



Drilltech
Engineers Pvt. Ltd.

IT'S NOT
JUST DRILLING
IT'S ABOUT
IN DEPTH ENGINEERING



Drilltech Engineers Pvt. Ltd.



Certified ISO 9001 : 2015



IN DEPTH ENGINEERING

Drilltech Engineers Private Limited was established in 1990. In a short span of 31 years, Drilltech Engineers Private Limited, today is a leading company of Piling Foundation, Engineering and Infrastructure Development with a primary focus on Development of Commercial and Residential buildings, Towers, Metro Rail, Bridges, by using Hydraulic Rotary Rigs like HR 130, HR 180 and continues to strive for Excellence. Drilltech Engineers Private Limited, led by Mr Salauddin Shaikh maintains the reputation of being the best in the industry and strives to build upon its competitive strengths and business opportunities to become a leading construction and infrastructure company in India. Drilltech Engineers Private Limited. Has been most active in Mumbai, and all major cities in Western, Southern & Central India. It also undertakes Geo-Technical Investigation work using Cylex Machinery, Rock Anchors by crawler machine and Micro Piles by using DTH Machinery.





600 mm Diameter of 130 pile at R. R. CONSTRUCTION



PILING SERVICES

We specialize in offering end to end solutions in piling. We are often acknowledged for offering best solutions within least possible time, with the help of Hydraulic Rotary Pile, normal Rotary Pile and Rotary Pile by HR 130 & HR 180, we redefine piling services with effectiveness, with innovative techniques and unmatched expertise, and we exceed the quality standards of the industry. Our services have gained wide appreciation for timely execution and cost-effectiveness.

SECANT PILES

Primary piles will first be installed alternately, these piles will be of un-reinforced concrete of M15 mix with a minimum slump of 175 mm. These piles do not have to be installed to the same length as the secondary or intermediate or reinforced piles which follow.

Secondary piles will then be installed between the primary piles, 24 hours after the construction of primary piles. Pile overlap will be 0.5% of pile length or 75 mm or 12% of pile diameter, whichever is more. Thus by the 2nd criteria, pile centre to centre spacing will be $D-75$ mm. The secondary piles will be reinforced piles of M25 concrete strength with a minimum slump 150mm. These piles will be installed with rotary hydraulic piling rigs, equipped with a heavy coring pipe whose cutting edge is toothed and enables to cut into the concrete of initial primary piles.

MICRO PILES BY DTH

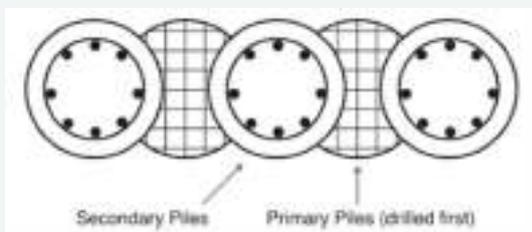
These rigs are only used when there is a space constraint near the existing foundation of Structures & to avoid noise pollution. These rigs are often used basically for Basalt or Breccia where the required quality of the rock is very high By Hydraulic Rig (DTH Method): In this process, the Pile is directly drilled throughout to the designed depth.



