

**MAJOR ITEMS  
OF  
PLANT AND EQUIPMENT**

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## CRAWLER CRANES

Item No.	Description	Nos. Held
1.	Crawler Crane Hitachi KH-150: Make: Hitachi, Japan. Max lifting capacity: 50 Tons Max combined boom: 110 feet Prime Mover: GM 6-71	1
2.	Crawler Crane Hitachi KH-125: Make: Hitachi, Japan. Max lifting capacity: 35 Ton. Max Combined boom: 70 Feet. Prime Mover: DAF-6 Cyl Turbo	1
3.	Crawler Crane Hitachi TH55/ED: Make: Hitachi, Japan. Max lifting capacity: 30 Ton. Max Combined boom: 60 Feet. Prime Mover: Deutz 6 Cyl	1
4.	Crawler Crane Hitachi KH-100 Make: Hitachi, Japan Model: KH- 100 Max lifting capacity: 30 Ton. Max Combined boom: 75 Feet. Prime Mover: Hino Diesel Engine 6 Cylinder.	1
5.	Crawler Crane Hitachi KH-55/2: Make: Hitachi, Japan. Max lifting capacity: 30 Ton. Max Combined boom: 40 Feet. Prime Mover: Bedford 6 Cylinder	1
6.	Crawler Crane LS 108 BSS: Make: Somitomo, Japan. Max lifting capacity: 50 Ton. Max Combined boom: 40 Feet. Prime Mover: Bedford 6 Cylinder	1
7.	Crawler Crane RB-22: Make: Ruston Bysirus. Max lifting capacity: 25 Ton. Max Combined boom: 40 Feet. Prime Mover: Bedford 6 Cylinder	1

## MOBILE CRANES

Item No.	Description	Nos.
Held		
1.	Mobile Crane Kr20H-3:  Make: KATO Max lifting capacity: 20 Tons Max combined boom: 70 feet Prime Mover: Bedford 6 Cylinder	1
2.	Mobile Crane RB-22:  Make: Ruston Bysirus Max lifting capacity: 25 Tons Max combined boom: 70 feet Prime Mover: Bedford 6 Cylinder	1
3.	Mobile Crane HS-20:  Make: Hanson Max lifting capacity: 20 Tons Max combined boom: 70 feet Prime Mover: Bedford 6 Cylinder	1

## SPECIALISED PILING EQUIPMENT

Item No.	Description	Nos. Held
<b>LARGE DIAMETER CRANE MOUNTED DIGGERS:</b>		
1.	Mechanical Rotary Rig TRM 35/21:  Make: CMV / Italy  Mechanical Rotary Rig with telescopic Kelly Bar (12x5 meter) Capacity diameter: 400mm to 2000mm, with reamer 2500mm	1
2.	Pilling rig Hitachi TH55/ED Make: Hitachi, Japan. Max lifting capacity: 35 Ton. Max Combined boom: 60 Feet. Prime Mover: Deutz 6 Cyl	1
3.	Pilling rig Hitachi TH55/2 Make: Hitachi, Japan. Max lifting capacity: 30 Ton. Max Combined boom: 40 Feet. Prime Mover: Deutz 6 Cyl	1
4.	Mechanical Rotary Rig MAIT T-8:  Make: MAIT, Italy  Mechanical Rotary Rig with telescopic Kelly Bar (8x5 meter). Capacity diameter: 3660mm to 1500mm	1
5.	Mechanical Rotary Rig MAIT T-9:  Make: MAIT, Italy  Mechanical Rotary Rig with telescopic Kelly Bar Capacity diameter: 3660mm to 1500mm	
6.	Heavy duty Augers 400 mm to 2000mm	14
7.	Standard buckets 400 mm to 1500mm.	4
8.	Clean out buckets 400 mm to 4000mm.  Note: (Buckets and Augers in other sizes can be fabricated in-house).	
9.	Hydraulic Vibratory Pile Driver/Extractor:	1
10.	Pile Load Test Equipment including loading girders, reaction	2 Sets

