



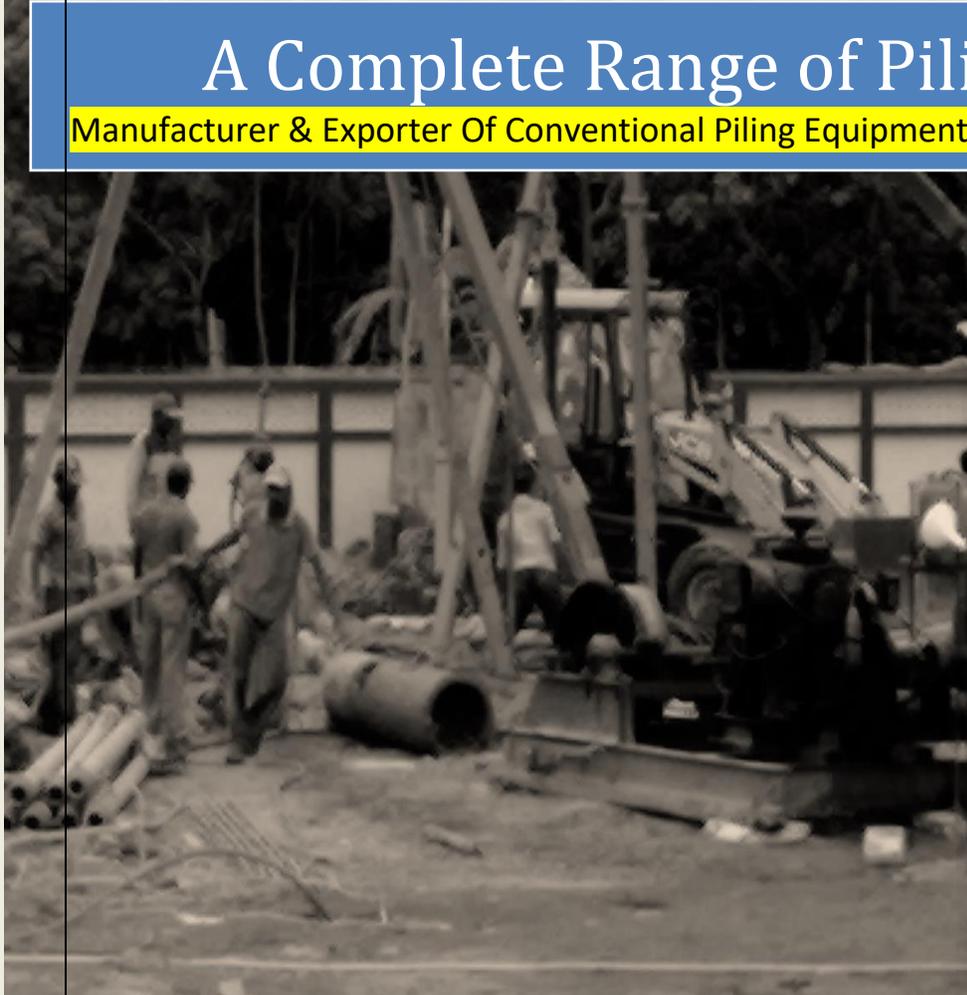
Metalix Engineering

www.pilingmachineindia.com

Anup Kr Sarkar

A Complete Range of Piling Equipment's

Manufacturer & Exporter Of Conventional Piling Equipment, DMC Rig Machine & Accessories



We manufacture Supply & Export all kind Piling Equipment's (DMC & AUGOR) Soil testing Equipment like

Note:-- For Small Dia & Short Length Augor is used (300/400/450 Length:--6 mtr to 12mtr/15mtr) in clay Soil

For Pile Foundation (DMC) 400mm to 1200mm Length :--15meter to 40 meter in various High-rise Building /Bridge in Clay Sand Rock based soil DMC Method is used from decades

All the products are tested in various industrial Parameter, to ensure the longevity and Proper Functioning of the Equipment's.

Contents (Pictures with Details)

- + List of Equipment's & Accessories with details
- + DMC Winch Machine & Chisel
- + DMC & Treame pipe Hopper
- + Tripod Bailer Casing
- + Head Lock Chut-Cart & Engine
- + Augor Piling & Soil Testing Equipment
- + Sample picture (Larger View)
- + Workshop & Jobsite Album
- + Workshop Team & Contact Details



Metalix Engineering (Kolkata India)

