried out 260 meters). Performance of 17 Nos. SPT's in boreholes in overburden soil as well as shale rock. Collection of 5 Nos. undisturbed soil samples from boreholes. Carry out 214 Nos. of various lab tests. | National Engineering Services Paksitan (Pvt) Ltd. Lahore/Infrastructure Development Authority of Punjab (IDAP). | National Engineering Services (Pvt) Ltd. (NESPAK) Lahore. |
| 452 | AZAD PATTAN HYDROPOWER PROJECT ON JHELUM RIVER: Borehole Drilling Works on river and on dry land for Geotechnical Investigation. | Drilling of 2 Nos. Boreholes ZKC-1 (70 Meters) and ZKC-2 (45 Meters) on river. Carry out water pressure tests 20 Nos. and water injection tests 2 Nos. (Total drilling 115 meters). Drilling of 11 Nos. ZKY-1 to ZKY-11 Rotary drill holes on dry land for vertical and inclined boreholes upto maximum depth 165 meters for vertical and 210 meters for inclined. Total Drilling 1,100 meters. All total drilling carried out 1,215 meters. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |
| 453 | AZAD PATTAN HYDROPOWER PROJECT ON JHELUM RIVER: Exploratory Adits Work. | Excavation (tunnelling) of Exoloratory 6xAdits (Size 2m x 2m) at Dam Abutment (PD1, PD2, PD3, PD4, PD2-1 & PD4-1). Maximum Length of a adit 70 meters. Total length of adits 279 meters. Providing & installations steel supports 2,350 tons in adits and wooden supportrs 22.74 cubic feet. | Investigation Deparment, China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA). | |

AZAD PATTAN HYDROPOWER PROJECT ON JHELUM RIVER: Additional Borehole Drilling Works on Land and River for Getotechnical Investigation.

Drilling of 4 Nos. ZK-03 (80 Meters), ZKD- Investigation Department, 01 (40 Meters), ZKD-02 (40 Meters) and ZK-09 (60 Meters) vertical and inclined rotary drill holes on dry land. Total Drilling 220 meters. Drilling of 3 Nos. Boreholes ZKC-04 (25 Meters) ZKC-05 (25 Meters) and ZKC-03 (18.5 Meters) on river. Carry out water pressure tests 41 Nos. and water injection tests 7 Nos. (Total drilling 68.5 Meters).

China Water Resources Beifang Investigation, Design and Research Co. Ltd., P.R. China (IDBIDR) / Pakistan Water & Power Development Authority (WAPDA).

455 FATIMA CEMENT LIMITED QUARRY SITE IN UMER KHEL VILLAGE, DISTRICT: D.I.KHAN: Access Development Works and Borehole Drilling, Core Splitting and Storage Works..

Drilling of 10 Nos. Boreholes using compressed air, upto a maximum depth of 100 meters of HQ Dia. Total drilling carried out 801 meters. Carry out access development work (Total approach road = 10,200 meters).

Fatima Cement Limited, 35-A, Empress Road, Lahore.