360 pile at Turbhe Site **HINDUSTAN PLATINUM PVT. LTD.**



Foundation Pile



Shore Pile



Rock Anchor 45 Degree

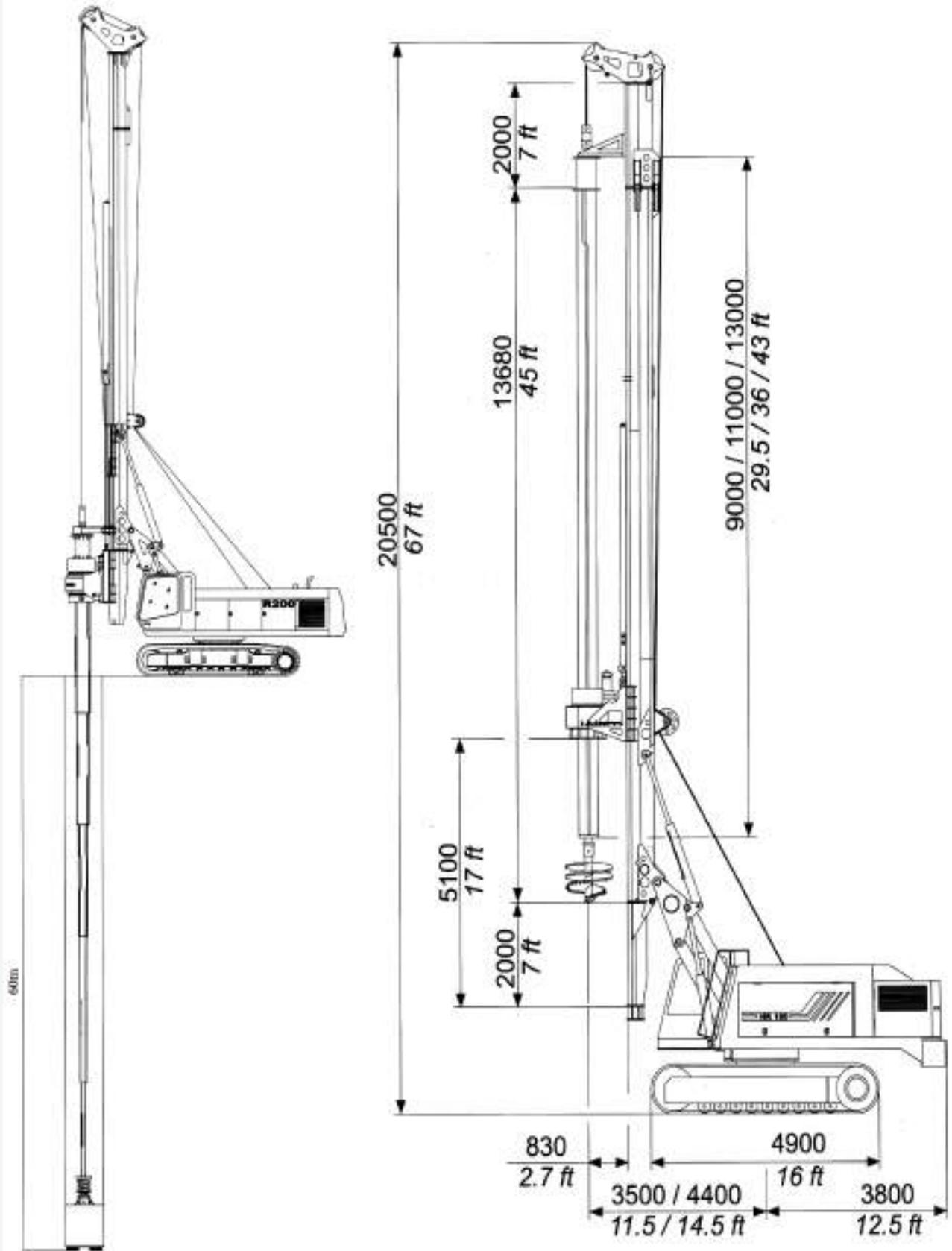
METHODOLOGY FOR CAST IN SITU BORED PILES (ROTARY METHOD)

1. Shifting of the Hydraulic auger to the required pile and centre to be done accurately with the help of plumb bob.
2. Auger to start the boring and the bottom casing to follow next.
3. The centre and the alignment of the bottom casing to be scrutinized accordingly with reference points marked at a right angle.
4. The bore to be drilled and developed by the auger.
5. Bentonite Slurry to be used if required in case of retaining walls of the bore.
6. The indigenously designed auger that performs on any surface including rock to be used in developing the bore.
7. Hard surfaced conical teeth made of tungsten carbide are present in the auger. Such a mechanism can develop the bore in rock also
8. The bucket shall be withdrawn from the hole and on opening bottom of hinge, the admitted muck will be discharged on ground.
- . On achieving the desire strata, a series of events to follow, viz. the steel cage to be lowered followed by lowering of Tremie.
10. The concreting operation to be carried out as outlined in IS 2911 sec.