Office Address:--65/2 Satyen Roy Road Behala Kolkata:-34

Contact No:--9874065259/9874665259/8621904924



PLING MACHINE EQUIPMENT LIST

- 1A) Winch (3Ton, 5Ton, 7.5 Ton)
 - B) 3YDA Engine and 4YDA Engine & 6YDA Engine
 - C) Engine leg Bolt $\frac{3}{4}$ *3" = 4 Nos with Nut +Washer
 - D) Engine Belt----- 4 Nos
2. A) Typaidset: - 1No main leg, 2 No Side legs + Typaid shoe
 - B) TypaidPulley with pin: - Pin size 9" long Dia 2.5"
 - C) TypaidPin: - 17" long Dia 62 M.M
 - D) Typaid Belt: - Main belt length 8" *1"
 - F) Side leg 8 Nos Bolt: - Size 5/8 *3" F.T. with Washer
 - G) 1No Diesel drums with 2 Nos 20 liter plastic jars
3. A) 1 No Bailer
 - B) 1 No Chisel
 - C) 1 No Casing
4. 1 set Treame: - With bottom + Treame head
 5. 1 No Hopper with 1 No charger
 6. D.M .C pipe with D.M.C head
 7. 1 No Chut-cart: - with chut cut bearing 4sets
 8. Treame lock and D.M.C lock
 9. Welding Machine, Cable & Welding Rod

Accessories:-

10. A) 'D' shekel 2 Nos 5 Ton capacity
- B) 1.25 *7' Bolt for 'D' shekel
- C) Wire Clamp – 25 M.M
- D) Hoarse clamp -- 2.5"
- E) Hoarse pipe -- 2.5"
11. S.P.4.L Pump with Engine +Sanction + Foot valve +Drum (If with water cool Engine)



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Piling Equipment's List & Application (DMC & Auger)

Methods:--

DMC Pile foundation:--Direct Mud Circulation Method/Bailer Boring Method

Augor:--using Cutter/Auger (Manual) this Method is done

No	DMC Piling equipment	Augor Piling equipment	Application/Use
1.	Winch Machine (3 Ton +5 Ton +7.5 Ton) capacity assembled with Motor or Engine (Ruston YDA) used as prime Mover /power source	Manual Hand Winch (Double Penian) manually operated No engine/motor used	USE in Pile foundation Boring Machine /Piling Winch Note:--According to soil strata usage of equipment& Method varies/depends
2.	Tripod Set Main Leg –8.2 meter Secondary Leg :--7 meter assembled with Tripod pulley Shoe Weight:--1200 Kg (set)	Tripod Set Main Leg –8.2 meter Secondary Leg :--7 meter assembled with Tripod pulley & Hand Winch is fitted on it Weight:--600 Kg (set)	Used as Nomal Tripod (Pulley fitted at top) used for Pile Boring at specific location
3.	Chisel/Cutter Weight/Diameter/Design specification changes according to the working pile dia nature of soil Boring Length	Augor /cutter Normally Manual type with 7 plates 1.1 meter length changes according to dia	Used as a cutter to do the Boring/piling work at desired location Note:-- As per pile dia 70mm clearance is provided for cutter O,D as per IS code
4.	Bailer Weight/Diameter/Design specification changes according to the working pile dia nature of soil Boring Length	Bailer not used	Used as a hammer to place the casing & also Bail-out the soil for the first time Note:-- in case of bailer boring it washes/cleans the bore
5.	Casing According to pile dia (ID) casing changes	Casing According to pile dia (ID) casing changes	Normally it protects the upper soil collapse during boring/piling operation
6.	DMC Pipe Normally used as a dill Rod attached with the chisel & it supplies water at the end point of the bore Direct Mud Circulation	Meter Rod Works as a extension Rod attached with the Augor	In DMC pile supplies the water at the end point & also works as an extension Rod In Augor pile only works as a extension Rod
7.	Tream Pipe (Size:-6".8",10") Used for concerting purpose	Tream Pipe (Size:-6".8",10") Used for concerting purpose	To protect the concrete from water or any chemical substance
8.	Hopper/Concerting funnel	Hopper/Concerting funnel	Used as funnel at the time of concreting concrete is poured into
9.	Head Lock tools are used	Head Lock tools are used	Normal attachment
Note:-- In case of Piling works three items Bailer casing chisel (item No—3,4,5) changes according to Dia all other items are same DMC Pipe & Tream pipe changes according to pile/boring length			
Note: - According to your working requirement (Pile Dia, Pile Length, soil, Environment) Equipment and Accessories and Price may vary...)			

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D.M.C Piling Winch Machine



Bored Piling Winch is famous for its unique design, good service & robust construction, cone clutch for free operation. Carbon steel shaft, heat treated pinion for smooth functioning. Fabricated Iron structure. Heavy duty Bearings, The range we offer is made with the latest technology and is used in diverse applications.