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
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| | LUCKY 1X660 MW COAL FIRED POWER PLANT DEH GHANGARIO BIN QASIM TOWN KARACHI PROJECT CONTRACT NO. PK003-SS- 030-00 Piling Works for Boiler Area. LUCKY 1X660 MW COAL FIRED POWER PLANT DEH GHANGARIO BIN QASIM TOWN KARACHI PROJECT CONTRACT NO. PK003-SS- 030-01: Anchor Piles & Test Piles Works for Coal Yard Area. | Construction of 620 Piles of 750 mm diameter and 1,000 mm diameter with maximum depth of 26 meters. Total Drilling 12,839 meters. Carryout 34 PDA Tests and 187 PIT Tests. Total Steel Rebar 706 Tons. Construction of 8 Nos. Anchor Piles of 1000 mm diameter, 17 meters depth and 3 Nos. Test Piles of 760mm diameter, 17 meters depth. Total Drilling carried out 170 meters. Following pile tests were executed. a) 14 Nos. Low Strain Tests. b) 3 Nos. High Strain Tests. c) 3 Nos. Internal Force Tests using VVSG. d) 3 Nos. Compression Tests upto 1200 Tons. e) 3 Nos. Hozontal Tests upto 80 Tons. Total Steel Rebar 17 Tons. | SEPCO III Electric Power Construction Co. Limited/ Lucky Electric Power Company Limited. SEPCO III Electric Power Construction Co. Limited/ Lucky Electric Power Company Limited. | |
| | | 2020 | | |
| 458 | PILING AND ASSOCIATED WORKS AT WATER INTAKE SYSTEM AND ASH POND OF 2X660MW JAMSHORO SUPERCRITICAL COAL FIRED POWER PLANT | Construction of 18 Piles of 1200 mm diameter. Total Drilling 280.37 meters. 14 Piles from barges, off shore. Construction of pile caps totalling approximately 450 cubic meters of concrete. 400 cubic meters concreting for pile caps done over water (off shore) using hanging shuttering. | Jamshoro Power Co. Limited / Habib Rafiq (Pvt) Ltd. (HRL) | |
| 459 | LUCKY 1X660 MW COAL FIRED POWER PLANT DEH GHANGARIO BIN QASIM TOWN KARACHI PROJECT Contract No. PK003-SS-030-02: Piling Works for the Supplementary Agreement for 1000mm Pile Foundation and Contract No. PK003-SS-030-03 for 760mm Pile Foundation. | Construction of 60 Nos. Piles of 1000mm dia and 549 Nos. Piles of 760mm diameter Total Drilling 11,480 meters. | SEPCO III Electric Power Construction Co. Limited/ Lucky Electric Power Company Limited. | |
| 460 | LUCKY 1X660 MW COAL FIRED POWER PLANT DEH GHANGARIO BIN QASIM TOWN KARACHI Project CONTRACT NO. PK003-SS-090-00: Piling Works for Water Intake System | Construction of 379 Nos. Piles of 1000mm dia and Dilling 7,899.17 Meters. 81 Nos. Piles of 760mm dia and Drilling 3,474.06 Meters. Total Drilling 11,373.23 Meters. | SEPCO III Electric Power Construction Co. Limited/ Lucky Electric Power Co. Ltd. | |
| 461 | Installation for Conductor / Cellar Pipe and Installation of Well Point System in Badin Area (Sindh) | Installation of Conductor of 32" diameter upto 240 feet for oil wells 14 Nos. Total Conductors Installed 2,935 ft. | United Energy Pakistan Ltd., Bahria Complex, Moulvi Tamizuddin Khan Road, Karachi | |
| 462 | Geotechnical Investigation, Site Survey, Topographic Survey & Water Resources Investigation at main plant site Quantum Chemicals, Kalabagh, Mianwali | Work carried out included, reconnaissance survey of the site, collection of water samples, measurement of depth of water table, ERS (VES), lab analysis, report to cover hydrogeology of the project area. Construction of test bore into tubewell and pedestal around tubewell, 72 hrs pumping out test, compilation and submission of tubewell constrution and testing report, drilling of boreholes in overburden soils/rock by straight rotary method including SPT and UDS, constant head permeability tests, geological investigation report. | Quantum Chemicals Ltd. Lakson Square, Building No. 2, Sarwar Shaheed Road, Karachi | |

| Ser | Project Particulars | Description & Quantum | Clients |
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| No. | | of Works | |
| | , | | |
| | | 2021 | |
| 463 | Geophysical Survey & Geotechnical Investigation Works for Central Asia South Asia (CASA 1000) Project at Charsada, KPK, Pakistan | Drilling of 5 Nos. test boreholes in soil of 90m depth in PQ/HX & NX size including Geological Logging of soil and rock samples, installation PVC pipe (3" dia class D slotted), Grouting of PVC pipe after geophysical testing, collecting and testing soil samples (from 5m to 5.50m and 70m to 70.50m) for thermal resistivity and thermal capacity in soil. Laboratory testing to evaluate geotechnical properties. | FUGRO PAKISTAN BV, A 30-E, Mohammad Ali Cooperative Housing Society, Karachi |
| 464 | Geological and Geotechnical Investigation at Lower Spat Gah Hydro Power Plant, Dasu, Kohistan Distt. KPK | Drilling of 16 boreholes (PQ, HQ and NQ size) in overburden & in rock. Total drilling 626.5m including standard penetration tests, constant head tests, lugeon tests for permeability, collection of disturbed block samples from test pits, installation of piezometers and excavation of test pits 2.0x2.0m upto maximum 3.5m including back filling, ERT Survey to get seismic profile to check intersection location and width of fault zones. Factual and interpretative report for all investigations and final site investigation report in digital format including borehole logs at scale 1:100, test pit stratigaphies. | AFRY (Thailand) Ltd. Vanit II Bldg, 22nd Floor, 1126/2 New Petchburi Road, Makkasan, Rajchthewi, Bangkok 10400, THAILAND |
| 465 | GEOTECHNICAL & GEOLOGICAL Investigation of Cofferdam in Indus River bed at Diamer Basha Dam Project (Contract No. MW-1) Construction of Dam Part (Civil Works) and Tangir Hydropower Works | Geotechnical & Geological Investigation Works of Cofferdam in Indus River bed. Wireline Core Drilling 7 Holes, 371m (1,271 ft.) Sampling and Test including Hydrogeological tests (Water Injection Test 32 Nos., SPT/CPT 110 Nos., Water Pressure Test 8 Nos., Pumping Out Test 2 Nos. Geological Loggin and Test Report. | Power China-FWO JV. Office: HQ 491 Engineer Group, Col Arif Alam (Shaheed) Camp FWO Jutail, Gilgit - Pakistan |
| 466 | Geotechnical Investigation at Grey Cement Plant Line-IV at Maple Leaf Cement Factory Ltd., Iskanderabad, District: Mianwali | Geotechnical Investigation of 38 boreholes of 20-40m depth. Diameter of borehole 100mm for straight rotary drilling and 250mm for percussion boring method. Total Drilling: 552m (1,811 ft.). Also Core Drilling NQ, HQ, PQ size in bedrock upto minimum depth of 5m below rock strike level by using double/triple tube core barrel. Perform the SPTs 450 Nos., UDS 50 Nos., Water Pressure Tests 15 Nos., ERT Survey 3600m, ERS 20 Nos. and Downhole Seismic Survey 60m. | Maple Leaf Cement Factory Limited. 42-Lawrance Road, Lahore |
| 467 | Piling/Test Piling Works in Rock at Grey Cement Plant Line-IV at Maple Leaf Cement Factory Ltd., Iskanderabad, District: Mianwali | Piling/Test Piling Works in Rock Drilling/Boring Piles Dia 800mm, Depth 20m (20m), Pile Dia 1200mm, Depth 20m & 30m (50m) and Piles Dia 1500mm, Depth 30m (30m). Total Drilling: 100m (328 ft.). Fabrication and placing reinforcement steel cages (24.1 M/Ton). Also performed static loading tests of 30,000kN (3000 Tons), 160,000kN (1600 Tons) and 24,000kN (2400 Tons) | Maple Leaf Cement Factory Limited. 42-Lawrance Road, Lahore |