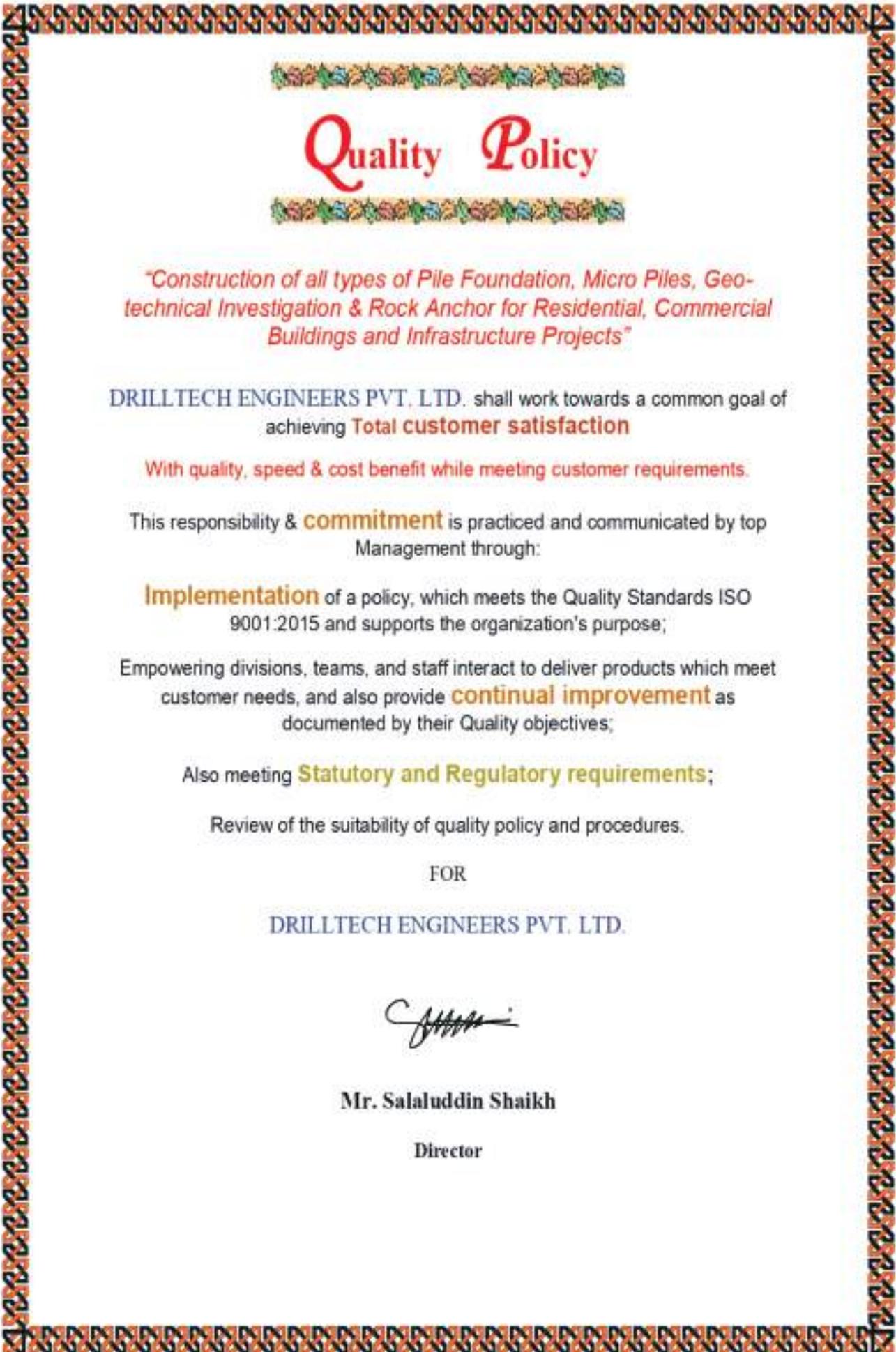
Pile (600 mm and 700 mm diameter) at Piles at Sunteck Phase - III Naigaon, SUNTECK REALTY LTD

METHODOLOGY OF PILING



For cleaning the bottom of the Borehole

For Drilling of Borehole



Quality Policy



"Construction of all types of Pile Foundation, Micro Piles, Geo-technical Investigation & Rock Anchor for Residential, Commercial Buildings and Infrastructure Projects"

DRILLTECH ENGINEERS PVT. LTD. shall work towards a common goal of achieving **Total customer satisfaction**

With quality, speed & cost benefit while meeting customer requirements.

This responsibility & **commitment** is practiced and communicated by top Management through:

Implementation of a policy, which meets the Quality Standards ISO 9001:2015 and supports the organization's purpose;

Empowering divisions, teams, and staff interact to deliver products which meet customer needs, and also provide **continual improvement** as documented by their Quality objectives;

Also meeting **Statutory and Regulatory requirements**;

Review of the suitability of quality policy and procedures.