Capacity/Model: - 3.5 Ton, 5 Ton, 7.5 Ton

For---400mm to 600 mm 25 meter ---- 3 Ton Capacity Machine Self Weight:---1.5 Ton

For---600mm to 1200 mm 40 meter ---- 5 Ton Capacity Machine Self Weight:---1.8 Ton

For Higher Dia or Higher Length hot hard soil ----7.5 Ton Capacity Machine is used



Specification:--Chassis /Frame Make of 250mm/200mm/300mmSMB heavy frame carbon steel pinion(big & small) C.I drum gunmetal bush fitted EN-8 (class—4) carbon steel sap spherical roller bearing.42 inch 6-goup C-section wheel prime quality linear & brake shoe with wooden sleeper fitted

Note:--Motor or Engine is used as a power source (36 HP/52 HP/78HP) according Dia Length & nature of Soil /tension load prime mover/power source varies/changes

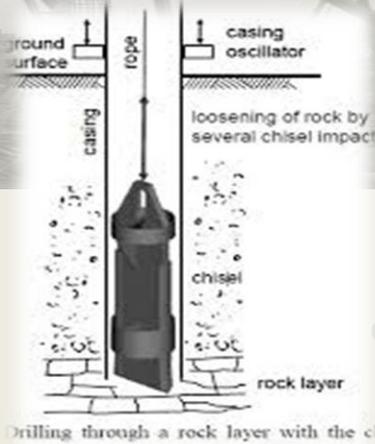
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Heavy Duty Chisel



We are offering Chisel which is having durability and reliability in use. These are tested stringently for quality before being supplied to our clients to ensure that our clients get nothing but the best.

The materials used in the manufacturing of the chisel are of superior quality that further ensures optimality performance in the respective applications. Moreover, the unmatched quality and unbeatable performance has also made the entire array of chisel highly distinguished in the market (Weight:-- 1.5 Ton To 4 Ton) according to working criteria



Note: -- According to pile Dia/Length/Nature of soil (Rock clay gravels) weight & capacity of the chisel/cutter changes Normally class-4 carbon steel material used Plate thickness: -- 70mm/80mm/100mm/110mm

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D.M.C Pipe/DMC Head



We offer to our valued customers a supreme quality range of DMC Pipe. This is available in various sizes and dimensions. This is made of M.S. Iron Pipes (seamless) and electrically welded with number male and one number female (O.N.G.C Socket) D.M.C. Sockets at both the end.

Specification:--- 10mm thickness ONGC (original) heavy duty Pipe both side male female socket attached (MIG Welded)

Length –3 meter (standard) weight:--150 kg(Approx.)



Features:

- ❖ High tensile strength
- ❖ Dimensionally accurate

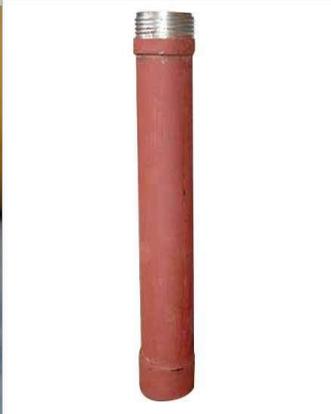
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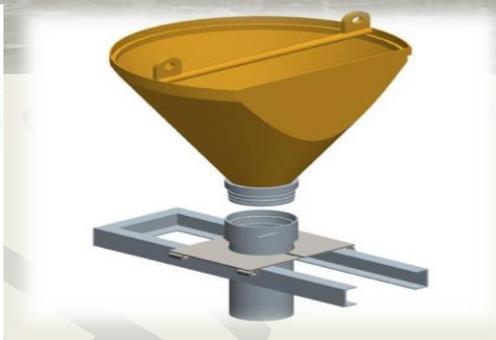


Treamie Pipe & Hopper (Concerting Funnel)



We are reckoned in the industry for our ability of manufacturing and supplying a highly qualitative range of Treamie Pipes. Known for their matchless quality and features. Our entire product range is strictly examined on defined industrial standards.

Specification: -- 6inch/8inch/10inch Treamie pipe make of 4mm/5mm/6mm prime quality (Jindal Bansal/Nizione) ISI ARW Pipe with prime quality male female socket attached (Mig Welded) on Both Side (Length:--1.5meter/2meter/3meter) accordingly



With our industrial experience we serve our clients with an exclusive range of Hopper. We are engaged in manufacturing a wide range of Hopper which is fabricated in line with the industrial quality & standards. Sturdy and robust in construction, these heavy duties Hoper are widely appreciated by our clients for high service life (**Hopper I.D—1300mm &1500mm (Big Size)**)



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Tripod/Rig Set



We manufacture Tripod Set for D.M.C Bore piling applications & Augur according to specific requirements of clients. It is tested on various quality parameters that assure our clients of the superior quality of the product. It is tested in various parameters and it is capable of handling high load capacity. These heavy duties Tripod are widely appreciated by our clients for high service life

Specification:-- Main Leg—8.2 meter & Secondary Leg—7 meter (Box & Fluntch Joint system make of –ISA 130x10 with pulley fitted at top (18 inch) shoe Lifting plate Pin all complete set

Bailer



We are offering to our clients, Heavy Bailer & Casing, which are widely used in Civil Piling industries. These are available with qualitative functioning. We can provide these to our clients in various specifications as per their variegated requirements. These Bailer & Casing are tested on various quality parameters that assure our clients of the superior quality of the products.

