

**Gujarat Maritime Board  
Republic of India**

**PREPARATORY SURVEY  
ON  
THE SHIP RECYCLING YARD IMPROVEMENT  
PROJECT  
IN  
INDIA  
FINAL REPORT (APPENDICES)  
<Advanced Version>**

**July 2017**

**JAPAN INTERNATIONAL COOPERATION AGENCY**

**JAPAN MARINE SCIENCE INC.  
PADECO CO., LTD.  
JAPAN DEVELOPMENT INSTITUTE CO. LTD.**

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## Appendices

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## Appendix 1 Observation of Fuel Tank Cleaning





No : 1  
Date : 2016.5.25  
Title :  
Report :

After beaching  
make a hole on hull plate  
put hose into the tank  
& pumped out FO



No : 2  
Date : 2016.5.25  
Title :  
Report :

Suction hose  
Polyethylene  
50A~65A



No : 3  
Date : 2016.5.25  
Title :  
Report :

Residual Oil  
required 4-7 days  
to pumped out all





No : 4  
 Date : 2016.5.25  
 Title :  
 Report :

Tank after cleaning  
 It may be washed out by  
 Sea water  
 No oil residue is found



No : 5  
 Date : 2016.5.26  
 Title :  
 Report :

Gas detecotr  
 for  
 •Flamable Gas (LEL%)  
 •Oxygen  
 •hydrosulfuric  
 •CO



No : 6  
 Date : 2016.5.26  
 Title :  
 Report :

FO Tank under cleaning  
 Sawdust of sand is used  
 Bottome is cleaned, but  
 walls are covered by  
 oil, sludge.  
 May be difficult to  
 clean by the conventional  
 method



Photos

Site survey on FO tank cleaning conditions



No : 7  
Date : 2016.5.26  
Title :  
Report :

No oil is seen on the floor



No : 8  
Date : 2016.5.26  
Title :  
Report :

Residual oil under the frame  
It is difficult to collect or clean



No : 9  
Date : 2016.5.26  
Title :  
Report :

Open space can be cleaned easily



No : 10  
 Date : 2016.5.26  
 Title :  
 Report :

Deep tank  
 Even high pressure  
 cleaning system is  
 introduced, higher part  
 shall be carefully cleaned



No : 11  
 Date : 2016.5.26  
 Title :  
 Report :

Removed pipes  
 exposed under the sun.

No gas cutting is applied  
 removed at flange section



No : 12  
 Date : 2016.5.26  
 Title :  
 Report :

Many residual oils are  
 found in pipes



Photos

Site survey on FO tank cleaning conditions



No : 13  
Date : 2016.5.26  
Title :  
Report :

In Engine Room  
Oils on the floor are found



No : 14  
Date : 2016.5.26  
Title :  
Report :

In Engine room  
small but oils are leaked



No : 15  
Date : 2016.5.26  
Title :  
Report :

No oil pan is provided





No : 16  
Date : 2016.5.26  
Title :  
Report :

Saw dust for cleaning  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



No : 17  
Date : 2016.5.26  
Title :  
Report :

Oil sand (after cleaning)  
collected in the bag  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



No : 18  
Date : 2016.5.26  
Title :  
Report :

after sand to the bottom  
scoop it out and  
collected into the bag  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

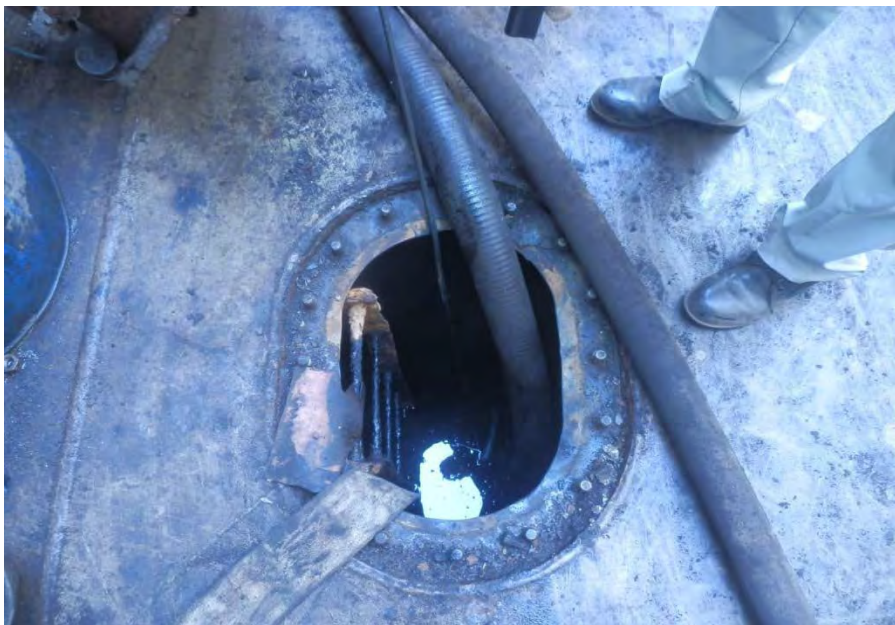




No : 19  
Date : 2016.5.26  
Title :  
Report :  
  
Dirty place by oil  
Oil leaked from pipes  
are polluted the space  
  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



No : 20  
Date : 2016.5.26  
Title :  
Report :  
  
Drum for collection of  
oils from pipeline  
  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



No : 21  
Date : 2016.5.26  
Title :  
Report :  
  
In the ballast water tank  
oil are found on the surface  
about 1~3mm thick  
  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Appendix 2 Topographic Map and Soil Boring Data





**REPORT ON  
GEOTECHNICAL INVESTIGATION WORK FOR PREPARATORY SURVEY ON THE SHIP  
RECYCLING FACILITIES IMPROVING PROJECT AT ALANG/SOSIYA.**

**LOCATION : AT ALANG, SOSIYA, GUJARAT.**

**FORWARDED TO:**

**JAPAN MARINE SCIENCE INC.**

**BY**

**ANANDJIWALA TECHNICAL CONSULTANCY  
AHMEDABAD  
(AUGUST 2016)**

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**562/ATEC-06/16-17**

**GENERAL :**

**M/S.Japan Marine Science Inc** proposed geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

The Geotechnical Investigation work was entrusted to **Anandjiwala Technical Consultancy, Ahmedabad** wide your agreement dated:24/05/2016.

**LOCATION :**

At Alang, Sosiya, Gujarat.

**OBJECT OF INVESTIGATION :**

The object of investigation is to determine the sub surface conditions at the site and to provide information that would assist the Structural Engineer in the design of foundation. The study includes identification of suitable foundations system and assessment of safe bearing capacity of the sub strata in according with standard engineering practice and I. S. Codes.

**SCOPE OF WORK :**

The scope of work at the project site comprised of the following :

- # Mobilizing required no. of boring/ drilling rigs with all necessary equipments and personnel.
- # Making 70 boreholes with rotary drilling through all types of soil and rock.
- # Conducting SPT at regular depth intervals along with standard field & laboratory test.
- # Collecting disturbed and undisturbed soil samples along with standard field & laboratory test.
- # Submitting report with field and laboratory test results and recommendations for foundations.

**GENERAL GEOLOGY OF AREA :  
PROJECT SITE DESCRIPTION :**

The Alang - Sosiya Ship Breaking Yard (ASSBY) is the largest Ship-breaking Yard in Asia, which have a capacity to recycle about 400 ships per annum and can generate about 40 lacs light displacement tonnage per annum. Alang - Sosiya Ship Breaking Yard is at a distance of about 50 km from Bhavnagar city. Alang is a census town in Bhavnagar district in the Indian state of Gujarat. In the past three decades, its beaches have become a major worldwide centre for ship breaking. The shipyards at Alang recycle approximately half of all ships salvaged around the world. It is considered the world's largest graveyard of ships. The yards are located on the Gulf of Khambat, 50 kilometres southeast of Bhavnagar. Japan and the Gujarat government have joined hands to upgrade the existing Alang shipyard. The two parties have signed a Memorandum of Understanding, which focuses on technology transfer and financial assistance from Japan to assist in the upgrading of operations at Alang to meet international standards. This is a part of the Delhi Mumbai Industrial Corridor, a larger partnership between the Japanese and Gujarat government. Under this plan, Japan will address the environmental implications of ship breaking in Alang, and will develop a marketing strategy. The project is to be carried out as a public-private partnership. The project's aim is to make this shipyard the largest International Maritime Organisation-compliant ship recycling yard in the world, Geological Map is attached.