FOR

DRILLTECH ENGINEERS PVT. LTD.



Mr. Salaluddin Shaikh

Director



CERTIFICATE

*This is to Certify that the
Quality Management System
of*

DRILLTECH ENGINEERS PVT. LTD.

505 / B, Kanara Business Centre, Next to Everest Garden Building, Near
Laxmi Nagar Bus Stop, Ghatkopar (E), Mumbai 400075, India.

has been independently assessed and is compliant
with the requirements of

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

**Construction of all types of Pile Foundation, Micro Piles, Geo-technical
Investigation & Rock Anchor for Residential, Commercial Buildings
and Infrastructure Projects**

Certificate No.: IN34033A

Date of initial registration	13 October 2016
Date of this Certificate	24 October 2019
Surveillance audit on or before	12 October 2020
Recertification Due / Certificate expiry	12 October 2022

This Certificate is property of LMS Certifications and remains valid
subject to satisfactory surveillance audits.

Director

For verification and updated information concerning this present certificate visit to www.lmscert.com

This Certificate is the property of LMS Certification Limited and shall be returned immediately when demanded.



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LMSIASP17AC217REV02

16th November 2019

To,

Drilltech Engineers Pvt. Ltd.
505-B, Kanara Business Center,
Near Laxmi Nagar Bus Stop,
Ghatkopar East, Mumbai – 400 075

Sub: - Letter of Appreciation

Dear Mr. Salauddin Shaikh,

On behalf of **Sunteck Realty Limited**, I would like to thank M/s Drilltech Engineers Pvt. Ltd., its project Management and workforce for their flexibility, understanding and dedication for Sunteck West World Project at Naigaon to execute cast in Situ bored Piles for foundation work and Shore Piling work at Icon & BKC-51 at Bandra Kurla Complex.

Construction initiated in September 2018 for 3000 piles which were completed before time by deputing your excellent team in association with Sunteck Realty. Your team's efficiency, hardworking workmanship was indeed a great support for completion of the above works.

The quality of service that we received from your team was much appreciated even though more volume of work added to you at a later date, which was smoothly executed by your Company with ease. Nonetheless, your organization worked well with us and was supportive in every way.

I would have no hesitation in recommending your company for similar projects; and we look forward for future association with M/s Drilltech Engineers Pvt. Ltd. for all our future endeavors

Thanking you

**Yours faithfully
For SUNTECK REALTY LIMITED**



**HARJIT SINGH BHUI
EXECUTIVE VICE PRESIDENT**

“TO WHOM IT MAY CONCERN”

This is to confirm that M/s. Drilltech Engineers Pvt. Ltd. has been awarded with two projects of Kalpataru Limited namely Kalpataru Bliss and Kalpataru Imperia.

We take this opportunity to thank M/s. Drilltech Engineers Pvt. Ltd. who had done 600 Nos. of 300 mm dia Micro Piling and 400 Nos. of 600 mm dia shore piles. These two projects were executed with high level of quality, professionalism, and smooth and On time.

M/s. Drilltech Engineers Pvt. Ltd has established their best endeavors to the extent of buying a new machine to complete the project as the strata was unpredictable.

Most importantly, Mr.Salauddin personally resolves any issues at site and we felt very comfortable with M/s. Drilltech Engineers Pvt.Ltd. as the co-ordination was so smooth and their focus on work is commendable.

We do not hesitate to recommend M/s. Drilltech Engineers Pvt.Ltd to other developers to carry out all kinds of piling works.

Thank You,



Durai Murugan
President - Projects



Drilling Test on 49 Numbers of pile at Sunteck Phase - III Naigaon, SUNTECK REALTY LTD.