Features:

- ❖ Corrosion resistant
- ❖ Long functional life
- ❖ Reliable

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Treame Head & Lock



We offer a wide range of Treame Head and DMC Head that are regulated and suitable for various applications. Essential for various industrial purposes. Treame Head and DMC Head been proven to be reliable. These trimmer heads are tested on various quality parameters that assure our clients of the superior quality of the products. Available in different specifications, these can also be provided as per the requirements of the clients

Ruston Engine (3YDA 4YDA & 6YDA)



Chut-Cart is used for Carrying concerting material at job site. The 4YDA & 6YDA Engine is attached with the winch Chassis and it is connected with a V-Belt with the winch wheel So it Can carry-out the load capacity of the Machine & it functions Smoothly

Diameter & Length	Winch Machine	Engine (Ruston)	Motor
Dia :--400mm to 600mm Length:--20 meter--- 25 meter	3.5 Ton Winch Machine	36 HP Ruston 3YDA Diesel Engine (Recon.)	40 HP 1440 Rpm motor (kirloskar/cromton)
Dia :--600mm --- 1200mm Length:--25 meter--- 40 meter	5 Ton Winch Machine	52/78 HP Ruston 4YDA/6YDA Diesel Engine (Recon.)	60 HP 1440 Rpm motor (kirloskar/cromton)
Dia :--1200mm to 1500 mm Length:--25 meter--- 40 meter	7.5 Ton Winch Machine	78 HP Ruston 6YDA Diesel Engine (Recon.)	80 HP/100HP 1440 Rpm motor

Note:-- According nature of Soil (Rock/gravels/hard rock) Working pile Length & Dia Specification may change & Oil Starter or Dry Starter is used or attached with Motor

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Vertical Pump with (20 HP Motor)

Our **VERTICAL PUMPS** are basically designed for Construction Industry, for mixing and pumping of Bentonite clay used in piling work. The Pump has vertical format design, Top Suction, Cantilever Type of Bearing Housings, while the drive motor is located at the top. The design of the pump is such that it mixes as well as it pumps the Bentonite slurry, thus giving the effect of churning the Bentonite Slurry in the tank.

This pump can be hung in the tank by means of chain pulley blocks or any other conventional method so that it can be lowered or raised as per the level of the Bentonite in the tank. Bentonite Mixing Pump is used to mix and pump Bentonite Slurry during the Pilling Process in Construction Industry. The material is such as to withstand the abrasive nature of the slurry during Pilling Process.



Typical Application

- ❖ Bentonite supported piling with grabs small diameter drilling for injection and anchors.
- ❖ Well drilling occasionally used in combination with tunneling machines.



TECHNICAL SPECIFICATION

Capacity (m ³ /hr.)	60-108	<u>Mounting</u>	<u>Vertical</u>
Head (mts)	15-27	<u>Absorbed Power (kW)</u>	10
Sp. Gr. of Slurry	1.15	<u>Motor Rating (kW)</u>	11
Pump Speed (RPM)	1400	<u>RPM</u>	1450
Wear Parts	Hi-Chrome	<u>Frame Size</u>	160 M
Discharge dia. (mm)	75	<u>Working Pressure(bar)</u>	16
Suction dia (mm)	125	Used	Piling works

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Vaxil Pump



✚ 20 HP Vaxil Mud Pump is used in Piling Work as Mud Pump to Supply water to the bore during Boring & to wash the bore before Concentring **Power Source**:--- 30 Hp Motor /24 HP Engine

✚ Capacity (m³/hr.)----- 400

Typical Application:

- ❖ Water treatment & distribution system for Constructions
- ❖ Bore Piling Works

✚ **Stuffing Box:** ---The stuffing box is sealed by gland packing or by mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardized parts. Re-machining of stuffing box is not necessary. Stuffing box cooling is provided for high temperature applications.

✚ **Bearings:**--The bearings are oil lubricated. For high temperature application, bearing oil cooling arrangement is provided.

✚ **Direction of Rotation:** -----Clockwise viewed from driving end.



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Workshop Album:-



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Jobsite Album



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Workshop Team:-



We Manufacture Export & Supply complete Set (DMC Augur Bore pile) soil Testing Equipment with all needed Tools & Tackle complete Like Pump Engine Generator Set in various parts of west Bengal & India . All The Products are make of Prime Quality M.S Plate & Tested in various Industrial Parameter to Ensure the longevity & proper functioning of the Equipment that Ensure a healthy and wealthy service to Our clients.