**CLIMATE :**

Entire Bhavnagar district remains dry and hot throughout the year with four main seasons in other parts of the state. The district records 44°C and 9°C average high and low temperature during the year in summer and winter respectively. The monsoon with annual average rainfall of 625 mm is highly unpredictable leading to recurring droughts and floods in parts of the district. Usually, 625 mm average rain fall occurs in 26 to 40 days period.

**GEOGRAPHY :**

Geographical Location :  
Latitude:21.377035° East Longitude:72.166482° East  
(South Point)  
Latitude:21.441728° North Longitude:72.224877° North  
(North Point)

**SEISMICITY :**

The proposed project site is situated in the moderate damage risk zone MSK III as per the Earthquake Hazard Map of India.

**FIELD INVESTIGATION :**

**FIELD BORING & SAMPLING :** 70 Nos. of 150 mm. dia bores were drilled down up to the depth of 10.00 mt. at proposed site of construction by our skilled and experienced site personnel by using rotary drilling in May - June 2016.

**TEST PROCEDURES FOR FIELD TESTS :**

**STANDARD PENETRATION TEST :** The standard penetration tests were carried out by split spoon sampler conforming to IS 2131-1981. The split spoon sampler assembly is divided in three parts. One is cutting shoe of 38 mm inside dia and 51 mm out side diameter with 75 mm length. The second is split body of same diameter and 508 mm in length. The third is driving head with ball of same dia meters and 180 mm in length. The drive weight assembly consist of 63.5 kg. weight hammer and 750 mm free fall guide rod.

Before conducting the Standard Penetration Test we had cleaned the bore by shell then lowered the S.P.T. sampler with 'A' rod and conducted the Standard Penetration Test in accordance with IS 2131-1981.

**UNDISTURBED SAMPLE :**

The undisturbed soil samples were collected in thin walled sampling tubes. The thin wall sampling tubes conforming to IS 2132-1981 consist of cutting shoe sampling tube and driving head with ball.

The tests were conducted in accordance with IS 2132-1981.

**DISTURBED SAMPLES :**

Disturbed samples were collected during boring and from the split spoon sampler.

The samples recovered were labeled and sent to Laboratory for testing.

The borehole was terminated when adequate depth of drilling was completed in consultation with the Site-in-charge as per technical specification.

**LABORATORY TESTING :**

The Laboratory testings were carried out on both disturbed and undisturbed samples. The following tests were carried out on disturbed / undisturbed samples.

- (1) Mechanical Analysis
- (2) Atterberg Limit
- (3) Specific Gravity

**UNDISTURBED SAMPLE :**

- (1) Grain Size Analysis
- (2) Atterberg Limit
- (3) Specific Gravity
- (4) Field Density & Moisture Content
- (5) Consolidation Test
- (6) Unconfined Compressive Strength Test

- (1) The Grain Size Analysis Tests should be carried out in accordance with IS 2720(Part IV)-1992.
- (2) The Atterberg limit test apparatus are (1) Casagrand and (2) Cone Penetrometer in accordance with IS 9259-1979 and 11196-1985 respectively. We will carry out the Test by using both equipments with respect to the soil behaviour and as per the IS- 2720 ( Part-V)-1991.
- (3) Specific Gravity : The specific gravity of the soil samples should be carried out in accordance with IS-2720 (Part- 3/Sec-1)-1980 for fine grain soil and IS 2720 (Part-3/ Sec- 2)-1980 for medium and coarse grain soil.
- (4) Field density and moisture content should be carried out in accordance with IS 2720 (Part-2)-1973.
- (5) Consolidation Test: The Consolidation tests should be carried out in accordance with IS- 2720 (Part-15)-1986.
- (6) Unconfined Compressive Strength Test : The Unconfined Compressive Strength Test should be carried out in accordance with IS- 2720 (Part-10)-1986.



**SUB SOIL PROFILE :** The bore log data reveals the soil formation as under.

**Location :** At Alang, Sosiya, Gujarat.

**Plot No.: 84-F**

The first layer from 0.00 mt.to 4.20 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 4.20 mt.to 5.90 mt.consists of brownish medium to fine grained silty clay of medium plasticity.

The layer from 5.90 mt.to 8.20 mt.consists of light brownish medium to fine grained silty clay of high plasticity with little kankkar.

The layer from 8.20 mt.to 10.0 mt.consists of dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.80 mt. in the borehole during the boring in June 2016.

**Plot No.: 72**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.10 mt. in the borehole during the boring in June 2016.

**Plot No.: 82**

The first layer from 0.00 mt.to 1.50 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

The layer from 1.50 mt.to 7.30 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 7.30 mt.to 8.10 mt.consists of light brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

The layer from 8.10 mt.to 9.00 mt.consists of brownish medium to fine grained silty clay of medium plasticity.

The layer from 9.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 77**

The first layer from 0.00 mt.to 6.30 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 6.30 mt.to 10.00 mt.consists of light brownish medium to fine grained silty clay of medium plasticity.

**WATER TABLE :**

The water table was encountered at 3.40 mt. in the borehole during the boring in June 2016.

**Plot No.: 73**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.80 mt. in the borehole during the boring in June 2016.

**Plot No.: 68**

The first layer from 0.00 mt.to 3.40 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 3.40 mt.to 5.30 mt.consists of brownish medium to fine grained silty clay of low plasticity mixed with little kankkars.

The layer from 5.30 mt.to 7.10 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 7.10 mt.to 10.00 mt.consists of dark brownish medium to fine grained silty clay of high plasticity.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 66**

The first layer from 0.00 mt.to 5.40 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 5.40 mt.to 9.10 mt.consists of dark brownish gravels mixed with medium to fine grained non plastic silty sand.

The layer from 9.10 mt.to 10.00 mt.consists of light brownish medium to fine grained silty clay of high plasticity with little kankkar.

The layer from 6.60 mt.to 10.50 mt.consists of fine grained dark gray black hard basalt.

**WATER TABLE :**

The water table was encountered at 2.50 mt. in the borehole during the boring in June 2016.

**Plot No.: 64**

The first layer from 0.00 mt.to 1.60 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

The layer from 1.60 mt.to 5.30 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 5.30 mt.to 8.20 mt.consists of dark brownish medium to fine grained silty clay of medium plasticity.

The layer from 8.20 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 2.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 62**

The first layer from 0.00 mt.to 8.20 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 8.20 mt. to 10.00 mt.consists of brownish medium to fine grained silty clay of high plasticity.

**WATER TABLE :**

The water table was encountered at 3.10 mt. in the borehole during the boring in June 2016.

**Plot No.: 60**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.60 mt. in the borehole during the boring in June 2016.

**Plot No.: 57**

The first layer from 0.00 mt.to 8.40 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 8.40 mt. to 10.00 mt.consists of brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 60**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.65 mt. in the borehole during the boring in June 2016.

**Plot No.: 23**

The first layer from 0.00 mt.to 8.20 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 8.20 mt. to 9.30 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

The layer from 9.30 mt. to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.20 mt. in the borehole during the boring in June 2016.

**Plot No.: 20**

The first layer from 0.00 mt.to 8.10 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 8.10 mt.to 9.20 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars..

The layer from 9.20 mt.to 10.00 mt.consists of brownish medium to fine grained silty clay of medium plasticity.

**WATER TABLE :**

The water table was encountered at 2.90 mt. in the borehole during the boring in June 2016.

**Plot No.: 18**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.50 mt. in the borehole during the boring in June 2016.

**Plot No.: 16**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 14**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.40 mt. in the borehole during the boring in June 2016.

**Plot No.: 12**

The first layer from 0.00 mt.to 5.50 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 5.50 mt.to 7.40 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

The layer from 7.40 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.20 mt. in the borehole during the boring in June 2016.

**Plot No.: 10**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 9**

The first layer from 0.00 mt.to 7.10 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 7.10 mt.to 8.50 mt.consists of brownish medium to fine grained silty clay of medium plasticity.

The layer from 8.50 mt.to 10.00 mt.consists of brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.

**WATER TABLE :**

The water table was encountered at 3.60 mt. in the borehole during the boring in June 2016.

**Plot No.: 8**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.90 mt. in the borehole during the boring in June 2016.

**Plot No.: 7**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.30 mt. in the borehole during the boring in June 2016.

**Plot No.: 5**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.20 mt. in the borehole during the boring in June 2016.



**Plot No.: 4**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.60 mt. in the borehole during the boring in June 2016.

**Plot No.: 3**

The first layer from 0.00 mt.to 8.50 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 8.50 mt.to 10.00 mt.consists of dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.50 mt. in the borehole during the boring in June 2016.

**Plot No.: 25**

The first layer from 0.00 mt.to 10.00 mt.consists of yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.40 mt. in the borehole during the boring in June 2016.