SOME OF OUR SERVICES :

- Rotary Pile by Hydraulic Rig HR-130 & HR-180 Bawar BG-20 Soil Mac.
- Geotechnical Investigation, Land Soil Investigation, Marine Soil Investigation
- Rock Anchors
- **Micro Pile:** By DTH Method
- Secant Piles
- **Tools Manufacturing:**
Auger Core barrel Bucket



ROCK ANCHORING

Deals with the design and construction of temporary and permanent pre-stressed Structures Rock Anchors are post-tensioned tendons that are secured in underlying rock or another suitable surface, they are durable and very cost-effective. We install rock anchors for:

- Slope Stabilization
- Countering uplift pressure for Foundation Raft
- Pile load test



TOTAL STATION MACHINE

This is fully-automatic measurement tools that collect objective information quality metrics via surveys, to gather the information which is hard to measure technically

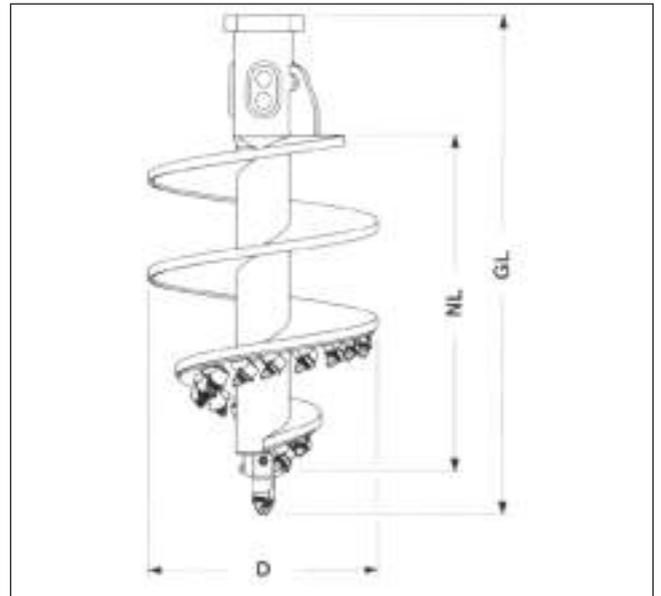
- Set up the building face as per drawings received by the client.
- Mark centre line as per drawing.
- Mark the pile (Layout) as per drawing.
- Checking the pile eccentricity after completion of piling work and submit the detail.



Permanent M.S. Liner for 700 mm Diameter of pile at **PATEL REALTY**

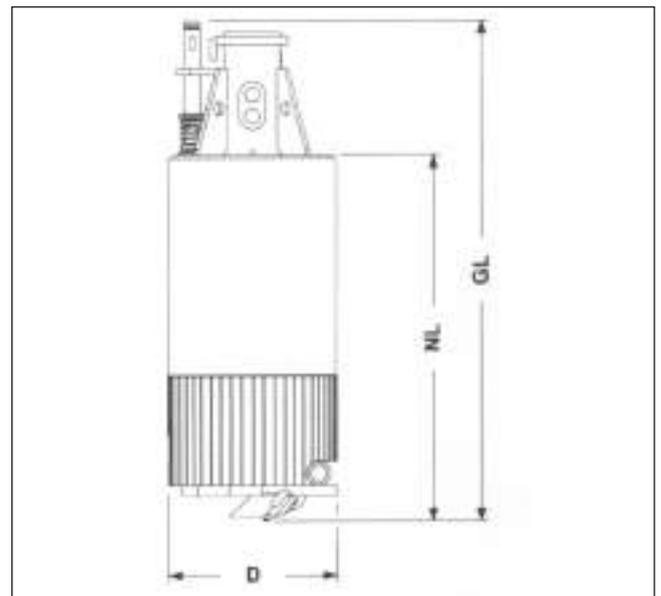
ROCKAUGER

Full-face cutting tool for a compact tightly cohesive rock suitable for drilling. It is basically used for drilling in the hard rock



BUCKETS

For cleaning the bottom of the Borehole



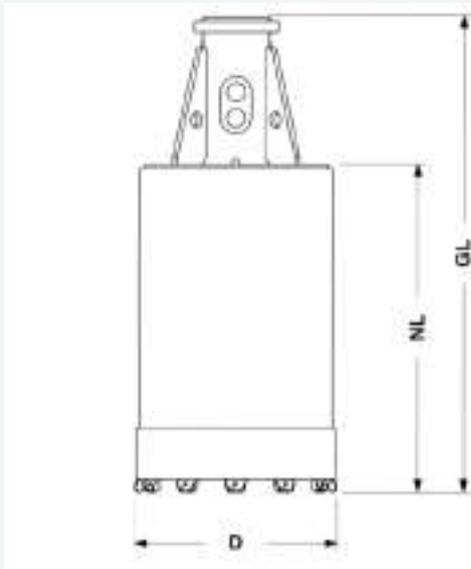


Basalt Cutting with Core Barrel of 600 mm Diameter Shore Pile at SanjogSantacruz (East), **KALPATARU LTD.**

CORE BARREL:

Core barrels are used to cut annular space. The remaining centre core is subsequently broken up and removed using a rock, Auger.