Manufacturer & Exporter Of Conventional Piling Equipment, DMC Rig Machine & Accessories

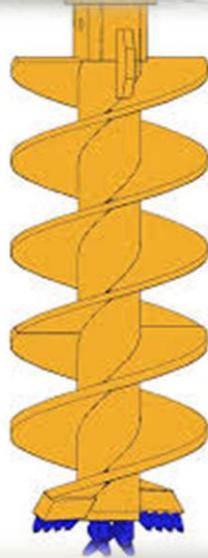
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Augor Piling Equipment's



Normally Manual Augor is used in clay Soil (150mm-450mm) bore short length piling works



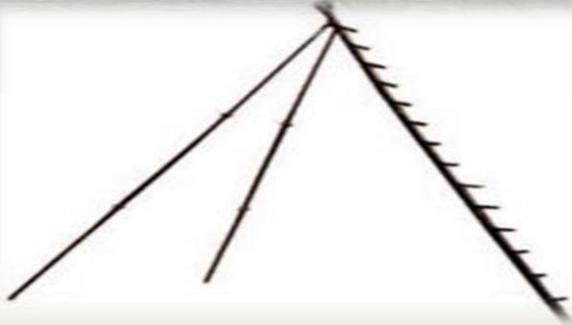
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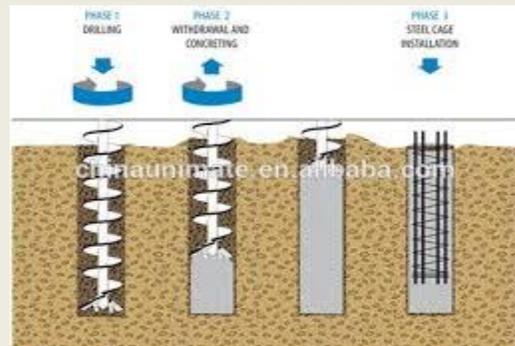
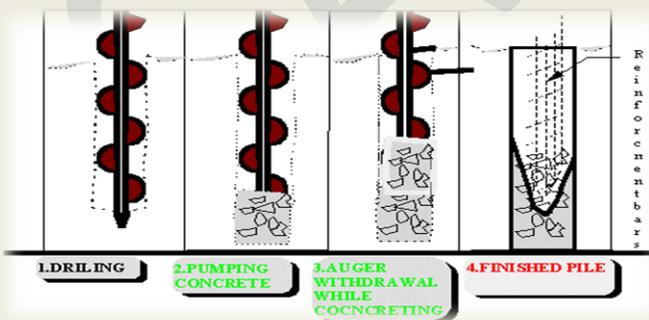


Auger Piling Hand Winch (Manual)



The installation process and methods of pile foundations are equally important factors as of the design process. Pile foundation installation methods are by pile hammer and boring by mechanical auger.

Equipment comprises of a mobile base carrier fitted with a hollow-stemmed flight auger which is rotated into the ground to required depth of piling. To form the pile, concrete is placed through the flight auger as it is withdrawn from the ground. While rotating the auger in the same direction as during the boring stage, the spoil is expelled vertically as the auger is withdrawn and the pile is formed by filling with concrete.



To avoid damages to the piles, during design, installation Methods and installation equipment should be carefully selected.

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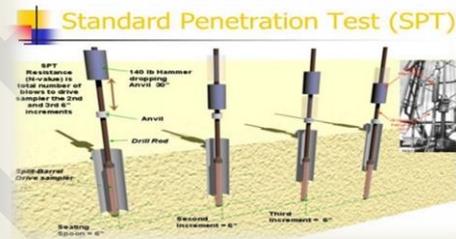
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Soil Testing Equipments (SPT Set)



A soil test (SPT) determine the soil bearing capacity of the soil before doing any Structure Like (Building,Bridge,house,multistoried SPT:- Soil Penetration Test



Procedure

The test uses a thick-walled sample tube, with an outside diameter of 50.8 mm and an inside diameter of 35 mm, and a length of around 650 mm. This is driven into the ground at the bottom of a borehole by blows from a slide hammer with a mass of 63.5 kg (140 lb) falling through a distance of 760 mm (30 in). The sample tube is driven 150 mm into the ground and then the number of blows needed for the tube to penetrate each 150 mm (6 in) up to a depth of 450 mm (18 in) is recorded. The sum of the number of blows required for the second and third 6 in. of penetration is termed the "standard penetration resistance" or the "N-value". In cases where 50 blows are insufficient to advance it through a 150 mm (6 in) interval the penetration after 50 blows is recorded. The blow count provides an indication of the density of the ground, and it is used in many empirical geotechnical engineering formulae.

