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1 ROLLING MILLS

Sl. No.	Customer	Equipment / System	Year of Completion
1.	KYCR, Bangladesh	Single Stand Reversing Mill Complete Electrics & Automation for the mill.	2002
2.	Salem Steel Plant Salem	Sendzimir Mill Automation system	2000
3.	ISSCO, Burnpur	Bar & Rod Mill Cobble & crop shear controls	2000
4.	Durgapur Steel Plant	Bar & Rod Mill Shear Drive motor & control	1999
5.	Bhilai Steel Plant, Bhilai	Digital drives for Roller Table 2sets, 750 Amps, 250 volts, Thyristor Converter with digital regulator.	1999
6.	Shamon Ispat Ltd., # Mecon Ranchi	4 Hi-Cold Rolling Mill Hydraulic AGC	1999
7.	Bhilai Steel Plant, Bhilai	Merchant Mill 75 Amps. Field converters for Stands 4, 7 & 11.	1997
8.	Bhilai Steel Plant, Bhilai	Merchant Mill 2 nos. Thyristor Converters for 160 KW Pusher drives for pre-heating furnace.	1997
9.	Indian Ordnance Factory, Ambernath	Cold Rolling Mill # Mecon 10 sets, 40 A to 2660A Thyristor Converters for breakdown mill, 4 sets. 178A to 1640A Thyristor Converters for finishing mill. 3 Nos. 900 KVA to 1250 KVA converter transformers, switchgears, PLCs and alarm annunciation.	1997
10.	Salem Steel Plant Salem	Steckel Mill Crop shear optimization 1 no. Vision control system	1996
11.	Bhilai Steel Plant, Bhilai	Rail & Structural Mill 1 set of Addl. Thyristor Bridges for augmentation of Roughing Stand Thyristor Converter from 4 MW to 7 MW including HSDCCB and DC motors Reactor.	1995
12.	Rourkela Steel Plant, Rourkela	Tandem Cold Mill MAR replacement by Thyristor Converters of rating 675 Amps, 460 Volts (reversible) for screw down drive motors rated 55 Kw/110 Kw for all five Stands.	1995
13.	Rourkela Steel Plant, Rourkela	Tandem Cold Mill MAR replacement by Thyristor Converters of 5400 Amps. Reversible with high-speed breakers for Stand 1 & 2.	1995



Sl. No.	Customer	Equipment / System	Year of Completion
14.	Bhilai Steel Plant, Bhilai	Rail & Structural Mill MG set replacement for Roughing stand - 4000 K.W. Intermediate stand - 4000 KW, Finishing Stand - 1800 KW by Thyristor Converters comprising of 2 nos. 12 pulse, 14 KA, Reversible and 1 no. 6 pulse, 6 KA, Reversible converters, Transformers, High speed breakers, reactors, ventilation system, DAS and civil works.	1995
15.	Bhilai Steel Plant, Bhilai	Blooming /Mill /Rail & Structural Mill Supply of equipment for 132 KV Switchyard & MSDS-1, civil work etc.	1995
16.	Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Project, Visakhapatnam	Medium Merchant and Structural Mill 104 Nos. 3.5 KW to 1700 KW DC motors, 90 Nos. Thyristor Converters of 95A to 2450A, with tension controls 27 Nos. thyristor transformers of 725 KVA to 2920 KVA, programmable logic controllers, process control computers, CCTVs, inter-communications, UPS Systems, Isolators, PCC's, MCC's, Reactors, Air Conditioning equipment, fire detection/alarm system etc.	1995
17.	Rajinder Steels through ABIL	Hot Strip Mill 6 sets, 4800 A. 1100V Thyristor Converters for finishing stands, 1 set, 7200 A, 1000 V Thyristor Converter for roughing mill and 1 set, 2250 A. 500 V Thyristor Converter for vertical edger. DC motors reactors, Busbars & Cabling	1995
18.	Bokaro Steel Plant Bokaro	Modernization of Coiler & Shear Drive of HSM 3 sets 800 A. Thyristor Converters with DS286 DC motors regulation for coiler drive, 1 set, 1200 A, Thyristor Converters with DS286 DC regulation for shear drive, DIPAS automation system for automatic head and tail end cutting & PC based MMI system.	1995.
19.	Bokaro Steel Plant Bokaro	GTO-IMD Systems for Scarfing Exhauster Drive of Slabbing Mill 1 set, 800 KW, 6.6 KV GTO inverter, 1 No. 1200 KVA, 11 KV/2.6 KV transformer, 1 no. 1100 KVA, 2.3/6.82 KVA transformer, DC link reactors, switch gears, mimic panel and PLC.	1995
20.	Bokaro Steel Plant Bokaro	Hot Strip Mill Crop shear optimization 1 No. Vision System & 1 No. Optimization Computer.	1995



Sl. No.	Customer	Equipment / System	Year of Completion
21.	Salem Steel Plant. Salem	Hot Rolling Steckel Mill 6 Nos. 900 KW to 4500 KW DC motors, 6 Nos., 160 KW to 750 KW DC motors, 263 Nos., 0.5KW to 220 KW mill duty DC motors. 3 Nos. 3.3 KV, 850 KW AC Motors. 280 sets Thyristor Converter panels with max. current rating of 650 KVA for Roller Table Motors. HT/LT switchgear equipments. PLC's, Pulpits, Ventilation and air conditioning system, cabling.	1995
22.	Rourkela Steel Plant, Rourkela	Tandem Cold Mill MAR replacement by 4 Nos. Thyristor Converters of rating 5400 Amps, 800 Volts (reversible) for Stand 1 & 2, DC motors rated 2240 KW and 1860 KW respectively including microprocessor based superimposed controls for mill interlocks and master reference generation.	1994
23.	Bokaro Steel Plant Bokaro	Hot Strip Mill MAR replacement by Thyristor Converters for shear drive of 1700 KW and 3 Nos. coiler drives of 1000 KW each. 1 No. 12 KA, 630 Volts and 3 Nos. 8 KA, 630 Volts Thyristor Converters with microprocessor based digital regulation system and VME based automation system for shear drive.	1994
24.	Bhilai Steel Plant, Bhilai	Blooming Mill 8 MW Main Drive MG set replacement 2 sets, 20.5 KA, 930 V DC Thyristor Converters with PLC, 2 Nos. 12.25 MVA, 11 KV/875-875V Transformers. 4 Nos 11 KV, 1250 A VCB Panels, 4 Nos., 5000 A High speed circuit breakers. 4 Nos., 4600 A DC reactors, Busbars & Cabling	1994
25.	Bhilai Steel Plant, Bhilai	Rail & Structural Mill Intermediate stand Thyristor Converter upgradation to 7 MW from 4 MW 2 Nos. 4100 A Thyristor converters. 2 Nos. 4020 A DC motors reactors, 3 Nos. 6000 A DC motors High speed circuit breakers. PLC, fire detection alarm equipment.	1994



Sl. No.	Customer	Equipment / System	Year of Completion
26.	Rourkela Steel Plant, Rourkela	1700mm Hot Strip Mill MG set replacement and automation for Roughing Mill stand nos. 1 & 2 2 sets, 7 KA Thyristor Converters for roughing stand No.1, 1 set 10 KA Thyristor Converters for roughing stand No.2, 1 set, 4 KA Thyristor Converters for edger No.2, 19 sets Thyristor Converters with current ratings from 30 A to 580 A for auxiliary dries, associated converter transformers and switchgears. PLCs for drive interlocking and mill automation functions involving rolling scheduled storage, automatic roll positioning & reversal, material tracking etc., PC based MMI systems with associated civil works and a/c.	1993
27.	Rourkela Steel Plant, Rourkela	Hot Strip Mill - Run out Table 9 nos. 468 KVA, VVVF inverter with 3 Nos. HT transformers. Hot Strip Mill - 4th & 5th Down coiler 6 Nos. 230 KW - 650 KW DC Motors, 8 Nos. 5 KW - 39 KW DC motors, matching Thyristor Converters, 30 Nos. LT AC motors, MCCs, PCCs, 3 Nos. 468 KVA VVVF inverters programmable logic controllers, room ventilation system, battery & battery charger.	1991
28.	Rourkela Steel Plant, Rourkela	Tandem Cold Mill MAR replacement by Thyristor Converters for Stands 3 & 4 - 5sets of Thyristor Converters of rating 5400 Amps (reversible) with high-speed breakers.	1990
29.	Bokaro Steel Plant Bokaro	Hot Strip Mill MAR replacement by thyristor Converters (reversible) for 2 x 5000 KW, 750 V DC motors for 7 Nos. finishing stands.	1990
30.	Indian Iron & Steel Co. Ltd., Burnpur	Bar & Rod Mill MAR replacement by 2 nos. 800 KW Thyristor Converters for auxiliary drives.	1990
31.	Bhilai Steel Plant, Bhilai	Billet Mill MAR replacement by Thyristor Converters for 1300 KW DC drives for 11 stands and Data Acquisition System.	1990
32.	Mukand Iron & Steel Works Ltd., Bombay	Wire Rod Mill & Bar Mill 5 sets of Thyristor Converters of 3000 Amps, non-reversible along with thyristor transformers. 2 sets of thyristor converters of 600 Amps. non - reversible along with thyristor transformers.	1989