- Soil rock up to 100 Mpa.
- Slightly reinforced concrete.



Core Cutting (Black Basalt)



Piling Core Cutting Samples



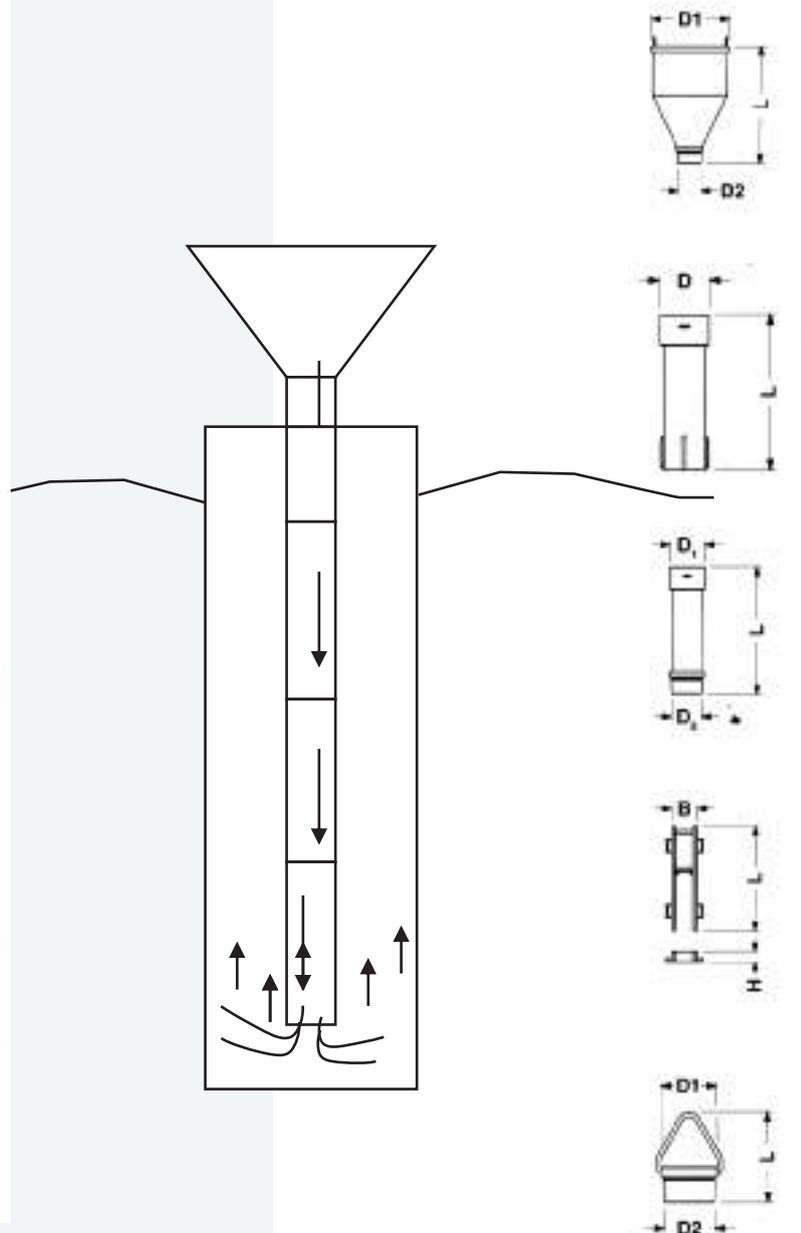
Pile (600 mm and 700 mm) at Sunteck West World - Naigaon Site, **SUNTECK REALTY LTD.**

CONCRETING WITH TREMIE PIPE

Tremie Pipe

A narrow steel pipe with hopper attached at the top end held by Crane / Service winch of Rig to pour concrete into the bore. Tremie pipe has several sections screwed together to increase or reduce the length by adding or removing the sections according to the requirement.