**Plot No.: 27**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 30**

The first layer from 0.00 mt.to 7.40 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 7.40 mt.to 10.00 mt.consists of dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 33**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.30 mt. in the borehole during the boring in June 2016.

**Plot No.: 36**

The first layer from 0.00 mt.to 8.10 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 8.10 mt.to 10.00 mt.consists of dark brownish medium to fine grained silty clay of high plasticity mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.50 mt. in the borehole during the boring in June 2016.

**Plot No.: 39**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 42**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.40 mt. in the borehole during the boring in June 2016.

**Plot No.: 44**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 3.10 mt. in the borehole during the boring in June 2016.

**Plot No.: 46**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.20 mt. in the borehole during the boring in June 2016.

**Plot No.: 47**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :**

The water table was encountered at 2.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 51**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt. in the borehole during the boring in June 2016.

**Plot No.: 54**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.50 mt. in the borehole during the boring in June 2016.

**Plot No.: 87**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.30 mt. in the borehole during the boring in June 2016.

**Plot No.: 88**

The first layer from 0.00 mt.to 6.30 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

The layer from 6.30 mt.to 8.40 mt.consists of brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.

The layer from 8.40 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand.

**WATER TABLE :**

The water table was encountered at 2.40 mt. in the borehole during the boring in June 2016.

**Plot No.: 91**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.80 mt. in the borehole during the boring in June 2016.

**Plot No.: 93**

The first layer from 0.00 mt.to 10.00 mt.consists of yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.10 mt. in the borehole during the boring in June 2016.

**Plot No.: 96**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.70 mt.in the borehole during the boring in June 2016.

**Plot No.: 98**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt.in the borehole during the boring in June 2016.

**Plot No.: 100**

The first layer from 0.00 mt.to 1.70 mt.consists of dark brownish gravels mixed with medium to fine grained non plastic silty sand.

The layer from 1.70 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 2.50 mt. in the borehole during the boring in June 2016.

**Plot No.: V-2**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :** The water table was encountered at 2.80 mt.in the borehole during the boring in June 2016.

**Plot No.: V-3**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :** The water table was encountered at 3.20 mt. in the borehole during the boring in June 2016.

**Plot No.: V-4**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.50 mt.in the borehole during the boring in June 2016.

**Plot No.: V-5**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with little kankkars.

**WATER TABLE :** The water table was encountered at 3.30 mt.in the borehole during the boring in June 2016.

**Plot No.: 106**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.70 mt. in the borehole during the boring in June 2016.

**Plot No.: 108**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.20 mt.in the borehole during the boring in June 2016.

**Plot No.: 113**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.30 mt.in the borehole during the boring in June 2016.

**Plot No.: 117**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.10 mt.in the borehole during the boring in June 2016.

**Plot No.: 120**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.60 mt.in the borehole during the boring in June 2016.

**Plot No.: 122**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.90 mt.in the borehole during the boring in June 2016.

**Plot No.: 125**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.



**WATER TABLE :** The water table was encountered at 2.50 mt.in the borehole during the boring in June 2016.

**Plot No.: 130**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.70 mt.in the borehole during the boring in June 2016.

**Plot No.: 135**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.00 mt.in the borehole during the boring in June 2016.

**Plot No.: 140**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.30 mt.in the borehole during the boring in June 2016.

**Plot No.: 141-M**

The first layer from 0.00 mt.to 1.30 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 1.30 mt.to 2.80 mt.consists of dark brownish gravels mixed with medium to fine grained non plastic silty sand.

The layer from 2.80 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.70 mt.in the borehole during the boring in June 2016.

**Plot No.: 144**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.40 mt.in the borehole during the boring in June 2016.

**Plot No.: 148**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.90 mt.in the borehole during the boring in June 2016.

**Plot No.: 151**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.60 mt.in the borehole during the boring in June 2016.

**Plot No.: 153-M**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.20 mt.in the borehole during the boring in June 2016.

**Plot No.: 155-156**

The first layer from 0.00 mt.to 7.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.80 mt.in the borehole during the boring in May 2016.

**Plot No.: 160**

The first layer from 0.00 mt.to 10.00 mt.consists of dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 3.40 mt.in the borehole during the boring in June 2016.

**Plot No.: 163**

The first layer from 0.00 mt.to 7.10 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

The layer from 7.10 mt.to 10.00 mt.consists of brownish medium to fine grained silty clay of high plasticity mixed with little kankkars.

**WATER TABLE :** The water table was encountered at 3.10 mt.in the borehole during the boring in June 2016.

**Plot No.: V-6**

The first layer from 0.00 mt.to 10.00 mt.consists of light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :** The water table was encountered at 2.60 mt.in the borehole during the boring in June 2016.

**Plot No.: V-8**

The first layer from 0.00 mt.to 10.00 mt.consists of brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.50 mt.in the borehole during the boring in May 2016.

**Plot No.: V-9**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.30 mt.in the borehole during the boring in June 2016.

**Plot No.: V-10**

The first layer from 0.00 mt.to 10.00 mt.consists of light brownish medium to coarse grained non plastic silty sand mixed with kankkars.

**WATER TABLE :**

The water table was encountered at 3.00 mt.in the borehole during the boring in June 2016.

**NOTATIONS**

BH	Bore Hole
N	SPT Value
DS	Disturbed Sample
UDS	Undisturbed sample
DU	Direct Shear Undrained Test
TU	Triaxial Shear Undrained Test
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
SC	Clayey Sand
SM	Silty sand
SW	Well graded sand
SP	Poorly graded sand
CH	Clay of high plasticity
CI	Clay of Intermediate plasticity
CL	Clay of Low plasticity
MH	Silt of high plasticity
M	Silt of Intermediate plasticity
ML	Silt of low plasticity
GC	Clayey Gravels
$\phi$	Angle of friction
qd	Net ultimate bearing capacity
C <sub>c</sub>	Compression Index
C	Cohesion
$\gamma_b$	Bulk density
MC	Moisture Content
B	Width of Footing in mt.
N <sub>c</sub> , N <sub>q</sub> & N <sub>γ</sub>	Bearing Capacity Factors
S <sub>c</sub> , S <sub>q</sub> & S <sub>γ</sub>	Shape Factors.
d <sub>c</sub> , d <sub>q</sub> & d <sub>γ</sub>	Depth Factors.
i <sub>c</sub> , i <sub>q</sub> & i <sub>γ</sub>	Inclination Factors.
w	Correction factor for water table.

### GENERAL REFERENCES

Indian Standards	IS 2720 Part -II, Part -III, Part -IV, Part -V, Part -XIII Part -XXXI, Part -XXVII, Part -XXXI, Part -XXV IS - 1948, IS - 6403, IS - 1904, IS:6409-1981 IS : 6403-1971 IS 456-2000 IS 2720(Part IV & V)-1985. IS 9259-1979 & 11196-1985 IS-11229-1985.
Alam Singh	Modern Geotechnical Engineering.
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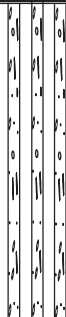