**MUD CLEANER (DESANDER):**

- |  |              |
|--|--------------|
| 8. MUD CLEANER:  | 2            |
| For removing sand from circulating mud/bentonite in large dia holes.   |              |
| 9. TREMMIE PIPES AND CONCRETINTG BUCKETS:<br>Special tremmie pipes etc for placing large volumes of<br>concrete in piles in different Sizes Sets). | 50M - 4 sets |
| 10. CAGE FABRICATION EQUIPMENT   | 6 Sets       |

## CONCRETING EQUIPMENT

Item No.	Description	Nos. Held
1.	Concrete Batch Plant : Stater 15 CuM/Hr Prime Mover: Electric Motor	2
2.	Concrete Mixer:	6
3.	Transit Mixer: Make: Hino Capacity: 6 Cu.M	4
4.	Concrete Pump ELBA: Make: Germany Type: Piston Outlet: 150 Cu.M Prime Mover: Deutz Diesel F4L 912.	1
5.	Concrete Vibrators, Internal	4
6.	Concrete Vibrators, External	4
7.	Ittefaq Tipper Deluxe: Payload: 1000 Kg.	2
9.	Steel Shuttering Complete Bridge Set.	4

## REVERSE CIRCULATION DRILLING EQUIPMENT

Item No.	Description	Nos. Held
1.	Reverse Circulation Rig	2
	Make: Salzgitarr, Germany	
	Power: Diesel Engine G.M. 6-71 I	
	Capacity: 2m dia, bore maximum to 100m 500mm dia to 250m	
<b>ACCESSORIES:</b>		
3.	R.C. Drill Rods	1000Ft
4.	RC Bits Various sizes.	34
5.	Mud Pumps - On board with rigs & spares.	9



## STRAIGHT ROTARY DRILLING & CORING EQUIPMENT

Item No.	Description	Nos. Held
1.	<p>Straight Rotary Eddico, England (UK)</p> <p>Capacity: Handle 800 feet 4-1/2" drill pipe.  1000 feet 3-1/2" drill pipe.  1200 feet 2-7/8" drill pipe.</p> <p>To handle casing loads upto 48,000 Lbs., with 6 lines.</p> <p>Mud Pump: Gardener Denver 7-1/2" x 8".  Prime Mover: G.M. 4-71 Diesel.</p> <p>Drill Rods - 4-1/2". 1000 ft.</p>	2
2.	<p>Straight Rotary Shahzore</p> <p>Conventional drill rods in 114mm, 90 mm, 89mm, 76mm, 50mm, NX etc., sizes totalling over 5000 ft.</p> <p>Conventional casing to cater for all above sizes totalling over 3000 ft.</p> <p>Assorted lengths of single and double and triple tube core barrels in all sizes.  Wireline and standard fishing tools.</p>	3

**PNEUMATIC/HYDRAULIC LIGHT HAND  
DRILLS/BREAKERS/HAMMERS**

<b>Item No.</b>	<b>Description</b>	<b>Nos. Held</b>
1.	Rock Drill  Approx. Drill Depth: 10-25 feet.	3
2.	Rock Drill  Approx. drill depth: 10-12 feet.	2
3.	Concrete Breaker Pneumatic	34

**EXCAVATION EQUIPMENT**

Item No.	Description	Nos. Held
1.	Excavators:	1
	Make: Hitachi Crawler Type	
	Model: Ex300	
1.	Excavators:	1
	Make: Hitachi Mobile	
	Model: Ex200	
1.	Excavators:	1
	Make: JCB	
	Make: JCB	