The correct procedure of concreting of the pile is to start pouring the concrete from the Bottom of the bore up to the top. This ensures a solid pile core without any voids.



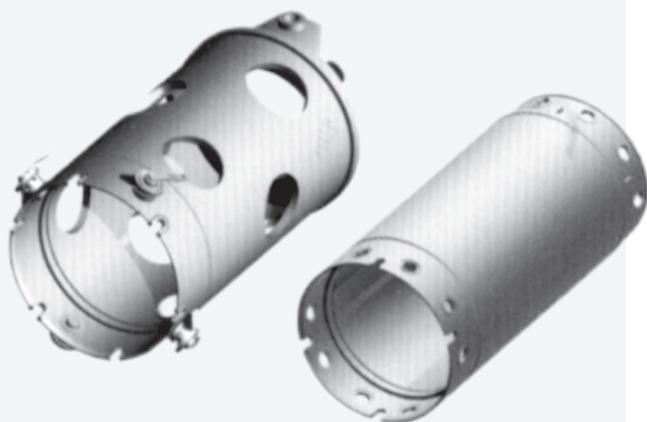
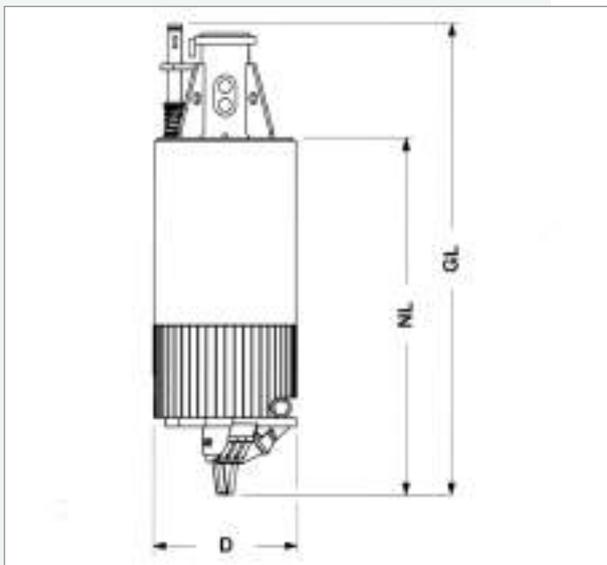


270 numbers of foundation pile (600 mm, 700 mm, and 800 mm dia.) at Parel site, **CATAPULT REALTY**



USES OF BENTONITE

- Bentonite powder is mixed with water in the required concentration in a big tank. Specific Gravity @ 1.02 with Mixer / Agitator.
- This mixture is pumped in the bore while drilling.
- The bentonite mix comes out of bore during concreting which is sucked by Vertical Mud pump and is sent to De-sander where the sand is removed from it. The powder is mixed with water in the required concentration in a big tank. Specific Gravity @ 1.02 with Mixer / Agitator.
- Mix is sent back to the tank. Bentonite Powder in the required quantity is added to the mix to maintain a level of concentration before reusing it while boring.
- Bentonite particles are very fine & light which percolates fast in the earth & blocks the natural streams of water.



CASING

- Guide Casing
- Temporary Casing
- Permanent Casing
- **Insertion & Extraction of casings**
 - By Rotary - Extraction by which or crane,
 - Casing Oscillator
 - Vibro Hammer
 - Casing Sections
 - Casing Shoes
 - Casing Joints



M.S.Liner Driven and Fixing for 700 mm Diameter of Pile at Yari Road, Versova, **PATEL REALTY**





Cage Centring of 1500 mm Diameter of pile (22 to 28 mtr. Depth) at Worli Site, **OBEROI REALTY LTD**



Cage Lifting of 1500 mm diameter of pile (25 mtr. Depth) at Worli Site, **OBEROI REALTY LTD.**



Foundation Pile (1000 mm Diameter) at Lower Parel site, **CATAPULT REALTY**



Tremie Concreting



Cage Making of (1200 mm - 1500 mm dia)



Cage Lifting by Crane & Lowering into the 1500 mm Dia Piles



Drilling 300 mm Diameter of Pile at Tata Metro Project, Dadar, **TATA PROJECT LIMITED**



Shore pile (600 mm and 700 mm Diameter) at Wadala Site, **NEW LOOK CONSTRUCTION**