Sl. No.	Customer	Equipment / System	Year of Completion
33.	Bokaro Steel Plant Bokaro	Hot Strip Mill MAR replacement for 13 Nos. Auxiliary DC drives by 8 KA Thyristor Converters	1989
34.	Alloy Steel plant, Durgapur	Billet Mill MG set replacement for Manipulator Drives by 4 nos. 67 KW DC motors with associated Thyristor Converters and HT transformer.	1989
35.	Durgapur Steel Plant, Durgapur	Blooming Mill 2 nos. 300 KW & 1 no. 37.5 KW DC motors with Thyristor Converters	1989
36.	Sunflag Iron & Steel Cold Mill. Ltd., Bhandara, Nagpur	Bar & Section Mill Main stand 18 Nos. 250-600 KW DC motors, Auxiliary drives 11 nos. 2.5 KW-65 KW DC motors, 1 No. 235 KW DC motor for shear drive, matching Thyristor Converters, 6 Nos. of 32-120 KVA variable voltage variable frequency inverters for roller table motors, programmable logic controllers, 3 Nos. Real time process computers for mill control, minimum tension control and cooling bed control along with CCTV & inter-communication system.	1989
37.	Rourkela Steel Plant, Rourkela	Tandem Cold Mill MAR replacement by Thyristor Converters for stand 5 & Reel. 4 sets of Thyristor Converters of rating 5400 Amps (reversible) with high speed breakers.	1989
38.	Bhilai Steel Plant, Bhilai	Merchant Mill MAR replacement by Thyristor Converters for 1300 KW DC drives for 12 stands and Data Acquisition System.	1989
39.	Bhilai Steel Plant, Bhilai	Wire Rod Mill MAR replacement by Thyristor Converters for 4 Nos. 1300 KW DC motors of roughing stands.	1988
40.	Pennar Steel Ltd., Hyderabad	4-Hi Reversible Mill Pay off Reel - 1 No. 105 KW DC Motor, Main Stand - 750 KW DC Motor, Delivery Tension Reel & Entry Tension Reel - each 2x210 KW DC motor, matching Thyristor Converters, Automatic gauge control, Auto slowdown & programmable logic controllers for mill control.	1987
41.	Bokaro Steel Plant Bokaro	Hot Strip Mill MAR replacement for 8 Nos. Aux. DC Drive with 8 KA Thyristor Converter.	1986
42.	Bhilai Steel Plant, Bhilai	Wire Rod Mill 2 Nos. 1300 KW DC Motors of Roughening Stands.	1986



Sl. No.	Customer	Equipment / System	Year of Completion
43.	Bhilai Steel Plant, Bhilai	Wire Rod Mill MAR replacement by Thyristor Converters and controls for : - 1 No. 1300 KW DC Motor of Roughing Stand - 1 No. 700 KW DC Motor of Intermediate Stand - 4 Nos. 300 KW DC Motor of Finishing Stand	1986
44.	Bokaro Steel Plant Bokaro	Vertical Rolls of Main Stands - Slabbing Mill MAR replacement - 2 Nos. 10 KA, fully reversible converter with DSS connection for 2 Nos. 1850 KW DC Motors. Shear Drive - Slabbing Mill 2 Nos. 15 KA, fully reversible converter with DSS connection for 2 Nos. 2000 KW DC motors.	1986
45.	Bokaro Steel Plant Bokaro	Horizontal Rolls of Main Stands - Slabbing Mill MAR replacement - 2 Nos. 30 KA, fully reversible converter in DSS connection with existing Inter Phase Transformer for 2 Nos. 6700 KW, 70 V DC motor with new regulation equipment.	1986
46.	Tata Iron & Steel Co.Ltd., Jamshedpur	Bar & Rod Mill Main 17 Nos. 200 KW - 1950 KW, Aux. 15 Nos. 15 KW - 150 KW DC motors.	1986
47.	Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Project, Visakhapatnam	Wire Rod Mill Main - 25 Nos. 700 KW - 2000 KW DC motors , Aux - 68 Nos. 12 KW - 75 KW DC motors, 171 Nos. 2.2 KW - 200 KW AC Motors, Associated Thyristor Converter, with programmable logic controller and associated controls, Process & Production Computers and closed circuit TV, Intercom, MCC/PCC, fire fighting system.	1986
48.	Bhilai Steel Plant, Bhilai	Hammer Crusher in Merchant Mill 2 Nos. 500 KW 6.6 KV SCIM	1985
49.	Bhilai Steel Plant, Bhilai	Main drive Vertical Stand in Merchant Mill 1 No. 800 KW DC Vertical Motor	1984
50.	Bhilai Steel Plant, Bhilai	Blooming Mill M G Set replacement by 2000 Amp. 710 V DC closed loop Thyristor Converter for 2 nos. 300 KW DC motor.	1984
51.	Modi Steels Ltd., Modinagar, U.P.	Finishing Block Drives for wire Rod Mill 2 Nos. 900/900 KW, 800/1200 RPM, 750 V DC motors Tandem coupled, with Thyristor Converters of 2550 Amp. rating for each motor and associated closed loop speed regulation system inclusive of loop transducer and its regulation controls.	1984



Sl. No.	Customer	Equipment / System	Year of Completion
52.	Nagarjuna Steel Ltd., Hyderabad	4-Hi Cold Reversing & Skin Pass Mill 1 No. 750 KW, 4 Nos. 250 KW, 1 No. 125 KW & 2 Nos. 22-44 KW DC motors, Associated Thyristor Converters with Programmable logic controller, Automatic gauge control, Auto slowdown, thickness gauge, load cells and Hydraulic Clutch Coupling	1983
53.	Nagarjuna Coated tubes Ltd., Hyderabad	Coated Tube Mill 3 Nos. 60 KW DC motors with closed loop Thyristor Converters.	1982
54.	Bhilai Steel Plant, Bhilai	Rail & Structural Mill 1 No. 2800A, 375V Reversible Thyristor Converter and associated controls for manipulator, screw down for roller cable drives.	1982
55.	Mukand Iron & Steel Works Ltd., Bombay	Wire & Rod Mill Finishing Block 2 Nos. 1500 KW 5 Nos. 5 to 70 KW DC motors, 8 Nos. Thyristor Converters and associated controls. MAR replacement for intermediate stands - 5 Nos. Thyristor Converters and associated controls.	1982
56.	Bokaro Steel Plant, Bokaro	Single Stand Temper Mill - CRM II Complex Pay off reel - 2 Nos. 530 KW DC motors, Main Stand - 2 Nos. 672 KW DC motors, Tension Reel - 1 No. 2x930 KW DC motor, Delivery Tension Bridle - Top Roll - 1 No. 2x242 KW DC motor, Bottom Roll - 1No. 242 KW DC motor, Auxiliary AC & DC drives, Hydraulic Push-up control, Skew control, Constant roll force control, Extension control, Programmable logic controllers.	1982
57.	Bokaro Steel Plant, Bokaro	Twin Stand Temper Mill/DCR Mill - CRM II Complex Pay off Reel - 2 Nos. 530 KW DC motors, Main Stand - 4 Nos. 746 KW DC motors, Tension Reel - 1 No. 2 x 930 KW DC motor, Entry & Delivery Tension Slides, Top Roll - 2 Nos. 2x242 KW DC motors, Bottom Roll - 2 Nos. 242 KW DC motors, Aux. AC & DC Drives, Thyristor Converters, Automatic Gauge Control for Stand 1; Hydraulic push up control, Skew control, Constant roll force control, Extension control, Data logging, Programmable logic controllers.	1982



Sl. No.	Customer	Equipment / System	Year of Completion
58.	Bokaro Steel Plant, Bokaro	Five Stand Tandem Mill - CRM II Complex Pay off Reel - 2 Nos. 530 KW DC motors, Main Stand - 5 Nos. 2 x 2425 KW DC motors, Tension Reel - 1 No. 3 x 930 KW DC motor, Auxiliary AC & DC Drives, Thyristor Converters, Hydraulic AGC System, Regulation computer, Optimization computer with Data logging facilities. Tension & roll force controls, Programmable logic controllers.	1982
59.	Rourkela Steel Plant, Rourkela	Screw down of Roughing Stand - CRGO Project Supply, erection and commissioning of regulation equipment.	1981
60.	Rourkela Steel Plant, Rourkela	4-Hi Cold Reversing Mill - CRGO Project 1 No. 2x1685 KW DC motors, 2 Nos. 1125 KW DC motors, 1 No. 400 KW DC motor, Associated Thyristor Converters with Programmable logic controller, Hydraulic Automatic gauge control, Auto slowdown, Strip Shape Indication & Control and Fault Printout System.	1981
61.	Indore Steel & Iron Mills, Indore	Re-Rolling Mills 1 No. 750 KW DC motor	1981
62.	Bhilai Steel Plant Bhilai	4-Hi Plate Mill Main - 4 Nos. 4300 to 6000 KW DC motors, Aux - 1435 Nos. 6.8 to 40 KW DC motors, Armature control by M.G. Set. All other drive controls by Thyristor Converters	1981
63.	Salem Steel Plant, Salem	2 - Hi Skin Pass Mill Main - 5 Nos. 450 KW DC motors, Aux - 3 Nos. 11.2 KW DC motors, Thyristor Converters, extension control, Roll Force control and Tension Control.	1981
64.	Rourkela Steel Plant, Rourkela	Modernization and Revamping of Hot Strip Mill MAR replacement by thyristor converters for main stand 6 Nos. 3700 KW DC motors. AUX. - 17 Nos. 2.8 to 317 KW DC motors, associated Thyristor Converters, 2 Nos. 1119 KW AC Motors, Hydraulic AGC, Load Cell, Width Gauge, Isotope Thickness Gauge and Zoom Rolling Control.	1980
65.	Mishra Dhatu Nigam Ltd. Hyderabad	Bar Mill Main - 1No. 500 KW DC motor, Thyristor Converters	1980
66.	Mishra Dhatu Nigam Ltd. Hyderabad	Wire Rod Mill Main - 1 No. 400 KW DC motor, Aux - 5 Nos. 7.5 to 37 KW DC & AC motors, Aux. drives, Thyristor Converters, Photocell controlled coiler.	1980