**ANNEXURE- 1**  
**LIST OF PLOT WITH BASIC DETAILS**

List of Plot with basic details						
Sr.No.	Plot No.	Easting	Northing	RL	Water Table BGL (mt.)	Water table from RL (mt.)
1	84-F	206194.8863	2366525.8418	9.712	2.80	6.91
2	72	206342.8863	2366786.8418	11.389	3.10	8.29
3	82	206420.8863	2366912.8418	10.914	3.00	7.91
4	77	206498.8863	2367043.8418	10.136	3.40	6.74
5	73	206494.0764	2367195.0512	10.666	2.80	7.87
6	68	206496.3923	2367361.2547	11.216	3.00	8.22
7	66	206596.9155	2367454.5011	11.272	2.50	8.77
8	64	206654.8863	2367529.8418	10.205	2.70	7.51
9	62	206715.8863	2367631.8418	11.171	3.10	8.07
10	60	206773.8863	2367720.8418	10.420	2.60	7.82
11	57	206867.8863	2367814.8418	10.297	3.00	7.30
12	55	206906.8863	2367926.8418	11.586	2.65	8.94
13	23	206983.8863	2368019.8418	11.538	3.20	8.34
14	20	207074.8863	2368154.8418	12.181	2.90	9.28
15	18	207158.8863	2368250.8418	12.730	2.50	10.23
16	16	207274.8863	2368347.8418	11.910	2.70	9.21
17	14	207363.8863	2368461.8418	11.757	3.40	8.36
18	12	207498.8863	2368575.8418	12.090	3.20	8.89
19	10	207625.8863	2368678.8418	13.592	3.00	10.59
20	9	207689.8863	2368710.8418	12.085	3.60	8.49
21	8	207795.8863	2368776.8418	11.698	2.90	8.80
22	7	207783.3863	2368861.7793	14.529	3.30	11.23
23	5	207937.8863	2368966.8418	13.993	3.20	10.79
24	4	208019.8863	2369050.8418	15.266	2.60	12.67
25	3	208071.8863	2369082.8418	14.496	3.50	11.00
26	25	208278.8863	2369221.8418	12.987	2.40	10.59
27	27	208364.8863	2369280.8418	12.099	3.00	9.10
28	30	208484.8863	2369369.8418	11.532	2.70	8.83
29	33	208614.3863	2369463.7793	11.214	3.30	7.91
30	36	208741.8863	2369535.8418	10.407	3.50	6.91
31	39	208846.8863	2369640.8418	10.678	3.70	6.98
32	42	208985.0000	2369734.5610	11.061	3.40	7.66
33	44	209061.4537	2369801.8280	10.229	3.10	7.13
34	46	209133.0052	2369876.1763	10.888	3.20	7.69
35	47	209170.6713	2369913.4936	10.792	2.70	8.09
36	51	209358.3861	2370083.2469	10.607	3.00	7.61
37	54	209494.8892	2370165.8259	10.671	2.50	8.17
38	87	209582.7800	2370235.7297	9.385	3.30	6.09
39	88	209829.0985	2370566.3302	11.600	2.40	9.20
40	91	209902.2029	2370637.4151	12.142	2.80	9.34
41	93	209947.0579	2370677.7934	12.438	3.10	9.34
42	96	210027.3650	2370756.4980	13.596	2.70	10.90
43	98	210052.9704	2370786.6533	12.315	3.00	9.32










List of Plot with basic details						
Sr.No.	Plot No.	Easting	Northing	RL	Water Table BGL (mt.)	Water table from RL (mt.)
44	100	210091.0882	2370832.5004	14.556	2.50	12.06
45	V-2	210305.0171	2371059.8890	13.082	2.80	10.28
46	V-3	210389.0571	2371144.5022	11.421	3.20	8.22
47	V-4	210487.6449	2371223.3353	13.723	3.50	10.22
48	V-5	210565.7905	2371278.4760	13.185	3.30	9.89
49	106	210665.0000	2371350.3573	12.658	3.70	8.96
50	108	210714.4926	2371389.7650	12.931	3.20	9.73
51	113	210819.8914	2371492.2017	13.034	3.30	9.73
52	117	210927.3702	2371597.3173	12.172	3.10	9.07
53	120	210949.4281	2371627.4477	12.757	2.60	10.16
54	122	210993.3878	2371687.9678	12.899	2.90	10.00
55	125	211062.3729	2371784.2838	12.990	2.50	10.49
56	130	211138.0416	2371889.6252	12.801	2.70	10.10
57	135	211224.0217	2372025.1818	11.852	3.00	8.85
58	140	211282.1086	2372110.9643	11.773	3.30	8.47
59	141-M	211330.5729	2372191.9306	11.466	2.70	8.77
60	144	211378.7470	2372283.9996	11.258	2.40	8.86
61	148	211407.4545	2372345.9664	11.592	2.90	8.69
62	151	211478.3986	2372459.1220	10.953	2.60	8.35
63	153-M	211501.3786	2372511.6129	11.994	3.20	8.79
64	155-156	211542.6064	2372567.4047	11.512	2.80	8.71
65	160	211620.6387	2372667.0152	10.907	3.40	7.51
66	163	211696.8827	2372774.0799	8.804	3.10	5.70
67	V-6	212071.2235	2373207.7021	11.656	2.60	9.06
68	V-8	212223.0420	2373385.7334	12.722	3.50	9.22
69	V-9	212307.1279	2373486.3079	13.679	3.30	10.38
70	V-10	212358.8814	2373584.0243	14.101	3.00	11.10

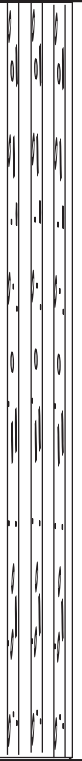
**ANNEXURE- 2**  
**BORE LOGS**


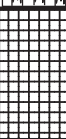


RECORD OF BORING - 1																		
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																		
Plot No.: 84-F <span style="float: right;">Page : 1/1</span>																		
METHOD OF DRILLING : Rotary				LOCATION : At Plot No.:84-F, Alang/Sosiya, Gujarat.				DEPTH OF BORE HOLE : 10.00 mt.										
DRILLER : --				RL : --9.712 mt.				START DATE : 04/06/2016										
DIA OF BOREHOLE : 150 mm / Nx m				END DATE : 04/06/2016														
DEPTH OF GWT : @ 2.80 mt. BGL																		
CO ORDINATES : Easting : -- 206194.8863																		
Northing : --2366525.8418																		
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK			
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)	
4.20	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		4.20	1.00	SPT	1	14,16,23	39						-	-	
	2.00					SPT	2	13,19,22	41							-	-	
	3.00					SPT	3	12,23,24	47								-	-
	4.00					SPT	4	24,48,62	>100								-	-
5.90	5	brownish medium to fine grained silty clay of medium plasticity.	Cl		1.70	5.00	SPT	5	23,33,38	71						-	-	
	6.00					SPT	6	22,31,36	67							-	-	
8.20	7	light brownish medium to fine grained silty clay of high plasticity with little kankkar.	CH		2.30	7.00	SPT	7	16,21,31	52						-	-	
	8.00					SPT	8	13,19,25	44							-	-	
10.00	9	dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.	Cl		1.80	9.00	SPT	9	15,22,24	46						-	-	
	10.00					SPT	10	21,45,63	>100							-	-	
	11	Bore terminated @ 10.00 mt.																
	12																	
	13																	
	14																	
	15																	

RECORD OF BORING - 2																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary																					
DRILLER : --																					
DIA OF BOREHOLE : 150 mm / Nx m																					
DEPTH OF GWT : @ 3.10 mt. BGL																					
CO ORDINATES : Easting : --206342.8863																					
Northing : --2366786.8418																					
Plot No.: 72																					
Page : 1/1																					
LOCATION : At Plot No.:72, Alang/Sosiya, Gujarat.																					
DEPTH OF BORE HOLE : 10.00 mt.																					
RL : --11.389 mt.																					
START DATE : 04/06/2016																					
END DATE : 04/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	8,12,15	27											
	2					2.00	SPT	2	23,25,24	49											
	3					3.00	SPT	3	60,40,51	91											
	4					4.00	SPT	4	30,35,42	77											
	5					5.00	SPT	5	40,43,50	93											
	6					6.00	SPT	6	19,31,34	65											
	7					7.00	SPT	7	21,24,22	46											
	8					8.00	SPT	8	20,25,27	52											
	9					9.00	SPT	9	21,28,35	63											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	25,46,52	98							
	11																				
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 3																		
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																		
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL COORDINATES : Easting : --206420.8863 Northing : --2366912.8418										Plot No.: 82		Page : 1/1						
LOCATION : At Plot No.:82, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : --10.914 mt. START DATE : 07/06/2016 END DATE : 07/06/2016																		
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK			
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)	
1.50	1	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		1.50	1.00	SPT	1	6,9,12	21						-	-	
	2	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		1.70	2.00	SPT	2	10,12,15	27						-	-	
	3				3.00	SPT	3	18,30,38	68								-	-
	4				4.00	SPT	4	30,50,45	95								-	-
	5				5.00	SPT	5	21,23,24	47								-	-
	6				6.00	SPT	6	26,31,33	64								-	-
7.30	7	light brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		0.80	7.00	SPT	7	35,39,41	80						-	-	
8.10	8					8.00	SPT	8	28,47,58	>100							-	-
9.00	9	brownish medium to fine grained silty clay of medium plasticity.	Cl		0.90	9.00	SPT	9	31,45,62	>100					-	-		
10.00	10	dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		1.00	10.00	SPT	10	26,35,47	82					-	-		
	11	Bore terminated @ 10.00 mt.																
	12																	
	13																	
	14																	
	15																	





RECORD OF BORING - 4																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.40 mt. BGL CO ORDINATES : Easting : --206498.8863 Northing : --2367043.8418										Plot No.: 77		Page : 1/1									
LOCATION : At Plot No.:77, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : --10.136 mt. START DATE : 07/06/2016 END DATE : 08/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)				
6.30	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		6.30	1.00	SPT	1	4,6,13	19											
	2					2.00	SPT	2	8,13,16	29											
	3					3.00	SPT	3	9,14,19	33											
	4					4.00	SPT	4	14,20,25	45											
	5					5.00	SPT	5	15,12,22	34											
	6					6.00	SPT	6	15,19,28	47											
10.00	7	light brownish medium to fine grained silty clay of medium plasticity.	Cl		3.70	7.00	SPT	7	30,35,50	85											
	8					8.00	SPT	8	25,33,51	84											
	9					9.00	SPT	9	27,36,48	84											
	10					10.00	SPT	10	25,38,51	89											
	11	Bore terminated @ 10.00 mt.																			
	12																				
	13																				
	14																				
	15																				