## PERCUSSION/CABLE TOOL DRILLING EQUIPMENT

Item No.	Description	Nos. Held
1.	Rockwell Winch (Double Drum): Dynamic Line Pull : 8900 Lbs Static Line Pull : 15500 Lbs. Capacity : 750 mm dia to 50m 400 mm to 200m Bore depth upto 16" dia: 500 feet.  Prime Move: Electric Or Diesel Engine: - 60 H.P.	4
3.	Rockwell Winch (Single Drum): Dynamic Line Pull : 8000 Lbs. Static Line Pull : 14000 Lbs. Capacity : 750mm dia to 50m. 400mm dia to 175m.  Prime Mover: Electric or Diesel Engine - 50 HP.	8
4.	International Winch: Make : International USA Capacity : 5 Ton Prime Mover: Tractor International	3
<b><u>PERCUSSION DRILLING ACCESSORIES</u></b>		
6.	Heavy Duty Tripods / Derricks.	8
7.	Light Duty Tripods. Percussion Drilling Casing in sizes of sorts i.e. 1 meter, 28-1/2",	25
8.	25", 24", 20", 19-1/2", 18", 16", 15", 12".	4,000 feet
9.	Percussion Drilling Bailers in all casing sizes.	20
10.	Percussion Drilling Heads in all casing sizes.	40

## GROUTING EQUIPMENT

Item No.	Description		Nos. Held
<b>GROUTING EQUIPMENT</b>			
1	Haliburton dual piston pump complete set with accessories. Diesel/Electric Drive	Haliburton Standard	2
2	Lombardini grout pump complete set with accessories. Diesel.	Lbardini-Italy LDA-96 Standard .	1

### **GROUT ACCESSORIES**

In house facilities for design and manufacture of packers, seals etc.  
Ample stocks of hoses, unions, junctions etc,

## GUNITE/SHOTCRETE EQUIPMENT

Item No.	Description	Nos. Held
1.	Reed (Guniting Gun):  Make: Reed Type: Twin Type Output : Upto 1 Cu Mtr/Hour.	2
2.	Boulder Pneumatic Refractory Gun :  Make: Boulder Equipment Ltd. Type: H - 5 Output: Upto 1.5 Cu.Mtr / Hour.	2
3.	Reed Shotcrete Gun:  Make: Reed, USA Type: X-52 Output: Upto 2 Cu Mtr/Hour.	1
4.	Reed Shotcrete Machine/Pump (For use with Guniting Gun) 4 <b>accessories.</b> Make: Reed, USA Model: Lova & Sova Type: Air & Electric Powered Capacity: 120 - 720 GPH.  Max Water Pressure: 350 psi (24 bar).	
5.	Ample Stocks of Air and Water Hoses, Nozzles and Control	

## DEWATERING EQUIPMENT

Item No.	Description	Nos. Held
1.	Jetting Pump : Make: John W. Stang Corporation Well Point System & Pumps, USA. Prime Mover: Electric Motor 50 H.P. Siemens	1
2.	Well Point Pumping Set : Make: John W. Stang Corporation, USA. Model : 710 Suction Delivery: 8" x 8" 2500 gpm. Priming: Vacuum System. Prime Mover: GM Diesel Model 3 - 71.	6
3.	Well Point Sets, Comprising of: Well Points, Riser Pipes, Header Pipes and Swing Joints.	Approx 1,000 sets
4.	FLYGT Submersible Pump: Make: FLYGT Overseas, Sweden. Model: 2250.011 Prime Mover: Electric Motor Driven. Outlet: 8" Capacity: 125 1/s at 25 M Head	2
5.	FLYGT Submersible Pump: Make: FLYGT Overseas, Sweden. Prime Mover: Electric Motor Driven Outlet: 4" Capacity: 30 1/s at 25 M Head	2
6.	FLYGT Submersible Pump (For Mud): Make: FLYGT Overseas, Sweden. Model: 2250.011 Prime Mover: Electric Motor Driven Outlet: 4" Capacity: 30 1/s at 30 M Head	2
7.	ZENIT Submersible Pump: Make: ZENIT Elektro Pumpe, Italy Prime Mover: Electric Motor Driven Outlet: 3" Capacity: 30 1/s at 60 M Head	1
8.	Vacuum Pump :	1
9.	Sump Pump :	1