Sl. No.	Customer	Equipment / System	Year of Completion
67.	Mishra Dhatu Nigam Ltd., Hyderabad	4-Hi Cold Mill Main - 1 No. 100 KW DC motor, Aux - 1 No. 28 KW DC motor, Thyristor Converters, Tension Control with tensiometer.	1980
68.	Mishra Dhatu Nigam Ltd. Hyderabad	Hot Strip & Hot Sheet Mills Main - 1 No. 1000 KW DC motor, Aux - 7 Nos. 2.2 to 9 KW DC motors, 35 Nos. 0.75 to 55 KW AC motors, Thyristor Converters	1980
69.	Steel Strips Ltd., Chandigarh	4-Hi/2-Hi Cold Mill Main - 1 No. 300 KW DC motor, Aux - 3 Nos. 5.6 to 112 KW DC motors, Thyristor Converters, Roll force indication, contact gauges, wrap counter and extensiometer.	1979
70.	Guest Keen Williams Ltd. Calcutta	Modernization of 4-Hi Hot Reversing Billet Mill Main - 1 No. 750 KW DC motor, Aux - 4 Nos. 11 to 22 KW DC motors, Thyristor Converters	1979
71.	Seamless Steel tube Project, BHEL, Tiruchirapalli	Hot Mill Main - 13 Nos. 125 to 2000 KW DC motors, 9 Nos. 110 to 1270 KW AC motors, 3 Nos., 12 to 20 KW DC motors, 365 Nos. 0.15 to 37 KW AC motors, Thyristor Converters	1979
72.	Seamless Steel tube Project, BHEL, Tiruchirapalli	Cold Mill Main - 4 No. 125 to 315 KW DC motors, 4 Nos. 26 to 68 KW AC motors, Aux - 1 No. 11 KW DC motor, 78 Nos. 0.5 to 55 KW AC motors, Thyristor Converters	1978
73.	Nagarjuna Steels Ltd. Hyderabad	2-Hi/4-Hi Cold Mill Main - 1 No. 300 KW DC motor, Aux - 3 Nos. 30 to 112 KW DC motors, Thyristor Converters, Roll force indication, contact gauge, wrap counter & extensiometer.	1977
74.	Ahmedabad Advance Mills Navsari	2-Hi/4-Hi Cold Mill Main - 1 No. 640 KW DC motor, Aux - 4 Nos. 170 KW DC motors, Ward Leonard Drive system with closed loop regulation incorporating cascade connected magnetic amplifiers and amplidyne, Roll force indication and contact gauge.	1976
75.	Heavy Engineering Corporation, Ranchi	Bar & Billet Mill Main - 1 No. 875 KW DC motor, Aux - 6 Nos. 32 KW DC motors 100 Nos. 5.6 KW AC motors, Main Armature - MG set, Field - Thyristor Converters and associated control for Hot Saw, bloom shear & AC Drives.	1970

2 PROCESS LINES

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Bokaro Steel Plant Bokaro	Galvanizing Line - CRM II Complex 68 Nos. 2.25 to 262.5 KW DC motors, Closed loop Thyristor Control, Data logging, PLC & Special Controls	1983
2.	Bokaro Steel Plant Bokaro	Roll Forming Line - CRM II Complex 11 Nos. 3.75 to 112.5 KW DC motors , Closed loop Thyristor Control, Data logging, PLC & Special Controls	1983
3.	Bokaro Steel Plant Bokaro	Galvanized Shear Line - CRM II Complex 14 Nos. 7.5 to 75 KW DC motors , Closed loop Thyristor Control, Data logging, PLC & Special Controls	1983
4.	Bokaro Steel Plant Bokaro	Electrolytic Cleaning Line - CRM II Complex 47 Nos. 3.75 to 150 KW DC motors , Closed loop Thyristor Control, Data logging, PLC & Special Controls	1983
5.	Bokaro Steel Plant Bokaro	Cleaning & Annealing Line - CRM II Complex 111 Nos. 2.25 to 112.5 KW DC motors , Closed loop Thyristor Control, Data logging, PLC & Special Controls	1983
6.	Bokaro Steel Plant Bokaro	Pickling Line - CRM II Complex 55 Nos. 3.75 to 600 KW DC motors , Closed loop Thyristor Control, Data logging, PLC & Special Controls	1982
7.	Bokaro Steel Plant Bokaro	3 Nos. Cold Rolled Shear Lines 57 Nos. 7.5 to 112.5 KW DC motors , Closed loop Thyristor Control, PLC & Special Controls	1982
8.	Bokaro Steel Plant Bokaro	2 Nos. side Trimming & Slitting Lines - CRM II Complex 14 Nos. 11.25 to 375 KW DC motors , Closed loop Thyristor Control, PLC & Special Controls	1982
9.	Bokaro Steel Plant Bokaro	Coil Handling Equipment - CRM II Complex 3 Nos. 7.5 to 11.25 KW DC motors, Thyristor Converters.	1982
10.	Salem Steel Plant, Salem	Annealing & Pickling Lines - 1&2 87 Nos. 0.5 KW to 150 KW DC motors, 189 Nos. 0.5 to 220 KW AC Motors, Closed Loop Thyristor Controls & Special Controls.	1981
11.	Rourkela Steel Plant, Rourkela	Carlite Line - CRGO Project 39 Nos. 11 to 74 KW DC motors, 73 Nos. 0.37 to 30 KW AC Motors, Closed Loop Thyristor Control & Special Controls.	1981
12.	Rourkela Steel Plant, Rourkela	Annealing & Pickling Line- CRGO Project 20 Nos. 11 to 150 KW DC motors, 98 Nos. 0.37 to 93.25 KW AC Motors, Closed Loop Thyristor Control & Special Controls.	1981



Sl. No.	Customer	Equipment / System	Year of Completion
13.	Rourkela Steel Plant, Rourkela	Decarburising Line - CRGO Project 30 Nos. 11 to 104 KW DC motors, 61 Nos. 0.75 to 45 KW AC Motors, Closed Loop Thyristor Control & Special Controls.	1981
14.	Rourkela Steel Plant, Rourkela	Tandem Annealing Line - CRGO Project 20 Nos. 11 to 104 KW DC motors, 49 Nos. 0.37 to 37.5 KW AC Motors, Closed Loop Thyristor Control & Special Controls.	1981
15.	Rourkela Steel Plant, Rourkela	2-Slitting Lines - CRGO Project 8 Nos. 11 to 112 KW DC motors, Closed Loop Thyristor Control & Special Controls.	1981
16.	Rourkela Steel Plant, Rourkela	2-Side Trimming Lines - CRGO Project 8 Nos. 11 to 186 KW DC motors, Closed Loop Thyristor Control & Special Controls.	1981
17.	Rourkela Steel Plant, Rourkela	Cut-to-length Line - CRGO Project 5 Nos. 11 KW DC motors, Closed Loop Thyristor Control & Special Controls.	1981
18.	Tinplate Co.of India Ltd., Jamshedpur	Electrolytic Tinning-cum-Chrome Plating Line 80 Nos. 1.5 to 75 KW DC motors, Closed Loop Thyristor Control & Special Controls.	1978



3 STEEL MAKING

Sl. No.	Customer	Equipment / System	Year of Completion
1.	KMCL, Duburi	Coke Oven Complex Complete Electrics and Automation	UE
2.	NINL, Duburi	Blast Furnace Complete Electrics and Automation	2001
3.	SMS, Germany	Caster - IMIL Software Engineering for Caster computer	1998
4.	Bhilai Steel Plant, Bhilai	Oxygen Plant Expansion MSDS-6 132 KV Substation equipment 30/50 MVA Transformers, SF-6 Circuit Breakers, Isolators, 11 KV Bus-ducts, 11 KV switchgear, emulsifier fire fighting system, earthing station, associated civil works.	1998
5.	Bhilai Steel Plant, Bhilai	Sinter Plant MSDS-4, 132 KV substation, 30/50 MVA Transformers, SF-6 circuit Breakers, Isolators, 11 KV bus-ducts, 11 KV switchgear, fire fighting, SCADA, associated civil works	1998
6.	Rourkela Steel Plant, Rourkela	Single Stand Slab Caster in SMS-I 15 Nos. DC motors & 7 Nos. AC motors upto 30 KW, 8 sets Thyristor Converters rating upto 200 A, 22 Nos. Roller Table AC Motors, associated switchgear equipments. Level-1 and Level-2 automation systems involving mould level control systems. Programmable logic controllers, DEIL Alpha Computer system MIM system. Electronic weighing system. Liquid steel temperature measurement system. Slab temperature measuring system and plant instrumentation.	1997
7.	Tata Iron & Steel Co. Ltd., Jamshedpur	Oxygen & Nitrogen Plant Compressors 2 Nos. 1700 KW, 6.3 KV SCIM.	1997
8.	Bhilai Steel Plant, Bhilai	Blast Furnace-5 2 nos. Thyristor Converters for 230 KW Skip Hoist drive.	1996
9.	Rourkela Steel Plant, Rourkela	192 Sq.Mt. Sinter Plant - II with installed capacity of 1.5 MT/Year 8 Nos. 11 KW to 450 KW DC motors, 54 Nos., 3 KW to 160 KW LT AC Motors, 8 Nos., 450 KW to 5720 KW HT AC Motors., 4 sets 60 A to 1750 A Thyristor Converter, Power distribution involving 11 Nos. 630 KVA to 8400 KVA transformers. HTLT switchgear, Automation involving distributed control system with MMI & PLCs for burn-through point control, ignition furnace control and sinter cooler speed control, electronic weighing system, Plant instrumentation, Plant-inter communication system, Illumination system. Fire fighting and Cabling	1996
10.	Rashtriya Ispat Nigam Ltd., Visakhapatnam	Thyristor Converter for Transfer CAR No.-4 1 set, 1000A, 230 V reversible Thyristor Converter, DC reactor and high speed DCCB, Reactors	1996