Tons) and 24,000kN (2400 Tons).

Consultants

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|--|--|--|-------------|
| | | 2021 | | |
| 468 | Piling Works for 7,000 M/Tons of Clinker Production at Cement Plant Line-IV at Maple Leaf Cement Factory Ltd., Iskanderabad, District: Mianwali | Construction of 109 Piles in Limestone of dia 1500mm upto 30m and dia 1200mm upto 20m and dia 800mm upto 30m depth. Total Drilling: 2,530m (8,298 ft.). Concrete Pouring 3,450 cu.m in Pre-Drilled Piles including all arrangements of mixing shifting and pouring. Carrying out Pile Testing: Low Strain Method for Integrity Investigation of Concrete Piles/Sonic Integrity Test (SIT) on 109 each working piles. | Maple Leaf Cement Factory Limited. 42-Lawrance Road, Lahore | |
| | | 2022 | | |
| 469 | Gharibwal Cement Factory, Ismaiwali, Tehsil: Pind Dadan Khan, District: Chakwal | Test Pile and Pile Dynamic Analysis (2 Nos.) | Gharibwal Cement Ltd., Pace Tower, H-27, 1st Floor, College Road, Gulber-II, Lahore | |
| 470 | 1200mm Dia in Rock & Empty Piles) for Construction of Permanent Bridge on | | | |
| 471 | | Geological and Geotechnical Investigation of 43 Boreholes upto 15m depth. Diameter of Borehole NQ for straight rotary core drilling. Total drilling 516m (1,693 ft.). Perform DPT/CPT 537 Nos. and Excavation of Test Pile (4mx4mx4m) 35 Nos. | Zhongshui Beifang Engineering Services Pakistan (SMC-Private) Limited., P. R. China | |
| 473 | Geotechnical Investigation and Shaft Excavation at Camp Area of Suki Kinari Hydropower Project | | Engineering Services Pakistan (SMC-Private) | |
| 474 | Micro Piling Works of 22 Duplex 10 Marla Villas at Eighteen Project | Design and Build of Micro Piling Works to Stabilize Existing Foundation of the 22 Duplex 10 Marla Villas of Cluster-E at Eighteen. Micro Piles = 880 Nos. | 3rd Floor, Razia Sharif Plaza, Blue Area, | |

Total Drilling = 13,414m (44,000 ft.)

Hydropower Project

475 Geotechnical Investigation for Borehole Drilling for Geotechnical Investigation of 3 Zhongshui Beifang Drilling at Landslide of Balakot Boreholes upto 50m depth. Diameter of Engineering Services Borehole NQ size for straight rotary core Pakistan (SMC-Private) drilling. Total Drilling 164m (538 ft.) Limited., P. R. China Performed DPT/CPT 40 Nos. Page 129

| Ser No. | Project Particulars | Description & Quantum of Works | Clients | Consultants |
|------------|---|--|---------------------------|-------------|
| 476 | Installation of Test Piles using RR and PLT using Kentledge | Pile Load Test on Index Pile No. IP-1 (1800 Tons) and IP-2 (2250 Tons) at Plot No. RP-05, Crescent Bay, Phase-VIII (Ext.), DHA Karachi for EMAAR Group | Construction (Pvt.) Ltd., | |
| 477 | Pile Load Test at Pakistan Engineering Council (PEC) Building, Islamabad | Execution of Load Test 2 Nos. and Provision of Blocks 240 Tons (60 Nos.) for Pile Load Test at Pakistan Engineering Council (PEC) Building, Islamabad | | |