RECORD OF BORING - 5																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.80 mt. BGL CO ORDINATES : Easting : --206494.0764 Northing : --2367195.0512										Plot No.: 73		Page : 1/1									
LOCATION : At Plot No.:73, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : --10.666 mt. START DATE : 07/06/2016 END DATE : 07/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	12,15,18	33											
	2					2.00	SPT	2	20,24,30	54											
	3					3.00	SPT	3	28,35,40	75											
	4					4.00	SPT	4	12,18,20	38											
	5					5.00	SPT	5	10,21,27	48											
	6					6.00	SPT	6	12,35,45	80											
	7					7.00	SPT	7	12,16,18	34											
	8					8.00	SPT	8	18,35,40	75											
	9					9.00	SPT	9	21,46,59	>100											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	19,43,58	>100							
	11																				
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 6																	
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																	
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : -- 206496.3923 Northing : -- 2367361.2547										Plot No.: 68			Page : 1/1				
LOCATION : At Plot No.:68, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : --11.216 mt. START DATE : 08/06/2016 END DATE : 08/06/2016										OBSERVED SPT VALUES		N value/ 30cms.			ROCK		
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.			ROCK			
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)
3.40	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		3.40	1.00	SPT	1	10,13,18	31							
	2.00					SPT	2	18,28,32	60								
	3.00					SPT	3	12,15,22	37								
5.30	4	brownish medium to fine grained silty clay of low plasticity mixed with little kankkars.	CL		1.90	4.00	SPT	4	18,25,30	55							
	5.00					SPT	5	22,26,22	48								
7.10	6	dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		1.80	6.00	SPT	6	28,18,29	47							
	7.00					SPT	7	31,49,61	>100								
10.00	8	dark brownish medium to fine grained silty clay of high plasticity.	CH		2.90	8.00	SPT	8	29,35,49	84							
	9.00					SPT	9	33,41,44	85								
	10.00					SPT	10	35,37,51	88								
	11	Bore terminated @ 10.00 mt.															
	12																
	13																
	14																
	15																





RECORD OF BORING - 7																		
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																		
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.50 mt. BGL CO ORDINATES : Easting : -- 206596.9155 Northing : --2367454.5011										Plot No.: 66			Page : 1/1					
LOCATION : At Plot No.:66, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.272 mt. START DATE : 09/06/2016 END DATE : 09/06/2016										OBSERVED SPT VALUES		N value/ 30cms.			ROCK			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.			ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)	
5.40	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		5.40	1.00	SPT	1	8,10,12	22								
	2					2.00	SPT	2	20,35,47	82								
	3					3.00	SPT	3	22,37,48	85								
	4					4.00	SPT	4	14,19,28	47								
	5					5.00	SPT	5	18,28,44	72								
9.10	6	dark brownish gravels mixed with medium to fine grained non plastic silty sand.	GM		3.70	6.00	SPT	6	18,27,38	65								
	7					7.00	SPT	7	19,28,39	67								
	8					8.00	SPT	8	21,30,42	72								
	9					9.00	SPT	9	15,21,28	49								
10.00	10	light brownish medium to fine grained silty clay of high plasticity with little kankkar.	CH		0.90	10.00	SPT	10	17,30,41	71								
	11	Bore terminated @ 10.00 mt.																
	12																	
	13																	
	14																	
	15																	




RECORD OF BORING - 8																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.70 mt.BGL CO ORDINATES : Easting : --206654.8863 Northing : -- 2367529.8418										Plot No.: 64		Page : 1/1									
LOCATION : At Plot No.:64, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.205 mt. START DATE : 08/06/2016 END DATE : 08/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)					
1.60	1	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		1.60	1.00	SPT	1	5,8,13	21						-	-				
5.30	2	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		3.70	2.00	SPT	2	8,12,16	30							-	-			
	3.00					SPT	3	15,18,27	45										-	-	
	4.00					SPT	4	17,22,30	52											-	-
	5.00					SPT	5	18,30,32	62											-	-
	6.00					SPT	6	22,32,34	66											-	-
8.20	6	dark brownish medium to fine grained silty clay of medium plasticity.	CI		2.90	7.00	SPT	7	19,28,21	49							-	-			
	8.00					SPT	8	26,36,29	65										-	-	
	8.20					SPT	8	26,36,29	65										-	-	
10.00	9	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		1.80	9.00	SPT	9	24,46,48	94							-	-			
	10.00					SPT	10	32,52,62	>100										-	-	
	11	Bore terminated @ 10.00 mt.																			
	12																				
	13																				
	14																				
	15																				




RECORD OF BORING - 9																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 3.10 mt. BGL																				
CO ORDINATES : Easting : --206715.8863																				
Northing : -- 2367631.8418																				
Plot No.: 62																				
Page : 1/1																				
LOCATION : At Plot No.:62, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 11.171 mt.																				
START DATE : 09/06/2016																				
END DATE : 09/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		8.20	1.00	SPT	1	7,16,22	38										
	2					2.00	SPT	2	6,14,18	32										
	3					3.00	SPT	3	12,18,22	40										
	4					4.00	SPT	4	9,16,28	44										
	5					5.00	SPT	5	10,22,37	59										
	6					6.00	SPT	6	12,23,39	62										
	7					7.00	SPT	7	16,27,38	65										
8.20	8					8.00	SPT	8	13,28,32	60										
	9	brownish medium to fine grained silty clay of high plasticity.	CH		1.80	9.00	SPT	9	5,10,22	32										
10.00	10					10.00	SPT	10	18,25,30	55										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 10																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.60 mt. BGL CO ORDINATES : Easting : -- 206773.8863 Northing : -- 2367720.8418										Plot No.: 60		Page : 1/1										
LOCATION : At Plot No.:60, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.420 mt. START DATE : 09/06/2016 END DATE : 09/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)					
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	10,19,21	40												
	2					2.00	SPT	2	8,12,18	30												
	3					3.00	SPT	3	11,17,22	39												
	4					4.00	SPT	4	13,19,26	45												
	5					5.00	SPT	5	12,21,52	73												
	6					6.00	SPT	6	16,26,33	59												
	7					7.00	SPT	7	18,26,38	64												
	8					8.00	SPT	8	12,18,30	48												
	9					9.00	SPT	9	16,21,32	53												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	20,27,35	62								
	11																					
	12																					
	13																					
	14																					
	15																					

RECORD OF BORING - 11																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
Plot No.: 57 <span style="float: right;">Page : 1/1</span>																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : -- 206867.8863 Northing : -- 2367814.8418						LOCATION : At Plot No.:57, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.297 mt. START DATE : 09/06/2016 END DATE : 09/06/2016														
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		8.40	1.00	SPT	1	12,18,31	49										
	2					2.00	SPT	2	15,21,27	48										
	3					3.00	SPT	3	17,25,31	56										
	4					4.00	SPT	4	20,26,32	58										
	5					5.00	SPT	5	23,28,31	59										
	6					6.00	SPT	6	8,16,26	42										
	7					7.00	SPT	7	10,22,33	55										
8.40	8					8.00	SPT	8	9,17,36	53										
	9	brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.	Cl		1.60	9.00	SPT	9	19,25,38	63										
10.00	10					10.00	SPT	10	22,23,48	71										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

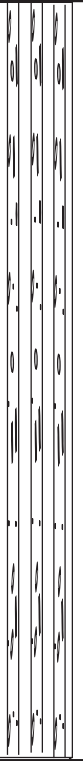
RECORD OF BORING - 12																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.65 mt. BGL CO ORDINATES : Easting : -- 206906.8863 Northing : -- 2367926.8418										Plot No.: 55		Page : 1/1							
LOCATION : At Plot No.:55, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.586 mt. START DATE : 10/06/2016 END DATE : 10/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)			
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,14,16	30						-	-		
	2					2.00	SPT	2	11,16,23	39								-	-
	3					3.00	SPT	3	13,19,25	44								-	-
	4					4.00	SPT	4	15,19,26	45								-	-
	5					5.00	SPT	5	21,21,27	48								-	-
	6					6.00	SPT	6	30,32,38	70								-	-
	7					7.00	SPT	7	35,40,35	75								-	-
	8					8.00	SPT	8	39,41,42	83								-	-
	9					9.00	SPT	9	41,46,56	>100								-	-
10.00	10					10.00	SPT	10	40,52,64	>100								-	-
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		