Sl. No.	Customer	Equipment / System	Year of Completion
11.	Bhilai Steel Plant, Bhilai	Electrics for straightening Machine 2set, 417 Amps, 400V, Thyristor Converter with digital regulator with class-1 protection.	1996
12.	Bokaro Steel Plant Bokaro	LD Converter Variable speed AC drive system consisting of Thyristor Converters and inverters (GTO), HT switchgear & transformers, DC smoothening reactors, microprocessor based regulation system, PLC & mimic panels for One No. 800 KW Scarfing exhaustor drive.	1996
13.	Bhilai Steel Plant, Bhilai	Continuous Caster 1 No. 100 Amps thyristor converter for Dummy Bar Chain drive and 1 No. 320 Amps thyristor converter for Mould oscillator drive.	1995
14.	Bhilai Steel Plant, Bhilai	LD Converters Variable speed AC drive system consisting of thyristor converters and inverters (GTO), HT switchgear & transformers, high current DC line reactors, microprocessor based regulation system for One No. 1250 KW ID fan drive & One No. 600 KW reheater furnace blower drive.	1994
15.	Bokaro Steel Plant Bokaro	GTO-IMD Systems for Gas storage fan of SMS-II 1 set, 1000 KW, 6.6 KV GTO inverter, 1 No. 1500 KVA, 6.6 KV/2.6 KV transformer, 1 No. 1300 KVA, 2.3/6.82 KV transformer. DC Link reactors. Switchgears, mimic panel and PLC.	1994
16.	Bhilai Steel Plant, Bhilai	Blast Furnace-6 Thyristor Converters for 2 Nos. 230 KW DC motors for skip hoist drive.	1990
17.	Bhilai Steel Plant, Bhilai	Blast Furnace-6 Computers for process control and management information system, distributed digital control system, programmable logic controllers, data highway system for communication, Furnace instrumentation, software for optimization of stoves and burden distribution using mathematical model.	1990
18.	Bhilai Steel Plant, Bhilai	Blast Furnace-6 290 KW, 6.6KV SCIM, supervisory panel, vibration monitoring system & Controls for Fan motor.	1990
19.	Bokaro Steel Plant Bokaro	Conversion of BF-3 Bell top to Bell less top Programmable logic controllers for material charging.	1989
20.	Rashtriya Ispat Nigam Ltd., Visakhapatnam	Aux. Electrics for Sinter Plant 2 x 5600 KW, Synchronous motors, Static excitation system, 2 sets of MOCB each comprising of 3 breakers of 11 KV rating 15 MVA auto transformers and aux. controls for Sinter plant fan.	1989
21.	Tata Iron & Steel Co. Ltd., Jamshedpur	Sinter Plant 5300 KW SRIM with liquid rotor starter & control desks for exhaustor fan.	1988
22.	Bhilai Steel Plant, Bhilai	Blast Furnace-7 Software for optimization of burden distribution using mathematical model on PC-AT system.	1988



Sl. No.	Customer	Equipment / System	Year of Completion
23.	Bhilai Steel Plant, Bhilai	Blast Furnace-7 Programmable Logic Controller with interfacing for Process Computer for bell less top charging equipment.	1986
24.	Bhilai Steel Plant, Bhilai	Blast Furnace-7 4 sets of Thyristor Converters with associated control and change over pannels for skip hoist & top held drills.	1985
25.	Bhilai Steel Plant, Bhilai	Blast Furnace-7 2 Nos. PDP 11/44 computers, Programmable Controllers, Instrumentation, Controls, Mathematical model for Stores optimisation and complete system & application software.	1984
26.	Bhilai Steel Plant, Bhilai	Blast Furnace 2&7 13 sets of Open Type Motor Control Centres	1984
27.	Bokaro Steel Plant Bokaro	Steel Melting Shop No. 2 Exhauster Drive Motor 1 No. 1500/300 KW, 6.6 KV SCIM	1984
28.	Tata Iron & Steel Co. Ltd., Jamshedpur	Lime Kiln Plant 4 Nos. MDM 814, 2 Nos. MDM 812 DC motors	1983
29.	Tata Iron & Steel Co. Ltd., Jamshedpur	LD Converter Gas cleaning & flux changing mechanism. 8 Nos. 52 KW & 6 Nos. 112 KW DC motors, 14 Nos. Thyristor Converters, 2 Nos. 1850 KW, 6.6 KV SCIM and associated controls.	1982
30.	Bokaro Steel Plant Bokaro	Blast Furnace Pump Drive 1 No. 1100 KW, 11KV and 1 No. 400 KW, 6.6 KV SRIM & Controls	1982
31.	Durgapur Steel Plant, Durgapur	Constant DC Voltage Load Centre 3 Nos. 1000 KW, 460V Transformer Rectifier Sets.	1982
32.	Tata Iron & Steel Co. Ltd., Jamshedpur	Six-strand Continuous Casting Plant 12 Nos. 7.5 KW DC motors, 12 Nos. Thyristor Converters and associated controls.	1982
33.	Bokaro Steel Plant Bokaro	Two 2000 cu.m. Blast Furnace 2 Nos. 1.5 MW MG Sets, Ward-Leonard control system involving 470 control panels, 8 CVDC systems etc.	1981
34.	Bhilai Steel Plant, Bhilai	Oxygen Lance Raising & Lowering Mechanism 6 Nos. 28 KW DC motors, 6 Nos. Thyristor Converters	1981
35.	Bhilai Steel Plant, Bhilai	Two Radial Slab Casting Machines Transport & Finishing Lines 166 Nos. 9 to 40 KW DC motors, 137 Nos. 7 to 75 KW AC motors, 24 CVDC Sets, 33 Thyristor Converters of 32A to 1000A, 515 control panels/desk units etc.	1981
36.	Bokaro Steel Plant Bokaro	Sinter Plant Transformer Rectifier set for control & power supply.	1981
37.	Bhilai Steel Plant, Bhilai	LD Converter Tilting Mechanism and Hot Metal Transfer Cars 20 Nos. 28 to 68 KW DC motors, 6 Nos. 120 KW DC motors, 22 Thyristor Converters and associated control equipment etc.	1980



Sl. No.	Customer	Equipment / System	Year of Completion
38.	Bokaro Steel Plant Bokaro	Steel Ladle Transporting Cars for LD Converters 20 Nos. 28 KW DC motors, 10 Nos. 500A Thyristor Converters and assorted CVDC systems, control equipment et.	1980
39.	Bokaro Steel Plant Bokaro	Hot Metal Ladle Car Assorted control equipment.	1980
40.	Bokaro Steel Plant Bokaro	Hot Strip Mill Reheating Furnace Eight reversible Thyristor Converters controlled by programmed electronic logic/sequencing circuits. Ratings from 500A-2500A. Assorted control equipment.	1979
41.	Indian Iron & Steel Co.Ltd., Burnpur	Revamping of Blast Furnaces 1&2 93 KW DC motor of Skip Winch Drives CVDC system for speed control involving control panels and other control units.	1979
42.	Tata Iron & Steel Co. Ltd., Jamshedpur	Continuous Billet Casting Machine 3 Nos. 11 to 40 KW DC motors, 2 Nos.20 to 40 KW DC Generators, Ward leonard system of control, Thyristor excited generators under speed control.	1977
43.	Tata Iron & Steel Co. Ltd., Jamshedpur	Sinter Plant 18 Nos. 10 KW DC motors, Regulated auto-feed system of belt scales using 18 Thyristor Converters and load cell units.	1977

4 STATIC EXCITATION EQUIPMENT

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Bhilai Steel Plant, Bhilai	Oxygen Plant 2 sets of Static Excitation Equipment for 3150 KW, 11 KV Synchronous motors.	1996
2.	Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Project Visakhapatnam	Sinter Plant 2 nos. 5.6 MW synchronous motors with static excitation equipment & controls for sinter fans.	1996
3.	Bhilai Steel Plant, Bhilai	Sinter Plant II Static Excitation Unit for 2 MW, 6.6 KV Synchronous motor for Exhauster-3.	1995
4.	Rourkela Steel Plant, Rourkela	Oxygen Plant 2 nos. 4.2 MW, 11 KV, Synchronous motors with Static Excitation Equipment, PLC & Controls for air compressor.	1994
5.	Bhilai Steel Plant, Bhilai	Sinter Plant 2.4 MW, 6.6 KV Synchronous motor with static excitation system, vibration monitoring system, PLC & controls for exhauster 4.	1990
6.	Bokaro Steel Plant Bokaro	Oxygen Plant Synchronous motors of rating 9.5 MW & 3.1 MW with static excitation equipment & control for compressor	1988
7.	Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Project Visakhapatnam	Sinter Plant 2 Nos. 5.6 MW, solid cylindrical synchronous motor with Static Excitation Unit auto transformer starting scheme and associated controls for exhauster.	1986
8.	Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Project Visakhapatnam	Oxygen Plant Air compressor - 4 Nos. 11MW Sync. Motor with Static Excitation unit Auto transformer starting scheme and associated controls. Oxygen compressor - 6 Nos. 3.2 MW Sync. Motor with Static Excitation units and associated controls. Nitrogen compressor - 6 Nos. 2.4 MW SCIM with associated control. Refrigeration Unit - 6 sets of Load Break Switch, Motor protection panels.	1985
9.	Bhilai Steel Plant, Bhilai	Blast Furnace-7 2 Nos. 1400 KW 11 KV Sync. Motor with Static Excitation unit and associated controls for exhauster.	1984
10.	Bhilai Steel Plant, Bhilai	Sinter Plant 1 No. 1000 KW, 6.6 KV Sync. Motor with static excitation unit and assorted controls for exhauster drives.	1983
11.	Rourkela Steel Plant, Rourkela	Air Compressor Station 1 No. 3000 KW, 6.6 KV Sync. Motor with static excitation unit and assorted control units for auxiliary drives.	1982
12.	Bhilai Steel Plant, Bhilai	Central Exhaust Ventilation System for Concast Plant 3 Nos. 1.4 MW & 1 No. 1.7 MW Sync. Motors. 4 Nos. static excitation units for automatic power factor control & assorted control units for auxiliary drives.	1981