## AIR COMPRESSORS

Item No.	Description	Nos. Held
1.	Air Pumps Ltd., U.K.: Normal Operating Pressure: 7 bars Actual Delivery: 250 cfm. Prime Mover: Leyland Diesel 6 Cyl	1
2.	Atlas Copco Portable Air Compressor XRH-350 Dd: Maximum Working Pressure: 22 bars Normal Working Pressure: 18 bars Free Air Delivery: I/S 350 (742 cfm) Prime Mover: Deutz Diesel Engine F12L 413 F	1
3.	Airman, U.K. : Maximum Working Pressure: 12 bars Normal Working Pressure: 7 bars Free Air Delivery at full load and pressure at 7 bars: 210 L/S (450 cfm) Prime Mover: Komatsu Diesel 6 Cyl	1
4.	Airman, U.K. Maximum Working Pressure: 8.8 bars Normal Working Pressure: 7 bars Free Air Delivery at full load and pressure at 7 bars: 350 I/S (742 cfm) Prime Mover: Komatsu Diesel 6 Cyl Turbo	1



## GENERATING SETS

Item No.	Description	Nos. Held
2.	Perkins Diesel Generator 350- KVA: Rating: 150 KW/350 KVA Prime Mover: Detroit Diesel 6-71	2
5.	F.G.Wilson Generators, P 100: Make: F.G. Wilson (Engineering) Ltd., U.K. Rating: 40 KW (400/230 Volts) Prime Mover: Perkins Diesel, Model YB 50367, 6 Cylinder	1
11.	G.M. Generator Rating: 50 KVA Prime Mover: GM Diesel Engine (4-71)	1
13.	Lister Generator : Rating: 34.4 KVA. (240/410 Volts) Power (Prime Mover): BELARUS 4 Cyliners, 50 H.P.	2
14.	Synchronus Generator, STC-TH: Rating: 25 KVA Prime Mover: Detroit Diesel 2-71	2
15.	Synchronous Generator, MSA - TH: Make: Dong Feng Electric Rating: 15 KW (400 Volt) Prime Mover: 4 Cylinder China Turbo	2
17.	Honda Generator, EG 1800: Rating: 1.5 KVA Prime Mover: Honda	3
18.	Robin Generator, R-650: Rating: 450 - 500 W	4

## GENERAL & MULTIPURPOSE PUMPS

Item No.	Description	Nos. Held
5.	KSB Water Pump KWPZ: Model: KWPZ 100/400 Suction/Delivery: 5_ x 4_ Capacity: 748 GPM Prime Mover: GM Diesel 3-71	2
6.	KSB Water Pump KWP: Model: KWP 100/400 Suction/Delivery: 5_ x 4_ Capacity: 1.5 Cusec (562 GPM) Prime Mover: GM Diesel or Electric Motor.	1
7.	Pump 5_ x 4_, NICE: Horse Power 10 Capacity 450 GPM Prime Mover Detroit Diesel 3-71	3
8.	Pump 5_ x 4_, NICE: Horse Power 10 Capacity 450 GPM Prime Mover Dongfon Diesel, Model S 1100	4
9.	Pump 3_ x 2-1/2_, NICE: Horse Power 5 Capacity 160 GPM Prime Mover Electric Motor	2
10.	Pump 6_ x 5_, NICE: Horse Power 20 Capacity 800 GPM Prime Mover Electric Motor or GM Engine	1
11.	Pump 6_ x 5_, YALLY: Horse Power 15 Capacity 750 GPM Prime Mover Electric Motor 15 H.P.	1
12.	Pump 5_ x 5_ PLAZA: Horse Power 15 Capacity 750 GPM Prime Mover Dongfon Diesel Engine 1 Cylinder	1
13.	Pump 3_ x 2-1/2_ KSB: Horse Power 20.9 Capacity 300 GPM	4