RECORD OF BORING - 13																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : -- 206983.8863 Northing : -- 2368019.8418										Plot No.: 23		Page : 1/1									
LOCATION : At Plot No.:23, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.538 mt. START DATE : 10/06/2016 END DATE : 10/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		8.20	1.00	SPT	1	5,8,12	20											
	2					2.00	SPT	2	3,3,5	8											
	3					3.00	SPT	3	8,9,13	22											
	4					4.00	SPT	4	10,12,18	30											
	5					5.00	SPT	5	15,22,28	50											
	6					6.00	SPT	6	4,5,10	15											
	7					7.00	SPT	7	4,5,6	11											
8.20	8					8.00	SPT	8	22,30,38	68											
	9	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		1.10	9.00	SPT	9	32,41,59	>100											
	10	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		0.70	10.00	SPT	10	38,44,65	>100											
	11	Bore terminated @ 10.00 mt.																			
	12																				
	13																				
	14																				
	15																				




RECORD OF BORING - 14																	
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																	
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.90 mt. BGL CO ORDINATES : Easting : -- 207074.8863 Northing : -- 2368154.8418										Plot No.: 20		Page : 1/1					
LOCATION : At Plot No.:20, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.181 mt. START DATE : 10/06/2016 END DATE : 10/06/2016										OBSERVED SPT VALUES		N value/ 30cms.		ROCK			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.		ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)
8.10	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		8.10	1.00	SPT	1	17,18,18	36					-	-	
	2					2.00	SPT	2	14,19,21	40						-	-
	3					3.00	SPT	3	15,18,20	38						-	-
	4					4.00	SPT	4	16,20,24	44						-	-
	5					5.00	SPT	5	18,19,26	45						-	-
	6					6.00	SPT	6	10,18,30	48						-	-
	7					7.00	SPT	7	12,20,35	55						-	-
	8					8.00	SPT	8	22,38,40	78						-	-
9.20	9	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		1.10	9.00	SPT	9	19,30,36	66				-	-		
10.00	10	brownish medium to fine grained silty clay of medium plasticity.	Cl		0.80	10.00	SPT	10	21,32,39	71				-	-		
	11	Bore terminated @ 10.00 mt.															
	12																
	13																
	14																
	15																




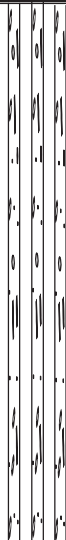


RECORD OF BORING - 15																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.50 mt.BGL CO ORDINATES : Easting : --207158.8863 Northing : -- 2368250.8418										Plot No.: 18		Page : 1/1							
LOCATION : At Plot No.:18, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.730 mt. START DATE : 10/06/2016 END DATE : 10/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,15,39	54						-	-		
	2					2.00	SPT	2	15,30,40	70								-	-
	3					3.00	SPT	3	29,36,48	84								-	-
	4					4.00	SPT	4	21,31,38	69								-	-
	5					5.00	SPT	5	16,20,26	46								-	-
	6					6.00	SPT	6	18,22,26	48								-	-
	7					7.00	SPT	7	35,42,30	72								-	-
	8					8.00	SPT	8	37,46,42	88								-	-
	9					9.00	SPT	9	40,52,58	>100								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	38,56,47	>100					-
	11																		
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 16																							
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																							
METHOD OF DRILLING : Rotary																							
DRILLER : --																							
DIA OF BOREHOLE : 150 mm / Nx m																							
DEPTH OF GWT : @ 2.70 mt. BGL																							
CO ORDINATES : Easting : --207274.8863																							
Northing : -- 2368347.8418																							
Plot No.: 16																							
Page : 1/1																							
LOCATION : At Plot No.:16, Alang/Sosiya, Gujarat.																							
DEPTH OF BORE HOLE : 10.00 mt.																							
RL : -- 11.910 mt.																							
START DATE : 10/06/2016																							
END DATE : 10/06/2016																							
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK							
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)						
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,19,28	47													
	2					2.00	SPT	2	18,25,38	63													
	3					3.00	SPT	3	22,34,38	72													
	4					4.00	SPT	4	19,25,38	63													
	5					5.00	SPT	5	18,22,24	46													
	6					6.00	SPT	6	20,23,21	44													
	7					7.00	SPT	7	22,19,29	48													
	8					8.00	SPT	8	29,28,36	64													
	9					9.00	SPT	9	30,39,49	88													
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	25,29,35	64									
	11																						
	12																						
	13																						
	14																						
	15																						

RECORD OF BORING - 17																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary																					
DRILLER : --																					
DIA OF BOREHOLE : 150 mm / Nx m																					
DEPTH OF GWT : @ 3.40 mt. BGL																					
CO ORDINATES : Easting : -- 207363.8863																					
Northing : -- 2368461.8418																					
Plot No.: 14																					
LOCATION : At Plot No.:14, Alang/Sosiya, Gujarat.																					
DEPTH OF BORE HOLE : 10.00 mt.																					
RL : -- 11.757 mt.																					
START DATE : 11/06/2016																					
END DATE : 11/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,12,20	32											
	2					2.00	SPT	2	7,10,14	24											
	3					3.00	UDS	1	-	-											
	4					4.00	SPT	3	10,21,28	49											
	5					5.00	SPT	4	12,28,35	63											
	6					6.00	SPT	5	11,25,38	63											
	7					7.00	SPT	6	18,28,40	68											
	8					8.00	SPT	7	14,23,36	59											
	9					9.00	SPT	8	5,8,17	25											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	7,14,19	33							
	11																				
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 18																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
Plot No.: 12 <span style="float: right;">Page : 1/1</span>																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : --207498.8863 Northing : --2368575.8418					LOCATION : At Plot No.:12, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.090 mt. START DATE : 11/06/2016 END DATE : 11/06/2016															
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		5.50	1.00	SPT	1	10,15,19	34										
	2					2.00	SPT	2	15,17,20	37										
	3					3.00	SPT	3	19,20,21	41										
	4					4.00	SPT	4	21,18,26	44										
	5					5.00	SPT	5	20,22,26	48										
	6	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankkars.	SC		1.90	6.00	SPT	6	22,25,37	62										
	7					7.00	SPT	7	35,42,30	72										
	8	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		2.60	8.00	SPT	8	26,31,39	70										
	9					9.00	SPT	9	36,56,58	>100										
	10					10.00	SPT	10	35,41,59	>100										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 19																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : -- 207625.8863 Northing : -- 2368678.8418										Plot No.: 10		Page : 1/1							
LOCATION : At Plot No.:10, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.592 mt. START DATE : 11/06/2016 END DATE : 11/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)		
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,6,12	18						-	-		
	2					2.00	SPT	2	6,10,12	22								-	-
	3					3.00	SPT	3	12,18,24	42								-	-
	4					4.00	SPT	4	16,20,23	43								-	-
	5					5.00	SPT	5	19,21,24	45								-	-
	6					6.00	SPT	6	20,23,26	49								-	-
	7					7.00	SPT	7	32,40,42	82								-	-
	8					8.00	SPT	8	36,46,54	>100								-	-
	9					9.00	SPT	9	41,53,65	>100								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	44,58,62	>100					-
	11																		
	12																		
	13																		
	14																		
	15																		


RECORD OF BORING - 20																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.60 mt. BGL CO ORDINATES : Easting : -- 207689.8863 Northing : -- 2368710.8418										Plot No.: 9			Page : 1/1							
LOCATION : At Plot No.:9, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.085 mt. START DATE : 11/06/2016 END DATE : 11/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)			
7.10	1	brownish medium to coarse grained non plastic silty sand mixed with little kankars.	SM		7.10	1.00	SPT	1	9,12,19	31										
	2					2.00	UDS	1	-	-										
	3					3.00	SPT	2	13,16,20	36										
	4					4.00	SPT	3	17,22,28	50										
	5					5.00	SPT	4	15,23,27	50										
	6					6.00	SPT	5	18,20,28	48										
	7					7.00	SPT	6	30,37,45	82										
8.50	8	brownish medium to fine grained silty clay of medium plasticity.	Cl		1.40	8.00	SPT	7	12,21,50	71										
10.00	9	brownish medium to fine grained silty sand mixed clay particles of low plasticity with kankars.	SC		1.50	9.00	SPT	8	15,26,45	71										
	10					10.00	SPT	9	17,28,42	70										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			