Sl. No.	Customer	Equipment / System	Year of Completion
13.	Bhilai Steel Plant, Bhilai	Air Compressor for Oxygen Plant 2 Nos. 12.5 MW Sync. Motors, 2 Nos. Static Excitation Units for automatic power factor control & associated control units for auxiliary drives.	1980



5 ALUMINIUM

Sl. No.	Customer	Equipment / System	Year of Completion
1.	National Aluminium Co. Ltd.,	220 KV Switch yard expansion 220 KV Sub station with cellular configuration including SCADA system for remote supervision and control.	2000
2.	Indian Aluminium Co. Hirakud	Aluminium Smelter 1 set 950 V, 16 KA water cooled Thyristor converter, 1No. 18.5 MVA /11 KV/ 815-815V OFWF transformer, HT & LT Switchgear, Control & Relay panel, Busbars & Cabling	1999
3.	Indian Aluminium Co. Ltd., Hirakud	Aluminium Smelter 132 KV Sub-Station Extension 30 MVA OFWF transformer, 4 Nos. 132 KW SF6 breakers, 12 Nos. 132 KV CTS, Lightning arrestors, 11 KV breaker, 132 & 11 KV isolators, structures, ASCR conductor system, cabling etc.	1998
4.	Indian Aluminium Co. Hirakud	Aluminium Smelter 1 set 900 V 16 KA Water cooled Thyristor Converters, 1 No. 16.5 MVA, 11KV/725-725V OFWF Transformer, HT & LT switchgears, control & relay panel. PLC, Busbars and Cabling.	1995
5.	Pennar Aluminium Company	Cold Rolling Mill 5 sets, 70 A to 2525 A Thyristor Converters, PC-based fault monitoring system, switchgears, UPS, Voice communication system and programmable logic controllers and mill automation software for Strip auto slow down at coil end Automation roll changing Pass line shifting Spindle positioning Torque reference /ramp generation/speed reference for drives and interfacing with strip gauge control, strip hardness control and presetting and recording computers of M/s Achenbach Germany through high speed SINEC HI bus.	1994
6.	Bharat Aluminium Co. Ltd. Korba.	Cold Rolling Mill Modernization Thyristor Converters, thyristor transformers, MCCs, PCCs, Control desks, Automation involving programmable logic controllers, Hydraulic AGC system, Auto-slow down system.	1993
7.	Indian Aluminium Co. Ltd., Hirakud	Aluminium smelter Replacement of mercury arc rectifier by 63.6 KA/ 820 V DC Thyristor Converter comprising of 6 sets of water cooled Thyristor Converters each rated for 10.6 KA/820 V DC , 6 sets of de-ionized water pumps and water to air heat exchangers and micro-processor based master control system.	1992
8.	Indian Aluminium Co. Ltd., Belur	Hot Sheet Mill Aux - 2 Nos. 65 KW to 200 KW DC motors, 20 Nos. 0.25 to 40 KW AC motors. Closed Loop Thyristor Converters.	1981
9.	Bharat Aluminium Co. Ltd. Korba.	4-Hi Hot Mill Main - 1 No. 4600 KW DC motor, Aux - 186 Nos. 5 KW to 850 KW DC motors, Main Armature control by MG Set (Sync. motor 9000 KW) & others by Thyristor Converters.	1979



Sl. No.	Customer	Equipment / System	Year of Completion
10.	Bharat Aluminium Co. Ltd. Korba.	4-Hi Cold Mill Main - 2 Nos. 3000 KW DC motors, Aux - 20 Nos. 5 KW to 2400 KW DC motors, Main Armature control by MG Set (Sync. motor 9000 KW) & others by Thyristor Converters.	1979
11.	Indian Aluminium Co. Ltd., Taloja	4-Hi Hot Mill Main - 2 Nos. 450 to 2250 KW DC motors , Closed Loop Thyristor Converters, Contact gauge and AGC.	1970
12.	Indian Aluminium Co. Ltd., Taloja	2-Hi Cold Mill Main - 1 No. 1875 KW DC motor, Aux - 2 Nos. 262 KW DC motors, Closed Loop Thyristor Converters.	1970



6 CEMENT

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Hira Cements / IDCOL Bardol, Bargarh (Orissa)	250 - 1600 KW, 11 Nos. HT Slip-ring motors, capacitors for PF improvement, Liquid rotor starters for the above and 181 Nos. LT Induction motors in the range 1.5 - 150 KW	1993
2.	Cement Corporation of Gujarat Ltd. Veraval Gujarat	1 No. Thyristor converter with associated controls for 500 /KW Kiln drive	1987
3.	JK Cements Nimbahara Rajasthan	2 Nos. 1250 KW & 1350 KW 3.3 KV SRIM with Controls & Capacitors 1 No. 1010 KW SRIM	1980
4.	Uttar Pradesh State Cement Corporation Limited Dalla Uttar Pradesh	1 No. 600 KW 415 KV SRIM with Controls	1980
5.	Uttar Pradesh State Cement Corporation Limited Dalla Uttar Pradesh	2 Nos. 450 KW 6.6 KV SRIM with Controls	1980
6.	Jaipur Udyog Mandal Jaipur Rajasthan	1 No. 1250 KW Sync. Induction Motor & Control	1980
7.	JK Cement Wuyan Kashmir	2 Nos. 1500 KW 6.6 KV Sync. Induction Motor with Control 2 Nos. 260 KW 6.6 KV SRIM & Controls	1980
8.	Uttar Pradesh State Cement Corporation Limited Kajrahat Chunar Project Uttar Pradesh	24 Nos. 250 KW - 1500 KW SRIM Motor & Controls	1979
9.	Madras Cements Limited Tulukkapatti Tamil Nadu	2 Nos. 1400 HP 3.3 KV 750 rpm SRIM & Controls 1 No. 1000 HP 3.3 KV SRIM with Controls & Capacitor Banks	1979
10.	Kesoram Cements Besant Nagar Works Madhya Pradesh	3 Nos 2000 KW, 3.3 KV Sync. Induction Motors and controls for mill drive along with auxiliary drives, Capacitors Control Panels for 3 Nos. 2000 HP Sync. Motors 335 KW SRIM with Controls	1979
11.	Tamil Nadu Cements Limited Ariyalur Tamil Nadu	3 Nos. 450 KW & 2 Nos. 315 KW 3.3 KV SRIM with Controls & Capacitors	1979
12.	JK Cements Nimbahara Rajasthan	1 No. 2000 HP 6.6 KV Sync. Motor & Controls 4 Nos. 320 KW 3.3 KV SRIM & Controls	1979



Sl. No.	Customer	Equipment / System	Year of Completion
13.	Uttar Pradesh State Cement Corporation Limited Dalla Uttar Pradesh	2 Nos. 750 KW 2 Nos. 439 KW 6.6 KV SRIM with Controls and Capacitor Banks	1979
14.	Cement Corporation of India Limited Rajban Himachal Pradesh	1 No. 168 KW 400 V SRIM with LF 1000	1978
15.	Cement Corporation of India Limited Rajban Himachal Pradesh	1 No. 385 KW 400 V SRIM with LF 2000	1978
16.	Cement Corporation of India Limited Adilabad Project Andhra Pradesh	24 Nos. 250 KW - 1500 KW SRIM Motor & Controls	1978
17.	Cement Corporation of India Limited Rajban Himachal Pradesh	2 Nos. 1600 HP 11 KV Sync. Motors with controls	1977
18.	Cement Corporation of India Limited Mandhar Works Madhya Pradesh	580 HP SRIM & Controls	1977
19.	Cement Corporation of India Limited Mandhar Works Madhya Pradesh	2 Nos. 1500 KW 11 KV SRIM & Controls	1977
20.	Associated Cement Companies Limited Bombay Maharashtra	1 No. 375 KW SRIM with Controls	1977
21.	Rohtas Industries Dalmianagar Bihar	2000 HP Sync. Motors & Controls	1976
22.	Madras Cements Limited Tulukkapatti Tamil Nadu	1 No. 1120 KW 11 KV 750 rpm SRIM & Controls	1976
23.	Associated Cement Companies Limited Bombay Maharashtra	2000 HP & 800 HP Sync. Motors & Controls	1973
24.	Century Cements Neora Maharashtra	6 Nos. 2000 HP Sync. Motors & Controls	1973
25.	Assam Cement Limited Cheerapunji	2 Nos. 2000 HP 11 KV SRIM & Controls	1971