## TURBINE/SUBMERSIBLE PUMPS

Item No.	Description	Nos. Held
1.	Worthington Turbine Pump: Type: 14 W.C. Capacity: 2400 gpm. Make: USA Arrangements available: With electric motor & Diesel	6
2.	Worthington Turbine Pump: Type: B - 175 Capacity: 800 gpm Make: USA	4
3.	Worthington Turbine Pump: Type: 8 MC Capacity: 225 gpm Make: USA	4
4.	Rockwell Turbine Pump: Type: 10 MC Capacity: 350 gpm Make: Pakistan	2
5.	Rockwell Turbine Pump: Type: B/10-D/4 Capacity: 800 gpm. Make: KSB Pumps Manufacturing Co. Ltd..	2
6.	Rockwell Turbine Pump: Type: B/8-D/9 Capacity: 400 gpm Make: KSB Pumps Manufacturing Co. Ltd.	2
7.	Rockwell Turbine Pump: Type: B/10-B/4 Capacity: 400 gpm Make: KSB Pumps Co. Ltd.	4
8.	KSB Submersible Pump: Make: KSB Pumps Company Ltd. Type: BPH - 272/15 Capacity: 150 IGPM at 500 Ft. Head.	1

## WELL DEVELOPMENT AND TESTING UNITS

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Item No.	Description	Nos. Held
1.	Right angled gear drive D&T Units, suitable for developing	5
	<b>Note: Arrangements with electric &amp; diesel drives available.</b>	
2.	Vertical Hollow Shaft Motor:	14
	Type: Worthington B	
	Rated Output: 25 HP.	
	Make: Siemens Pakistan Engineering Co.Ltd.	
3.	Vertical Hollow Shaft Motor:	5
	Type: Worthington D	
	Rated Output: 20 HP.	
	Make : USA	

**GEOTECHNICAL INVESTIGATION  
ACCESSORIES/INSTRUMENTS**

Item No.	Description	Nos. Held
<b>SAMPLING, TESTING AND PROBING EQUIPMENT</b>		
1.	Hydraulic Deep Sounding Apparatus for Dutch Cone	1
2.	Field Vane Torsion Head :	1
3.	IOWA Borehole Shear Tester :	1
4.	S.P.T. Sets: Simple valve and basket type valves available to suit the split spoon sampler in loose and broken str ata.	12
5.	Auger Boring: Complete sets with standard fittings to obtain disturbed samples and a wide range of IWAN and earth augers from 3" to 10".	4
6.	Undisturbed Sampling Equipment:	10

Item No.	Description	Nos. Held
7.	Soil & Material Testing Laboratory:  Complete Soil Mechanics and Material Testing Laboratory equipment from Soiltest Inc., of USA, capable of carrying out all types of soil and material tests and geological sampling.	10
8.	and Levelling Instruments, etc:	
(1)	Theodolite 10C, Sokkisha.	1
(2)	Theodolite Wild.	1
(3)	Level B1C, Sokkisha.	1
(4)	Level Wild.	3
(5)	Tripods for Theodolites/levels.	6
(6)	Staff double face, Ft/Mtr. folding type. (Metallic).	4
(7)	Staff 3 face	1
(8)	Total Station SET-5A (Electronic) - Sokia	1 Set
9.	Level Surveying China.	1
	<b>SOIL/EARTH COMPACTOR</b>	
10.	Compactor Plate Type	2
11.	Vibratory Roller Compactor Light Duty	1

**UNDER WATER CUTTING EQUIPMENT**

Item No.	Description	Nos. Held
1.	UNDER WATER CUTTING LANCES/TORCES	2
	Manufacture: M & G Brenntechnik AG,	
	Details of WEKA Torches etc:	
	WEKA Torch UW 12B x 2 M	200
	WEKA Torch UW 16B x 2 M	9
	WEKA Torch UW 16B x 4 M	10