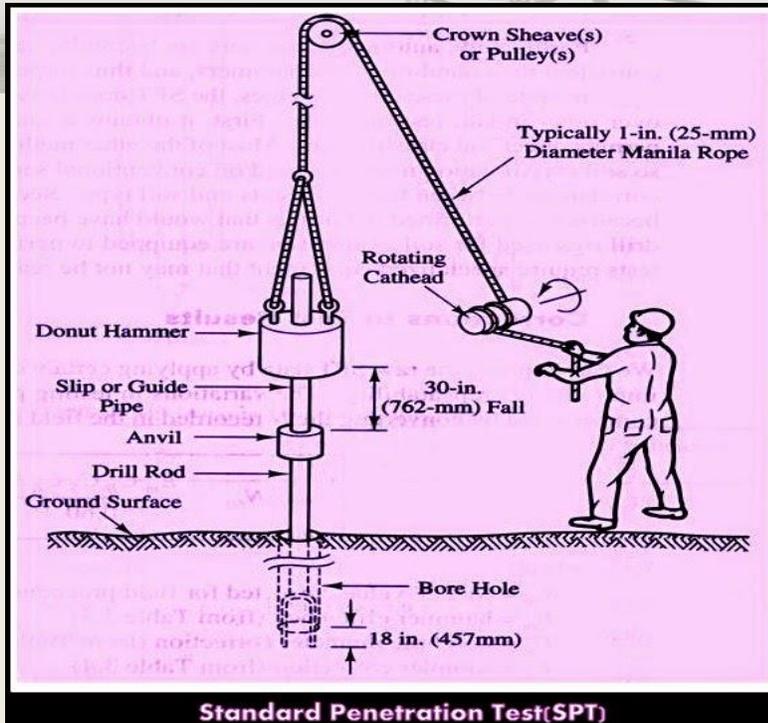


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The main purpose of the test is to provide an indication of the relative density of granular deposits, such as sands and gravels from which it is virtually impossible to obtain undisturbed samples. The great merit of the test, and the main reason for its widespread use is that it is simple and inexpensive. The soil strength parameters which can be inferred are approximate, but may give a useful guide in ground conditions where it may not be possible to obtain borehole samples of adequate quality like gravels, sands, silts, clay containing sand or gravel and weak rock. In conditions where the quality of the undisturbed sample is suspect, e.g., very silty or very sandy clays, or hard clays, it is often advantageous to alternate the sampling with standard penetration tests to check the strength. If the samples are found to be unacceptably disturbed, it may be necessary to use a different method for

measuring strength like the plate test. When the test is carried out in granular soils below groundwater level, the soil may become loosened. In certain circumstances, it can be useful to continue driving the sampler beyond the distance specified, adding further drilling rods as necessary. Although this is not a standard penetration test, and should not be regarded as such, it may at least give an indication as to whether the deposit is really as loose as the standard test may indicate.

The usefulness of SPT results depends on the soil type, with fine-grained sands giving the most useful results, with coarser sands and silty sands giving reasonably useful results, and clays and gravelly soils yielding results which may be very poorly representative of the true soil conditions. Soils in arid areas, such as the Western United States, may exhibit natural cementation. This condition will often increase the standard penetration value.

The SPT is used to provide results for empirical determination of a sand layer's susceptibility to soil liquefaction, based on research performed by Harry Seed, T. Leslie Youd, and others.



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Price List for DMC Piling Rig Set