RECORD OF BORING - 21																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.90 mt. BGL CO ORDINATES : Easting : -- 207795.8863 Northing : -- 2368776.8418																				
Plot No.: 8																				
LOCATION : At Plot No.:8, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.698 mt. START DATE : 11/06/2016 END DATE : 11/06/2016																				
Page : 1/1																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	4,16,20	36										
	2					2.00	SPT	2	6,17,22	39										
	3					3.00	SPT	3	5,12,28	40										
	4					4.00	SPT	4	10,14,27	41										
	5					5.00	SPT	5	6,18,23	41										
	6					6.00	SPT	6	7,19,26	45										
	7					7.00	SPT	7	9,19,28	47										
	8					8.00	SPT	8	19,28,38	66										
	9					9.00	SPT	9	9,22,35	57										
10.00	10					10.00	SPT	10	12,24,35	59										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 22																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 207783.3863 Northing : -- 2368861.7793										Plot No.: 7		Page : 1/1								
LOCATION : At Plot No.:7, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 14.529 mt. START DATE : 11/06/2016 END DATE : 11/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	9,13,15	28										
	2					2.00	SPT	2	10,12,22	34										
	3					3.00	SPT	3	13,15,25	40										
	4					4.00	SPT	4	16,22,20	42										
	5					5.00	SPT	5	17,25,22	47										
	6					6.00	SPT	6	30,30,35	65										
	7					7.00	SPT	7	30,32,40	72										
	8					8.00	SPT	8	28,36,41	77										
	9					9.00	SPT	9	36,47,54	>100										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	26,42,50	92						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 23																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary																					
DRILLER : --																					
DIA OF BOREHOLE : 150 mm / Nx m																					
DEPTH OF GWT : @ 3.20 mt. BGL																					
CO ORDINATES : Easting : -- 207937.8863																					
Northing : -- 2368966.8418																					
Plot No.: 5																					
LOCATION : At Plot No.:5, Alang/Sosiya, Gujarat.																					
DEPTH OF BORE HOLE : 10.00 mt.																					
RL : -- 13.993 mt.																					
START DATE : 10/06/2016																					
END DATE : 10/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	3,6,10	16											
	2					2.00	SPT	2	4,14,20	34											
	3					3.00	SPT	3	6,14,18	32											
	4					4.00	SPT	4	9,18,22	40											
	5					5.00	SPT	5	10,22,30	52											
	6					6.00	SPT	6	8,20,24	44											
	7					7.00	SPT	7	7,18,22	40											
	8					8.00	SPT	8	8,16,20	36											
	9					9.00	SPT	9	9,20,34	54											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	12,27,29	56							
	11																				
	12																				
	13																				
	14																				
	15																				



RECORD OF BORING - 24																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 2.60 mt. BGL																				
CO ORDINATES : Easting : -- 208019.8863																				
Northing : -- 2369050.8418																				
Plot No.: 4																				
LOCATION : At Plot No.:4, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 15.266 mt.																				
START DATE : 11/06/2016																				
END DATE : 11/06/2016																				
Page : 1/1																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,12,18	30										
	2					2.00	SPT	2	10,18,22	40										
	3					3.00	SPT	3	15,23,23	46										
	4					4.00	SPT	4	24,27,32	59										
	5					5.00	SPT	5	18,23,26	49										
	6					6.00	SPT	6	25,30,45	75										
	7					7.00	SPT	7	27,38,48	86										
	8					8.00	SPT	8	32,40,51	91										
	9					9.00	SPT	9	30,40,60	100										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	35,45,65	>100						
	11																			
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 25																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.50 mt. BGL CO ORDINATES : Easting : -- 208071.8863 Northing : -- 2369082.8418										Plot No.: 3		Page : 1/1								
LOCATION : At Plot No.:3, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 14.496 mt. START DATE : 12/06/2016 END DATE : 12/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		8.50	1.00	SPT	1	4,12,18	30										
	2					2.00	SPT	2	6,18,22	40										
	3					3.00	SPT	3	3,17,20	37										
	4					4.00	SPT	4	8,26,29	55										
	5					5.00	SPT	5	12,28,30	58										
	6					6.00	SPT	6	18,25,37	62										
	7					7.00	SPT	7	10,20,28	48										
	8					8.00	SPT	8	12,18,32	50										
8.50																				
	9	dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.	Cl		1.50	9.00	SPT	9	18,28,35	63										
10.00	10	Bore terminated @ 10.00 mt.							10.00	SPT	10	15,25,32	57							
	11																			
	12																			
	13																			
	14																			
	15																			



RECORD OF BORING - 26																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.40 mt. BGL CO ORDINATES : Easting : -- 208278.8863 Northing : -- 2369221.8418										Plot No.: 25		Page : 1/1									
LOCATION : At Plot No.:25, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.987 mt. START DATE : 12/06/2016 END DATE : 12/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	yellowish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	12,17,21	38											
	2					2.00	SPT	2	13,18,22	40											
	3					3.00	SPT	3	16,21,27	48											
	4					4.00	SPT	4	16,23,32	55											
	5					5.00	SPT	5	18,20,26	46											
	6					6.00	SPT	6	31,36,50	86											
	7					7.00	SPT	7	30,37,45	82											
	8					8.00	SPT	8	12,21,50	71											
	9					9.00	SPT	9	15,26,45	71											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	21,36,46	82							
	11																				
	12																				
	13																				
	14																				
	15																				


RECORD OF BORING - 27																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 3.00 mt. BGL																				
CO ORDINATES : Easting : -- 208364.8863																				
Northing : -- 2369280.8418																				
Plot No.: 27																				
Page : 1/1																				
LOCATION : At Plot No.:27, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 12.099 mt.																				
START DATE : 13/06/2016																				
END DATE : 13/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with little kankars.	SM		10.00	1.00	SPT	1	9,17,20	37										
	2					2.00	SPT	2	12,16,25	41										
	3					3.00	SPT	3	15,25,38	63										
	4					4.00	SPT	4	18,22,31	53										
	5					5.00	SPT	5	12,21,36	57										
	6					6.00	SPT	6	8,19,27	46										
	7					7.00	SPT	7	7,22,26	48										
	8					8.00	SPT	8	18,29,36	65										
	9					9.00	SPT	9	16,30,38	68										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	10,22,34	56						
	11																			
	12																			
	13																			
	14																			
	15																			



RECORD OF BORING - 28																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 2.70 mt. BGL																				
CO ORDINATES : Easting : -- 208484.8863																				
Northing : -- 2369369.8418																				
Plot No.: 30																				
LOCATION : At Plot No.:30, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 11.532 mt.																				
START DATE : 12/06/2016																				
END DATE : 12/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		7.40	1.00	SPT	1	4,8,12	20										
	2					2.00	SPT	2	6,11,18	29										
	3					3.00	SPT	3	7,10,20	30										
	4					4.00	SPT	4	15,21,24	45										
	5					5.00	SPT	5	16,26,30	56										
	6					6.00	SPT	6	22,28,36	64										
7.40	7					7.00	SPT	7	26,31,39	70										
	8	dark brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.	Cl		2.60	8.00	SPT	8	30,37,43	80										
	9					9.00	SPT	9	33,40,49	89										
10.00	10					10.00	SPT	10	40,45,55	100										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 29																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 208614.3863 Northing : -- 2369463.7793										Plot No.: 33		Page : 1/1									
LOCATION : At Plot No.:33, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.214 mt. START DATE : 13/06/2016 END DATE : 13/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	dark brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	4,8,12	28											
	2					2.00	UDS	1	-	-											
	3					3.00	SPT	2	13,15,26	41											
	4					4.00	SPT	3	16,22,28	50											
	5					5.00	SPT	4	17,23,21	44											
	6					6.00	SPT	5	30,28,32	60											
	7					7.00	SPT	6	30,32,40	72											
	8					8.00	SPT	7	28,36,41	77											
	9					9.00	SPT	8	18,20,50	70											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	26,42,50	92							
	11																				
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 30																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.50 mt. BGL CO ORDINATES : Easting : -- 208741.8863 Northing : -- 2369535.8418										Plot No.: 36		Page : 1/1								
LOCATION : At Plot No.:36, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.407 mt. START DATE : 13/06/2016 END DATE : 13/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)			
8.10	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		8.10	1.00	SPT	1	8,12,16	28										
	2					2.00	SPT	2	10,17,21	38										
	3					3.00	SPT	3	13,15,25	40										
	4					4.00	SPT	4	16,21,27	48										
	5					5.00	SPT	5	16,23,33	56										
	6					6.00	SPT	6	21,31,40	71										
	7					7.00	SPT	7	25,39,45	84										
	8					8.00	SPT	8	29,45,50	95										
10.00	9	dark brownish medium to fine grained silty clay of high plasticity mixed with little kankkars.	CH		1.90	9.00	SPT	9	4,10,15	25										
	10					10.00	SPT	10	5,12,17	29										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 31																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.70 mt. BGL CO ORDINATES : Easting : -- 208846.8863 Northing : -- 2369640.8418										Plot No.: 39		Page : 1/1									
LOCATION : At Plot No.:39, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.678 mt. START DATE : 12/06/2016 END DATE : 12/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)					
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	5,12,20	32											
	2					2.00	SPT	2	7,20,24	44											
	3					3.00	SPT	3	9,18,27	45											
	4					4.00	SPT	4	10,29,30	59											
	5					5.00	SPT	5	12,21,28	49											
	6					6.00	SPT	6	14,29,32	61											
	7					7.00	SPT	7	11,25,32	57											
	8					8.00	SPT	8	18,27,36	63											
	9					9.00	SPT	9	18,29,32	61											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	20,32,43	75							
	11																				
	12																				
	13																				
	14																				
	15																				