## MISCELLANEOUS EQUIPMENT AND STORES

Item No.	Description	Nos.	Held		
1.	Slipforming jacks, hoists and allied equipment for slipforming of silos, chimneys, towers etc.				
2.	Ancillary equipment and stores for highly specialist works such as Guniting, Grouting, Underpinning, Tunnelling, Mining, Shaft Sinking Blasting etc.				
3.	Steel Scaffolding with allied Couplers etc.		4,000 Rft.		
4.	Ample stocks of spare parts to feed all machinery.				
5.	Extensive Camping equipment for the field.				
6.	COMPUTERS				
	5 Nos. Pentium Personal Computers are available for office and field work with networking and modem cards.				
	560 Tek Color, HP Laser Jet 4M, HP Laser 1100, 6L, Epson and DeskWriter Printers to produce in house graphics and DTP output.				
7.	WORKSHOP EQUIPMENT:				
	A. Lathes, Shapers, Drilling, Cutting, Forging, Grinding, Furnacing, Welding & Pipe Rolling Machines, Wire Jacks, Chain Pulley Block, Hydraulic Jacks, etc.				
	B. Complete engine overhauling facility.				
8.	TRANSPORT / TRACTORS:				
	VEHICLE AND TRUCKS ETC				
	4-wheels drive heavy duty trucks Bedford/TAM	2	1985-86	Owner	10 Tons
	4-wheels drive trucks or Tractors with trailers and water tank Russian and Local	2	1987 1992	Owner	7-10 Tons
	4-wheels drive Pick up jeeps Datsun/Toyota/ Suzuki)	2	1992 1993		1 Tons
	Cars (Suzuki/ Toyota)	2	1990 1995		5-Seater



**LIST OF FOUNDATION ENGINEERING EQUIPMENT  
TO BE DEPLOYED AT THE PROJECT**

S.No.	DESCRIPTION	MAKE	MODEL	CAPACITY	QTY.	COND.	AVLB.	OWNED/
	<b>PILING WORK</b>							
	<b>BUCKET / AUGER SYSTEM</b>							
1	Mechanical Rotary Rig with telescopic Kelly Bar	CMV ITALY	TRM 35/21	12M X 5 = 60M	1 No.	Working	Y	RCL
2	Mechanical Rotary Rig with telescopic Kelly Bar	ITALY	MAIT T-9	8M x 5 = 40M	1 No.	Working	Y	RCL
3	Hydraulic Rotary Rig Earth Drill with telescopic Kelly Bar with additional stem Rod	HITACHI-JAPAN	TH-55/2	13M X 3 = 39M + 13M =52M	1 No.	Working	Y	RCL
4	Hydraulic Rotary Rig Earth Drill with telescopic Kelly Bar with additional stem Rod	HITACHI-JAPAN	TH-55/ED	13M X 3 = 39M + 13M =52M	1 No.	Working	Y	RCL
	<b>CRANES</b>							
	<u>CRAWLER</u>							
	Compatible with Rotary Attachments	HITACHI	KH-125	35 T	1 No.	Working	Y	RCL
		HITACHI	KH-100	30 T	1 No.	Working	Y	RCL
		HITACHI	TH-55	30 T	1 No.	Working	Y	RCL
		HITACHI	TH-56	30 T	1 No.	Working	Y	RCL
	<b>ALL TERRAIN / MOBILE</b>							
1	Mechanical	RUSTON BYSIRUS	RB-22	25 T	1 No.	Working	Y	RCL
2		HANSON	HS-20	20T	1 No.	Working	Y	RCL

<b>CONCRETE WORKS</b>								
1	Concreting equipment complete with trimmie, funnel, buckets etc.	Pakistan		250mm dia - 50 M	2-Sets	Working	Y	RCL
2	Welding Generating Sets	Yanmar		150-350 Amp.	2-Nos.	Working	Y	RCL
3	Battery Charging Generating Sets.	PAK		Standard	2-Nos.	Working	Y	RCL
<b>GROUTING EQUIPMENT</b>								
1	Haliburton dual piston pump complete set with accessories. Diesel/Electric Drive	Haliburton		Standard	2-Nos.	Working	Y	RCL
2	Lombardini grout pump complete set with accessories. Diesel.	Lbardini-Italy	LDA-96	Standard	1-No.	Working	Y	RCL
<b>SHOTCRETE EQUIPMENT</b>								
1	Risen Shotcrete Machine with all accessories. Deisel/electric	China	PZ-3	3CuM/Hr	1-No.	Working	Y	RCL
	Generators	USA	CAT	50KW	1-No.	Working	Y	RCL