7 PAPER

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Nepa Ltd. Nepanagar, Madhya Pradesh	Revamping of DC drives with Thyristor converters for paper machine No.1, 2.5 KW to 530 KW - 12 Nos. with transformers HT isolators, LT PCC and digital speed and draw measuring systems Power factor correction and harmonic fitter equipment	1989
2.	Hindustan Paper Corporation Nowgong & Cachar Project Assam	34 Nos. D.C. Motors, ratings 55 KW to 424 KW Tensiometers Ventilation Equipment	1983
3.	Hindustan Paper Corporation Kerala News Print Project News Print Nagar Kerala	3 Nos. 6500 HP Sync. Motors & Controls	1980
4.	Orient Paper Mills Brijirajnagar Orissa	320 KW MG Set with Thyristor Control	1979
5.	Orient Paper Mills Brijirajnagar Orissa	60 HP DC Motor & Thyristor Converter	1979
6.	Ballarpur Paper Mills Ballarpur Maharashtra	9 Nos. DC Motors 67-500 HP & Thyristor Converters for Sectional Drive of Paper Machine	1977
7.	Tribeni Tissues Calcutta West Bengal	1 No. 400 HP, 1 No.250 HP, 1 No. 20 HP & 1 No. 5 HP DC Motors and Thyristor Converters	1977
8.	India Paper & Pulp Company Calcutta West Bengal	450 HP DC Motor and Thyristor Converters	1976
9.	Nagaland Paper & Pulp Plant Nagaland	1 No. 600 HP & 1 No.400 HP Motors & Converters	1976
10.	JK Paper Mills Rayagada Orissa	2 Nos. 20 HP DC Motors, MG Set & Controls	1973
11.	West Coast Paper Mills Dandeli Karnataka	1 No. 470 HP and 2 Nos. 50 HP DC Motors & Thyristor Converters	1973
12.	JK Paper Mills Rayagada Orissa	2 Nos. 20 HP DC Motors, MG Set & Controls	1972
13.	Sirpur Paper Mills Sirpur Kagaz Nagar Andhra Pradesh	2 Nos. 20 HP & 1 No. 470 HP DC Motors and Thyristor Converters	1971



8 RUBBER

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Modi Rubber Limited Modinagar Uttar Pradesh	1100 KW SRIM 330 KW & 115 KW DC Motors & Converters	1983
2.	Bombay tyres International Limited Bombay Maharashtra	1100 KW SRIM 330 KW & 115 KW DC Motors & Converters	1983
3.	Modi Rubber Limited Modinagar Uttar Pradesh	180 KW DC Motor & Converters	1982
4.	Dunlop India Limited Calcutta West Bengal	110 KW SRIM & Controls	1979
5.	Alfred Herbert (India) Limited Bangalore Karnataka	2 Nos. 1200 HP SRIM & Controls	1977
6.	Ceat Tyres Bombay Maharashtra	120 and 225 HP SRIM and Controls	1974
7.	Premier tyres Limited Kalamassery Kerala	1500 HP SCIM and Controls	1973

9 MINING & MATERIAL HANDLING

Sl No.	Customer	Application	Equipment Involved	Year of Completion
1.	UCIL – Jaduguda	Mine Winder	Complete mechanical, electrical and civil winder room & foundation	2002
2.	NINL - Duburi Orissa	Electrics for Raw material handling plant	Complete electrics including transformers, switchgear, cables, PLC, automation etc.	2001
3.	BHEL Trichy	ASRS	Complete mechanical & electrical equipment & software.	2001
4.	BHEL Ranipet	ASRS	Complete mechanical & electrical equipment & software.	2001
5.	HGML – Hutti	Mine Winder	Complete mechanical, electrical and civil winder room & foundation	2000
6.	EPI / NEW DELHI	External coal handling system (ECHS) phase II of Tuticorn TPP of TNEB	Complete coal handling plant electrics	1999
7.	NLC Neyveli	Conveyer drive head control station	Skid mounted outdoor type drive head control station for 2x630 KW slipping induction motor control	1998
8.	EPI/ New Delhi	North Madras Coal handling plant	Complete CHP electrics	1997
9.	NCL, Singrauli	Open blast hole drills	2 nos. thy.conv.panels for open blast hole drills	1997
10.	NCL, Singrauli	Starting reactor for 15/90 dragline	One number starting reactor	1996
11.	SCCL, Kothagudam	Mine ventilation fan	1600 KW, Mine ventilation fan controls	1996
12.	SCCL/ Kothagudam	Ramagundam O/C Project	Electrics for Crusher, Spreader Tripper etc.	1995
13.	ECL/ Sonapur Bazari Project	Sonapur Bazari Coal Handling Plant	Complete electrics including HT/LT motors control and instrumentation cables, lighting etc.	1995
14.	DSP/ Bolani Iron ore project	Down Hill conveyors for Bolani iron ore project	Complete controls for down hill conveyors including HT/LT motors imported brakes etc	1995
15.	Mahanadi coal fields ltd. Sambalpur	Starting reactor for dragline	One number starting reactor for 20/90 dragline	1995
16.	NCL, Singrauli	Starting reactor for 12.5 cubic metre shovel	10 nos. starting reactor with switch gear controls	1995
17.	ABB, Germany	Ramagundam O/C-II project	Software for O/C Mine automation	1995
18.	NCL, Singrauli	Starting reactor for dragline	3 nos, starting reactor for 20/90 dragline	1993
19.	WCL, Nagpur	Starting reactor for dragline	One no. starting reactor for 20/90 dragline	1993
20.	NCL, Singrauli	Starting reactor for dragline	Two nos. starting reactor for 20/90 dragline	1992



Sl No.	Customer	Application	Equipment Involved	Year of Completion
21.	BCCL, Dhanbad	Putki Bullihari Mine Winder Project	Mine winder ventilation/ ducting equipment	1992
22.	SSL/ Madras for NCL	Nigahi Coal Handling Plant	HT Motors, PLC system and MCC for coal handling plant	1992
23.	BGML, KGF	Satgram Under Ground Mine Project	PLC & control desk for loading/unloading system	1991
24.	EPIL, New Delhi for WBSEB, Kolaghat	Coal Handling Plant of Kolaghat STPS	Complete Electrics including HT/LT Motors, Control & Instrumentation, Cables, Lighting, etc.	1989
25.	Burn Std, Calcutta for DESU, New Delhi	Ash Handling Plant of Rajghat TPS	PLC and Control Desks	1989
26.	Mahindra & Mahindra, Calcutta for WBSEB, Kolaghat	Ash Handling Plant of kolaghat TPS	PLC and Control Desks	1989
27.	Coal India Ltd. Calcutta	Starting Reactors for Dragline	2 Nos. Starting Reactors for Russian Dragline	1988
28.	ESL, Bangalore for MSEB, Khaperkheda	Coal Handling Plant Interconnection of Khaperkheda STPS	Complete Electrics including HT/LT Motors, Control & Instrumentation, Cables, Lighting, etc.	1988
29.	EPIL, New Delhi for DESU, New Delhi	Coal Handling Plant of Rajghat TPS	Complete Electrics including HT/LT Motors, Control & Instrumentation, Cables, Lighting, etc.	1987
30.	Jessop and Co. Ltd. for Vizag Steel Plant	6 Nos. Twin Boom Stackers, 8 Nos. trailer Unloaders	Complete Electrics and Controls	1986
31.	GRSE, Calcutta for NTPC, Vindhyachal	Coal Handling Plant of Vindhyachal STPS	Complete Electrics including HT/LT Motors, Control & Instrumentation, Cables, Lighting, etc.	1986
32.	Bharat Coking coal Ltd. Pootki Bullihary	2 Nos. Skip Winder, 2 Nos. Cage Winder	1600 KW DC Motors, Thyristor Convertors, Signalling Equipment, etc.	1985
33.	Heavy Engineering Corpn. Ranchi	7 Nos. Open Blast Hole Drills	60 KW DC Motor, 200 KW AC Motor, Thyristor Convertors, Controls, etc.	1985
34.	M.N. Dastur and Co.Ltd. for Vizag Steel Plant	VSP Coal Handling Plant	107 Controls Boards, Control Desks, Mimic Boards, etc,	1985
35.	Bharat Coking Coal Ltd. Moonidih	Reclaimers for Moonidih Coal Washery	27 KW AC Motors and Invertor Controls, etc.	1985
36.	Hindustan Copper Ltd. Ghatsila	600 KW DC Mine Winder	Complete Revamping including 600 KW DC Motor and Thyristor Converter	1985
37.	TISCO Jamadoba	500 KW Ventilation Fan for Jamadoba Mine	500 KW, 3.3 kV, 8 Pole SCIM and Soft Starter Controls	1985
38.	Hindustan Copper Ltd. Khetri	400 KW AC Mine Winder	Thyristor Converter for DB control, Rotor Resistors, etc.	1984