<u>NO</u>	<u>DESCRIPTION</u>	<u>Quantity</u>	<u>RATE (INR)</u>
1)	Winch Machine 7.5 ton capacity make of ISMC 250 heavy Frame 11 feet long chassis Heat treated Carbon Steel penian so it can carry sufficient amount of load without any trouble with Special Drum lock foot brake system wooden sleeper attached	1 Set	Rs. 3,36,000/-
	Winch Machine 5 ton capacity make of ISMC 250 heavy Frame 10 feet long chassis Heat treated Carbon Steel penian so it can carry sufficient amount of load without any trouble with Special Drum lock foot brake system wooden sleeper attached	1 Set	Rs. 2,94,000/-
	Winch Machine 3 ton capacity make of ISMC 250 heavy Frame 10 feet long chassis Heat treated Carbon Steel pinion so it can carry sufficient amount of load without any trouble with Special Drum lock foot brake system wooden sleeper attached	1 Set	Rs. 2,28,000/-
2)	6YDA Ruston Engine Make by Greaves Cotton Reconditioned (Power 78 HP) Fitted on Heavy metal chasis extended with Line Sap for attachment Winch Machine diesel operated handle start (For Self start:-- Rs 25000/- extra)	1 Set	Rs 1,80,000/-
	3YDA/4YDA Ruston Engine Make by Greaves Cotton Reconditioned (Power 36/52 HP) Fitted on Heavy metal chassis extended with Line Sap for attachment Winch Machine diesel operated handle start (For Self start:-- Rs 25000/- extra)	1 Nos	Rs 1,56,000/-
3)	Heavy duty Tripod Set (8.2 meter x 7 meter) meter with Tripod shoe pulley (Gun Metal Bush) pulley Section:--130 x10	1 set	Rs 1,14,000/-
	Normal Tripod Set (8.2 meter x 7 meter) meter with Tripod shoe pulley (Gun Metal Bush) pulley lifting plate Pin (2) Section:--110 x10 ISA	1 set	Rs 1,08,000/-
4)	Bailer Make of prime Quality steel plate with Hard Face Edge and Plate Lock system at the bottom cutting Shoe	As Per Requirement	Rs 78/-Per/Kg
5)	Chisel Make of prime Quality steel plate Weight:--1.2 ton to 3 ton according to dia /length/nature of soil	As Per Requirement	Rs 78/-Per/Kg
	Chisel Make of prime plate Class 4 carbon steel plate (Containing 30% to 40% Carbon) Weight:--1.2 ton to 3 ton according to dia /length/nature of soil	As Per Requirement	Rs 84/-Per/Kg
	Rock Chisel make of prime Quality steel plate with carbon steel Eight No's cutting teeth heavy duty spl. Designed for rock cutting	As Per Requirement	Rs 90/- per/Kg
6)	Casing Make of prime Quality steel Plate 30/40 mm Top collar with base plate support and hole system & Body make of 8mm plate	As Per Requirement	Rs 78/-Per/Kg
7)	DMC Pipe (10 mm thickness) ONGC heavy duty with both side male/female socket welded (Length:--3 Meter/Per/Pipe)	As Per Boring Depth/Length	Rs 4200/- Per/meter
7)	Treame pipe (7"/8"/10" Dia) make of 4mm (Jindal/Nizone/Bansal)ISI Pipe ARW with both side male female Socket welded & fitted Length:--1.6meter/2meter/3meter	As Per Boring Depth/length	3000/- Per/meter
8)	Hopper/Funnel Heavy duty 1300 I.D.	1 set	Rs 21,600/-
9)	Hopper/Funnel Heavy duty 1500 I.D. for 1 cubic Meter Concrete	1 set	Rs 26,400/-

IN PILING WORK BAILER CASING CHIESEL CHANGES ACCORDING TO PILE DIA

Note: - According Pile Dia /Length/Mature of soil/Piling equipments specification may differ
As a prime mover / Power Source / in case of Diesel Engine Motor can be used (40/60 HP)

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Price List for DMC Piling Rig Set

NO	DESCRIPTION	Quantity	RATE (INR)
10)	D.M.C Head	1 Psc	Rs 6000/-
11)	D,M.C platform /Treame platform	1 Psc	Rs 5000/-
12)	Treame lifting /Flashing Head	1 Psc	Rs 4,500/-
13)	Treame Lock	1 Psc	Rs 4,500/-

Price List for Augor (Manual) Piling Rig Set

No	Description	Quantity	Amount(Rs)
1.	7x6 Meter Tripoid Rig Complete Set with pulley pin make of	1 Set	42,000.00
2.	Hand Winch With Heavy Double penian Penian Handle used in Augor piling works	1 Nos	25,000.00
3.	Treame Pipe 7" complete set with male female socket attached both side @ Rs 2400.00/-Per/meter	As per working requirement	Rs 2400/-per/mtr
4.	Guide Casing 450 M.M Dia (Length:--2.5 meter	1 Nos	28,000.00
5.	Hopper/Concerting funnel	1 Nos	22,000.00
6.	Augor 450 /500/600/mm dia (7 plate Manual Augor with cutting knife at the edge & Fluntch at the top Length:---4ft (According to pile dia Augor Diameter changes)	400mm	12000/-
		450mm	14000/-
		500mm	18000/-
		600mm	22000/-
7.	Miter Rod @ Rs 1400.00/-Per/meter	20 meter	28,000.00
8.	Boring Guide	set	4,000.00
9	Miter Head Treame Head Lock etc	1 complete set	8,000.00/-

Price List for Soil testing Equipment's(SPT)

Sl no	Description Of Item	Quantity	Amount
1.	Typoid with Hand Winch Double Penian System Complete Set	1 Set	25,00.00/-
2.	Drill Rod (A/W) with Coupling 3 meter	1 Psc	3500.00/-
3.	Drill Rod (A/W) with Coupling 1.5 meter	1 Psc	2500.00/-
4.	Hammer (Weight 63.5 Kg)	1 Psc	7,000.00/-
5.	A/W Jar Block	1 Psc	1,800.00/-
6.	S.P.T complete set	1 Set	3,600.00/-
7.	A/W hosting Plug Bearing system	1 Psc	1,600.00/-
8.	5.5" Augur	1 Psc	3,200.00/-
9.	A/W Coupling	1 Psc	400.00/-
10.	S.P.T Cutting Shoe	1 Psc	1200.00/-
11.	Jarring link complete set	1 Psc	1,800.00/-
12.	4" sample tube 450 cm long each	1 Psc	1,000.00/-