140 Numbers of foundation pile (1000 mm Diameter) at Wadala Site, **NEW LOOK CONSTRUCTION**



1000 mm diameter, Depth - 12 meter,

3000 Foundation piles at Suntech



600 mm dia. at Matunga Site, SAHEJ DEVELOPERS



(600 mm to 700 mm) 305 Piles, Thane Site, **DHAMJI SHAMJI**



Pile (700 mm and 900 mm) **BACHRAJ DEVELOPERS**

IN DEPTH EXPERIENCE



Pile (600 mm Diameter) 1000 Nos. at Latur, **21 TWENTYONE SUGARS LTD.**



750 Numbers of piles, Depth 22-28 mtr. Having diameter (1200 mm - 1500 mm) by Hydraulic Rig HR-180.
At Oasis Tower Worli Project, **OBEROI REALTY LTD.**



Permanent M.S. liner for 900 mm diameter pile 29 mtr. Depth at Darya Mahal Versova, **RADIUS DEVELOPER**





360 Numbers foundation pile (600 mm, 700 mm, 900 mm and 1000 mm diameter), depth - 20 mtr.
At Govandi Site, **DOTOM REALTY.**



Shore pile (700 mm Diameter) at Andheri (East), **CHANDIWALA ENTERPRISES.**



250 Numbers Shore Pile (600 mm Diameter) at Sanjog Society, Santacruz (E), **KALPATARU LTD**





Rotary Pile at LATUR



Diameter 600 mm and 700 mm of pile drilling at Naigaon, SUNTECK REALTY LTD



270 piles of 700 mm dia. at **Goenka International School, Ulwe.**



TATIC LOAD TEST of Foundation pile (600 mm & 700 mm diameter), Depth - 12 mtr., at Sunteck City, Phase I and Phase II, Naigaon, **SUNTECK REALTY LTD.**



PILE INTIGRITY TEST for 3000 Numbers of Foundation pile (600 mm & 700 mm diameter), Depth - 12 mtr., at Sunteck City, Phase I and Phase II, Naigaon, **SUNTECK REALTY LTD.**



305 piles Basement Work after excavation of plot at **CHAKALA SITE**



600 mm dia., Depth - 13.80 mtr. Shore piling at Chakala site, **FAIRMONT CONSTRUCTION**



Inclined Rock Anchors (Number - 108) at Sanjog Society, Santacruz (East), **KALPATARU LTD**



Strut Fabrication Work at Juhu site, **DILIP J. KATHRANI**.



Inclined Rock Anchors at Thane (West), **PURANIK BUILDERS LTD**



Waller beam fabrication at Thane (West), **PURANIK BUILDERS LTD.**



600, 700 mm dia shore pile **MAHIM**



600, 700 mm Dia. Piles (800 nos. Piles) **SANJOG, KALPATARU**



Inclined Rock Anchors at Thane (West), **PURANIK BUILDERS LTD**



Waller beam fabrication with Stressing Test Complete at **BHANDUP WEST**



Rock Anchor at Bhandup West, **Cear Land Developers Ltd**



Waller beam fabrication with Stressing Test Complete at **Bhandup West**



Inclined Rock Anchoring on Shore pile at Mahim Site, **PRINCE CARE REALTY**



Passive Rock Anchor (200 mm Diameter) at Piramal Vaikunth Project Thane, **TATA PROJECTS LIMITED**



Pre-stress Passive Rock Anchor (150 mm Diameter) at Mulund site, **OBEROI REALTY LTD**



Drilling 261 number of Foundation pile (600 mm, 800 mm & 1000 mm diameter)
at Charni Road, **BHATTAD SANKALP**



260 Numbers of Shore Pile (600 mm Diameter) at Sanjog Society, Santacruz (East), **KALPATARU LTD.**



Pre-stress Passive Rock Anchor (200 mm Diameter) at Thane, **DAMJI SHAMJI SHAH GROUP**



55 Numbers of Inclined Rock Anchors at Sunteck Icon Project Kalina Site, **SUNTECK REALTY LTD**



R Reliance Realtors
& Estate Developers
An Aruna Group Venture





Loading



Unloading



Factory for repairing all Tools at **WORKSHOP**



Making of M.S. Liner & Rock Augar up to 1500 mm Piles at **WORKSHOP**



 **Drilltech**
Engineers Pvt. Ltd.

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