Sl No.	Customer	Application	Equipment Involved	Year of Completion
39.	Bharat Gold Mines Ltd. Kolar	30 KWDC Mine Winder	Thyristor Convertor Controls	1984
40.	Bharat Coking coal Ltd. Moonidih	1 no. 1600 KW Friction Winder	Thyristor Convertors	1982
41.	Hindustan Zinc Ltd. Udaipur	Revamping 75/150/300 KW AC Mine Winder	Controls for 75/150/300 KW, 440 V AC Mine Winders	1981
42.	Heavy Engineering Corpn. (Ranchi)	4.6 cubic metre Excavators	24 sets Electrics and Controls	1980
43.	Singareni Collieries Andhra Pradesh	25 Nos. Haulage Drives	25 Nos. 115 KW SRIM and Controls	1978
44.	Coal Mines Authority of India Calcutta	75 Nos. Drives & Controls for Ventilation and Haulage Equipment	25 sets with 160 KW SRIM and 50 sets with 300 KW SCIM and Controls	1978
45.	Singareni Collieries Andhra Pradesh	3 sets Ventilation Drives	3 sets of 225 KW 3.3 kV SRIM and Controls	1977
46.	TISCO Jamadoba, Bhelatand	2 Nos. 300 KW Friction Winders	2 Nos. 300 KW SRIM, 3.3 kV Switchgear, Liquid Controllers, DB by thyristor Control	1974
47.	Indian Copper Corpn. Ghatsila	1 No.135 KW Drum Winder	1 No. 135 KW SRIM, 3.3 kV Switchgear, Resistance Control	1974
48.	Bharat Coking Coal Ltd. Moonidih	2 Nos.1600 KW Friction Winders	2 Nos.1600 KW DC Motors, MG Sets, Thyristor Field Controls, Selsyn Position Control, etc.	1973
49.	Hindustan Copper Ltd. Khetri	1 No.1600 KW Double Drum, Double Clutch Winder	1 No.1600 KW DC Motor, MG Sets, Thyristor Field Controls, Selsyn Position Control, etc.	1972

10 REACTIVE POWER COMPENSATION

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Uttar Pradesh Power Corporation Ltd.	4 Nos, 40 MVAR, 132 KV shunt capacitors with reactors, SF6 Circuit Breaker, Isolators, current transformers, surge arrestors, control & Relay Panel	Under Execution
2.	Durgapur Chemicals Ltd.	11 KV 35 MVAR capacitor Bank with Reactor, vacuum Breaker, insulator, current & Potential transformers, control & Relay Panel Structures, Busbar etc.	2002
3.	KYCR coil Industries Bangladesh	33 KV, 6.5MVAR capacitor Bank with Reactor, vacuum Breaker, insulator, current & Potential transformers, control & Relay panel, ACSR conductor, Structures, etc	2001
4.	Maharashtra State Electricity Board	Shunt Compensation system for Nasik and Kolhapur zones at the following places: Malegaon –I : 30 MVAR, 132KV Pathardi : 30 MVAR, 132 KV Kurundha : 30 MVAR, 132 KV Nasri : 30 MVAR, 132 KV	2000
5.	Baku Steel Company Azerbaijan	Harmoni Filter Bank for Arc furnace 35KV, 15MVA, Harmonic filter Banrising comprising SF6 Circuit Breaker, Isolators, current & Potential transformers, surge Arrestor, Aluminium Bus Bar, Filter Reactors, Control & Relay Panel Structures etc.	2000
6.	Maharashtra State Electricity Board	Shunt Compensation system for Nasik and Kolhapur zones at the following places : Ahmed Nagar : 30 MVAR , 132 KV Bableshwar : 30 MVAR , 132 KV Kalwan : 30 MVAR , 132 KV Kopergoan : 30 MVAR , 132 KV Pachora : 30 MVAR , 132 KV Mudshingi : 30 MVAR , 110 KV Bapat camp : 30 MVAR , 110 KV Miraj : 40 MVAR , 110 KV Karad : 30 MVAR , 110 KV	1999
7.	National Aluminium Co. Ltd., Angul	Fixed capacitor bank system 12 nos. 1.5 MVAR, 6.6 KV for Unit Auxiliary system. 3 nos., 3 MVAR, 6.6 KV for Station Auxiliary system 15 MVAR, 11 KV, Harmonic filter banks for Smelter Auxiliary system for Harmonic Suppression & Power factor improvement.	1997
8.	Essar Steels Ltd. Hazira	Harmonic Filter Bank System for Hot Strip Mill 67.2 MVAR, 33 KV /11 KV fixed capacitor banks for harmonic suppression and power factor improvement	1996
9.	TCIL, Jamshedpur	Harmonic filter banks for Cold Rolling Mill 6 MVAR, 6.6 KV fixed capacitor bank for harmonic suppression and power factor improvement.	1996



Sl. No.	Customer	Equipment / System	Year of Completion
10.	Bhilai Steel Plant, Bhilai	SVC for Rail & Structural Mill 12.5 MVAR, 11 KV Static Volt ampere reactive power compensation system comprising of capacitors, filter reactors, thyristor controlled reactors, water cooled thyristor valve with controls & 11 KV switchgear.	1995
11.	Alloy Steel Plant, Durgapur	SVC for Arc furnace 35 MVAR, 33 KV static volt ampere reactive power compensation system comprising of capacitors, filter, reactors, thyristor controlled reactors, water cooled thyristor valve with controls & 33KV switchgear.	1995
12.	Tata Iron & Steel co. Ltd., Jamshedpur	SVC for Hot Strip Mill 50 MVAR, 33 KV static volt ampere reactive power compensation system comprising of capacitors, filter reactors, thyristor controlled reactors, high power water cooled thyristor valve with controls and 33 KV switchgear.	1995
13.	Rourkela Steel Plant, Rourkela	SVC for Tandem Cold Rolling Mill 50 MVAR, 33 KV static volt ampere reactive power compensation system comprising of capacitors, filter reactors, thyristor controlled reactors, water cooled thyristor valve with controls & 33 KV switchgear.	1995
14.	Indian Aluminium Co. Hirakud	Harmonic filter bank system for Smelter Auxiliary system. 15.1 MVAR, 11 KV, Fixed capacitor banks for harmonic suppression and power factor improvement.	1994
15.	Tata Iron & Steel Co. Ltd., Jamshedpur	Bar & Rod Mill 8.832 MVAR, 6.6 KV reactive power compensation equipment	1988
16.	Modi Steels Ltd., Modinagar	5.964 MVAR, 11 KV fixed capacitor banks for power factor improvement.	1987
17.	CFFP, BHEL, Hardwar	7.86 MVAR, 11 KV fixed capacitor banks for power factor improvement.	1987
18.	Insulator Plant, BHEL, Jagadishpur	300 KVAR, 415 Volts fixed capacitor banks for power factor improvement. 200 KVAR capacitor banks along with reactive power controller for Power Factor improvement.	1986
19.	Bokaro Steel Plant Bokaro	Dynamic Reactive Power Compensation Equipment for CRM-II Complex. 111 MVAR, 13.5 KV static filter bank and 43 MVAR 1.6 KV capacitor /reactor banks with Thyristor switching arrangement for dynamic compensation for harmonic suppression and for power factor improvement.	1982
20.	Salem Steel Plant, Salem	14 MVAR, 13.2 KV fixed filter bank for harmonic suppressor & power factor improvement.	1982



11 OTHER INDUSTRIES

Sl. No.	Customer	Equipment / System	Year of Completion
1.	BHEL, Bhopal	Static Excitation System for 2x20 MVA Alternators and 1 no. 10,000 HP Syn.motor for MG set # 5 of Transformer Test Group	2002
2.	HPCL, Petronet New Delhi. Through BPCL, Naini	3 sets of 1680 KW and 3 sets of 720 KW, 6.6KV, 3000 rpm S.Q. cage induction motors and auto transformer starters for HPCL – Petronet Mangalore – Bangalore pipe line for transportation of petro products.	2002
3.	HPCL, New Delhi Through IDP, UK.	Instrumentation panels and associated equipment for extension of Vizag – Vijayawada pipeline for petro products transportation.	2002
4.	IOCL, Baroda through BPCL, Naini	Two sets of barring gear arrangement for 750KW. Motor and reciprocating compressors.	2002
5.	New Mangalore Port Trust Mangalore. Through Japan Radio Company, Japan	Vessel traffic management system and associated equipment.	2002
6.	Shah cements, Bangladesh	6 sets of Liquid rotor starters and power factor improvement capacitor Banks for slipping motors of 2500 KW & 500 KW 6.6 KV for cement mill & sepol fan application.	2002
7.	HPCL, VIZAG.	Load commutated inverter system for 4500 KW brushless Synch. Motor for Hydrogen recycle compressor (DHDS Project)	2000
8.	Ordnance factory, Bhandara	Electrics & Instrumentation systems for nitric acid concentration plant and sulphuric acid concentration plant.	2000
9.	BHEL, Bhopal	Thyristor Converters for 600 KW DC motors drive and field supply converters for 2x1 MVA alternators for the MG set # 4 of Transformer Test Group	2000
10.	BHEL, Jhansi	Thyristor Converters for 436 KW DC motor drive and field converter for alternator for MG set # 3 of Transformer Test Plant	2000
11.	BHEL, Jhansi	Thyristor Converters for 600 KW DC motor drive and field converter for alternator for MG set # 4 of Transformer Test Plant	2000
12.	Gas Authority of India, New Delhi, through M/s IDP, U K	415V, 250/220KW 5 Nos. VSD systems for vertical pumps and instrumentation system for Jamnagar Ioni pipe line for LPG transportation.	2000
13.	Master Control Facility, Hassan	Auxiliary Equipment viz., UPS, Air-conditioners, PC based HMI system, Fire Fighting Equipment, MCC for Satellite Earth Control Station No. #6.	2000
14.	BHEL, Hardwar	Thyristor Converter for pump drive motor and automation using PLCs for Cavitation Test bed for augmenting Hydroturbine Lab facilities	1998
15.	ONGC, SANTAAL.	Excitation system for 3950 KW 18 pole brushless Synch. Motors - 3 Nos.	1997
16.	Sree Rayala Seema alkalies and allied chemicals Ltd., Kurnool	16 KA, 800 V high current rectifier for caustic soda plant.	1997