Metalix Engineering (Kolkata India)

Office Address:--65/2 Satyen Roy Road Behala Kolkata:-34

Contact No:--9874065259/9874665259/8621904924



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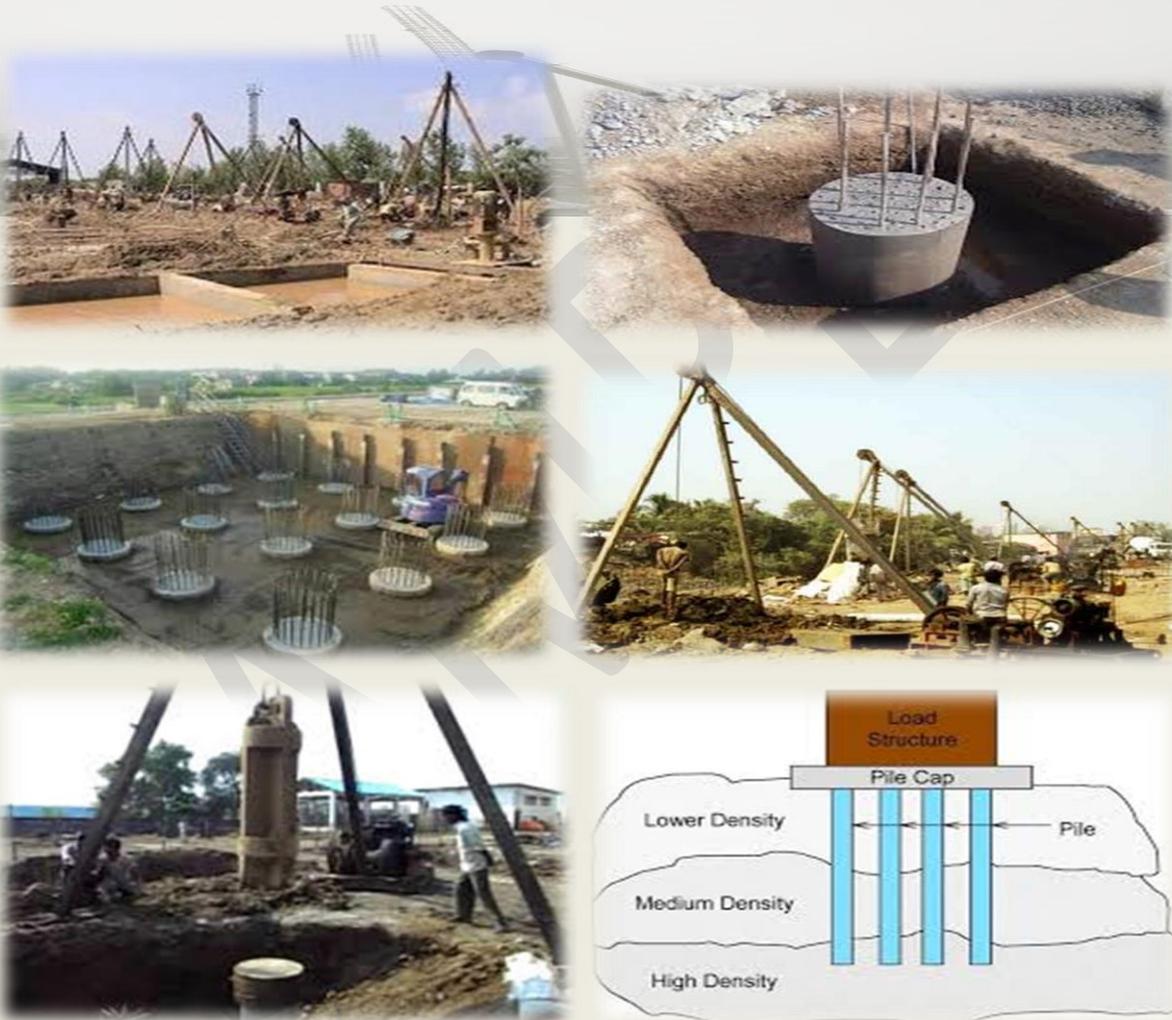
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Website:--www.pilingmachineindia.com



MANUFACTURING RELATIONSHIP DISTRIBUTING QUALITY

We Manufacture & Supply all kind of Piling Equipment complete Set (DMC Augur Bore pile) soil Testing Equipment with all needed Tools & Tackle complete Like Pump Engine Generator Set in various parts of west Bengal & India & other countries . All The Products are make of Prime Quality M.S Plate & Tested in various Industrial Parameter to Ensure the longevity & proper functioning of the Equipment that Ensure a healthy and wealthy service to Our clients