Sl. No.	Customer	Equipment / System	Year of Completion
17.	Bharat Heavy Plates & Vessels Ltd. for RSP	2 Nos. 11KV, 4200 KW, 1000 rpm synchronous motors for air compressors with static excitation equipment and associated controls	1995
18.	Bharat Heavy Plates & Vessels Ltd. for RSP	3 Nos. 6.6 KV, 1185 KW, 490 rpm squirrel cage induction motors for oxygen compressors	1995
19.	BHEL, Bhopal	1 No. thyristor converter for 2000 HP, 750 volts, drive for U.H.V. Lab	1994
20.	Bharat Pumps & Compressors Ltd for IOC	Supply of electrics for 3 Nos, 3000 KW pressurised brushless synchronous motor for make up hydrogen compressor with auto transformer starting for Gujarat Hydro Cracker Project	1994
21.	DGNP, Naval Dockyard Bombay Maharashtra	3 Nos. - 1000 KVA 460 V, 50-60 Hz frequency converter sets with static excitation equipment	1990
22.	BHEL, RC Puram Hyderabad	1 No. thyristor converter for rotor balancing tunnel drive of rating 1300 KW with accessories	1990
23.	BHEL, RC Puram Hyderabad	Thyristor converters for 1 No. 2650 KW DC motor & 1 No. 1300 KW DC motor for electrical machine test bed with accessories	1990
24.	BHEL, RC Puram Hyderabad	Thyristor converters for 4 Nos. 8 KW DC & 2 Nos. 130 KW DC for modernisation of SK-125 Boring machine with accessories	1990
25.	Metal & Steel Factory Ichapore, West Bengal	Overhauling of MG sets of rating 1875 KW	1989
26.	Jessop & Co. Ltd Calcutta, West Bengal.	Supply of 2 Nos. field converters for generator & motor Thyristorised A.C. Controls for ladle crane	1987
27.	HMTF Heavy Engineering Corpn. Ranchi, Bihar	1 No. 90 KW DC motor & field converters for MG Set for planner machine with associated controls	1986
28.	Indian Oil Corporation Haldia, West Bengal	1 No. 6.6 KV, 2.5 MW 'N' type squirrel cage induction motor with autotransformer starting and associated Protection and Controls for ammonia compressor	1985
29.	Jessop & Co. Ltd Calcutta, West Bengal.	Thyristorised A.C. Controls for ladle crane	1985
30.	Hindustan Photo Films Ltd. Ooty Tamil Nadu	Drives & Controls of 14 Nos. of DC drives of rating of 2 KW each with matching thyristor converters & AC auxiliary drives for continuous emulsion coating plant	1984
31.	Bharat Heavy Electricals Limited R&D Hyderabad Andhra Pradesh	Converter for 300 KW Motor	1983
32.	Bharat Heavy Electricals Limited Hyderabad Andhra Pradesh	Electric for Rotor Balancing Drive, 2 Nos. 900 KW, 700 V DC Motor with thyristor Converters	1983
33.	Oil India Ltd. Duliajan Assam	Electrics for Oil Rigs Thyristor Converters for 6 Nos. 550 KW D.C. Motors	1983
34.	Bharat Heavy Electricals Limited Hyderabad Andhra Pradesh	Modification of Rotor Balancing Drive , Field Control Converter for MG Set rated 800 KW	1983



Sl. No.	Customer	Equipment / System	Year of Completion
35.	Heavy Machine Tool Plant Heavy engineering Corporation Ranchi Bihar	80 KW DC Motor & Thyristor Converters	1983
36.	Bharat Heavy Electricals Limited Hardwar Uttar Pradesh	Electrics for Rotor Balancing Drive, Field Control Converter for MG Set rated 1000 KW	1982
37.	Bharat Heavy Electricals Limited Hyderabad Andhra Pradesh	Controls for 3 MW SCIM	1982
38.	Hindustan Fertilizer Corporation Durgapur West Bengal	Electrics for 15 MW TG Set, Generator Protection, Instrumentation and Controls	1982
39.	Bharat Heavy Electricals Limited Hyderabad R&D Unit Andhra Pradesh	Electrics for Vibration Lab, 597 KW, 450 V, Armature Thyristor Converter with Main Transformer	1982
40.	Bharat Heavy Electricals Limited R&D Hyderabad Andhra Pradesh	100 KW Thyristor Converter	1982
41.	Bharat Pumps & Compressors Limited Naini Uttar Pradesh	1 No. 1000 KW DC Motor & Ventilation Equipment	1978
42.	Bharat Heavy Electricals Limited Jhansi Madhya Pradesh	Test Plant Electrics for power transformer 7 MVA 11 KV, 5 MVA 11 KV Alternators 2 MVA 6.6 KV Sinewave AC Set with drive system, Controls and instrumentation	1978
43.	Diesel Locomotive Works Varanasi Uttar Pradesh	1 No. 1750 KW Alternator & Controls	1978
44.	Cooper Engineering Company Pune Maharashtra	10 Nos. Planning Machine Electrics, 20 KW MG Set, drives with field thyristor convertor and associated controls for each machine	1977
45.	Triveni Engineering Company Naini Uttar Pradesh	1 No. 2000 KW & 1 No. 2500 KW, Alternators & Controls	1974
46.	Triveni Engineering Company Naini Uttar Pradesh	4 Nos - 2500 KW, 3 Nos - 2000 KW, 3 Nos - 1500 KW Alternators & Controls	1973

12 OTHER INDUSTRIES – SUB_STATIONS

Sl. No.	Customer	Equipment / Systems	Year of Completion
1.	Bakur steel company Azerbaijan	1x110KV Bay extension - 110 KV SF6 circuit breaker Insulators, current & Potential transformers, control panel, equipment support structures.	2001
2.	Bakur steel company Azerbaijan	1x110KV Bay comprising 110 KV SF6 circuit breaker Insulators, 80 MVA Power Transformer, current & Potential transformers, control panel, equipment support structures.	2000
3.	Fertiliser Corporation Of India, Sindri	11 KV & 3.3 KV Switchgear panels, control & Relay Panel for Generators, HT & LT XLPE Cables, ACDB, DCDB Battery Charger, Fire Fighting eqpts., AVR, for 4 x 15 MW Gen. Sets.	1999
4.	Kerala State Electricity Board Kozhikode	4x110KV Bays comprising SF6 circuit breaker Insulators, current & Potential transformers 35 MVA Power Transformer, yard Control cables, control panel, fire fighting eqpt. Illumination, Air conditioning system	1999
5.	Bhilai Steel Plant Bhilai	2 x 132 KV Bays Expn. Work at MSDS-2 5 x 132 KV Bays Swyd at MSDS-6 including 2 x 30/50 MVA Transformers 132 KV SF6 CBs, IS, LAs, CTs, CVTs, C&R Panels, AC/DC DBs, Battery, Charger 11 & 6.6 KV Swgr. Fire Fighting, Earthing, Civil & Structural works	1997
6.	Bhilai Steel Plant Bhilai	2 x 132 KV Bays Expn. Work at MSDS-1 5 x 132 KV Bays Swyd at MSDS-4 including 2 x 30/50 MVA Transformers 2 x 16 MVA Transformers, 132 KV SF6 CBs, IS, LAs, CVTs, CRPs, AC/DC DBs, Fire Fighting, Illumination, Earthing, Communication, SCADA, Sub-Stn. Bldgs. OH galleries, Civil & Structural works.	1997
7.	NALCO, Angul	1 x 220 KV Bay-SF6 CBs, CTs, PTs, LAs 11 KV Cellular Switchgear, LT PCC Battery, Charger, DCDB, Earthing Illumination, Sub-Stn. building, Civil, Structural works, fire fighting, Ventilation system etc.	1997
8.	INDAL, Hirakud	1 x 132 Kv Addl. Bay Expn. Of Existing 3 x132 KV Bays with SF6 CBs, CTs, ISs, LAs, Tabular Bus Bars, Post Insulators, Yard Structural, asso. Civil Work etc.	1997



13 PUMPING STATION

Sl. No.	Customer	Equipment / System	Year of Completion
1.	Bangalore water supply & Sewerage Board. Bangalore (Karnataka)	Engg, Supply, erection testing and commissioning of 24 Nos. horizontal split casing centrifugal pumps for delivering 2400 m ³ / hr clear water at heads between 45m to 116m 24nos 6.6KV CACA motors rated at 1000KW to 1300KW, manifolds, motorized butterfly valves, non return valves (1500 mm to 600 mm) pressure relief valves, pipes, fittings, expansion ballows, sluice gates 2000mmx2000mm, A.C. equipment, surge protection system, fire extinguisher, 66KV outdoor substations 66KV / 6.9KV Transformers, 6.6KV switchgear, relay & control panels, cables, earthing, lightning protection system, instrumentation including ultrasonic flow, level measurement systems, pressure switches, instrument control panel, UHF communication system, SCADA & Telemetry.	2002
2.	Krishna bhagya Jala Nigam Ltd. Almatti – Karnataka	Engg, Supply, erection testing and commissioning of 250 KW 1500 rpm Diesel gensets, Batteries, Airconditioning system, Main distribution board, cables, earthing system, fire detection & Extinguishing system.	2002
3.	Krishna bhagya Jala Nigam Ltd. Almatti – Karnataka	Engg, Supply, erection testing and commissioning of permanent illumination of dam top & drainage galleries consisting of light poles, fittings, bulkh ers raising mains, surge shafts, 1400 mm butterfly valves, 6.6 KV electrical switchgear, cables, illumination & fire fighting system, earthing battery chargers, capacitor banks.	2002
4.	Govt. of Rajasthan - I.G.N.P, Bikaner	6.6 KV HT Switch board - VCBs and Vacuum Contactors for 250 KW Pump Drives, LT MCC, Aux Transformers, DG Set, Battery Charger, Cables.	2000