RECORD OF BORING - 32																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.40 mt. BGL CO ORDINATES : Easting : -- 208985.0000 Northing : -- 2369734.5610										Plot No.: 42		Page : 1/1							
LOCATION : At Plot No.:42, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : --11.061 mt. START DATE : 13/06/2016 END DATE : 13/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	8,12,19	31						-	-		
	2					2.00	SPT	2	6,14,21	35								-	-
	3					3.00	SPT	3	5,12,22	34								-	-
	4					4.00	SPT	4	9,19,28	47								-	-
	5					5.00	SPT	5	12,22,32	54								-	-
	6					6.00	SPT	6	9,17,28	45								-	-
	7					7.00	SPT	7	14,22,31	53								-	-
	8					8.00	SPT	8	7,19,28	47								-	-
	9					9.00	SPT	9	10,28,25	53								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	20,25,33	58					-
	11																		
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 33																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 3.10 mt. BGL																				
CO ORDINATES : Easting : -- 209061.4537																				
Northing : -- 2369801.828																				
Plot No.: 44																				
Page : 1/1																				
LOCATION : At Plot No.:44, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 10.229 mt.																				
START DATE : 13/06/2016																				
END DATE : 13/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)			
	1	light yellowish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	4,6,4	10										
	2				2.00	SPT	2	10,7,11	18											
	3				3.00	SPT	3	8,5,11	16											
	4				4.00	SPT	4	9,13,8	21											
	5				5.00	SPT	5	10,5,13	18											
	6				6.00	SPT	6	9,11,8	19											
	7				7.00	SPT	7	10,10,15	25											
	8				8.00	SPT	8	7,9,10	19											
	9				9.00	SPT	9	7,11,10	21											
10.00	10				Bore terminated @ 10.00 mt.				10.00	SPT	10	9,15,10	25							
	11																			
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 34																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : -- 209133.0052 Northing : -- 2369876.1763										Plot No.: 46		Page : 1/1										
LOCATION : At Plot No.:46, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.888 mt. START DATE : 13/06/2016 END DATE : 13/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK							
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)						
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	5,8,12	20												
	2					2.00	SPT	2	8,10,15	25												
	3					3.00	SPT	3	12,14,18	32												
	4					4.00	SPT	4	15,20,23	43												
	5					5.00	SPT	5	18,24,24	48												
	6					6.00	SPT	6	22,26,30	56												
	7					7.00	SPT	7	27,32,37	69												
	8					8.00	SPT	8	30,34,46	80												
	9					9.00	SPT	9	33,40,49	89												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	36,43,52	95								
	11																					
	12																					
	13																					
	14																					
	15																					






RECORD OF BORING - 35																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.70 mt. BGL CO ORDINATES : Easting : -- 209170.6713 Northing : -- 2369913.4936										Plot No.: 47		Page : 1/1							
LOCATION : At Plot No.:47, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.792 mt. START DATE : 12/06/2016 END DATE : 12/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)		
	1	light brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	10,12,14	26									
	2					2.00	SPT	2	13,15,21	36									
	3					3.00	SPT	3	16,20,26	46									
	4					4.00	SPT	4	17,21,28	49									
	5					5.00	SPT	5	15,23,27	50									
	6					6.00	SPT	6	31,40,50	90									
	7					7.00	SPT	7	30,37,45	82									
	8					8.00	SPT	8	12,41,50	91									
	9					9.00	SPT	9	18,30,50	80									
10.00	10					10.00	SPT	10	31,49,50	99									
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		


RECORD OF BORING - 36																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : -- 209358.3861 Northing : -- 2370083.2469										Plot No.: 51		Page : 1/1							
LOCATION : At Plot No.:51, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.607 mt. START DATE : 12/06/2016 END DATE : 12/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)			
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	3,6,7	13	0					-	-		
	2					2.00	UDS	1	-	-								-	-
	3					3.00	SPT	2	9,11,15	26	0							-	-
	4					4.00	SPT	3	12,16,20	36	0							-	-
	5					5.00	SPT	4	15,19,23	42	0							-	-
	6					6.00	SPT	5	17,22,27	49	0							-	-
	7					7.00	SPT	6	21,26,30	56	0							-	-
	8					8.00	SPT	7	26,29,34	63	0							-	-
	9					9.00	SPT	8	29,34,40	74	0							-	-
10.00	10					10.00	SPT	9	31,39,45	84	0							-	-
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 37																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary																				
DRILLER : --																				
DIA OF BOREHOLE : 150 mm / Nx m																				
DEPTH OF GWT : @ 2.50 mt. BGL																				
CO ORDINATES : Easting : -- 209494.8892																				
Northing : -- 2370165.8259																				
Plot No.: 54																				
Page : 1/1																				
LOCATION : At Plot No.:54, Alang/Sosiya, Gujarat.																				
DEPTH OF BORE HOLE : 10.00 mt.																				
RL : -- 10.671 mt.																				
START DATE : 13/06/2016																				
END DATE : 13/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	6,13,18	31										
	2					2.00	SPT	2	10,17,22	39										
	3					3.00	SPT	3	18,17,26	43										
	4					4.00	SPT	4	20,25,20	45										
	5					5.00	SPT	5	18,22,26	48										
	6					6.00	SPT	6	30,38,26	64										
	7					7.00	SPT	7	35,40,46	86										
	8					8.00	SPT	8	34,40,60	100										
	9					9.00	SPT	9	36,45,55	100										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	31,42,50	92						
	11																			
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 38																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. GL CO ORDINATES : Easting : -- 209582.78 Northing : -- 2370235.7297										Plot No.: 87		Page : 1/1							
LOCATION : At Plot No.:87, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 9.385 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		10.00	1.00	SPT	1	3,5,8	13						-	-		
	2					2.00	SPT	2	5,7,9	16								-	-
	3					3.00	SPT	3	8,12,15	27								-	-
	4					4.00	SPT	4	11,18,22	40								-	-
	5					5.00	SPT	5	16,21,25	46								-	-
	6					6.00	SPT	6	19,26,28	54								-	-
	7					7.00	SPT	7	22,28,32	60								-	-
	8					8.00	SPT	8	26,30,35	65								-	-
	9					9.00	SPT	9	30,36,40	76								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	37,43,50	93					-
	11																		
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 39																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.40 mt. BGL CO ORDINATES : Easting : -- 209829.0985 Northing : -- 2370566.3302										Plot No.: 88		Page : 1/1								
LOCATION : At Plot No.:88, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.600 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)				
6.30	1	brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		6.30	1.00	SPT	1	10,15,26	41										
	2					2.00	SPT	2	12,17,21	38										
	3					3.00	SPT	3	15,20,36	56										
	4					4.00	SPT	4	16,21,25	46										
	5					5.00	SPT	5	18,28,20	48										
	6					6.00	SPT	6	29,38,41	79										
8.40	7	brownish medium to fine grained silty clay of medium plasticity mixed with kankkars.	Cl		2.10	7.00	SPT	7	15,26,31	57										
	8					8.00	SPT	8	17,29,32	61										
10.00	9	light brownish medium to coarse grained non plastic silty sand.	SM		1.60	9.00	SPT	9	31,39,42	81										
	10					10.00	SPT	10	30,35,42	77										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 40																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.80 mt. BGL CO ORDINATES : Easting : --209902.2029 Northing : -- 2370637.4151										Plot No.: 91		Page : 1/1								
LOCATION : At Plot No.:91, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.142 mt. START DATE : 13/06/2016 END DATE : 13/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,8,14	22										
	2					2.00	SPT	2	7,16,20	36										
	3					3.00	SPT	3	5,18,26	44										
	4					4.00	SPT	4	8,12,24	36										
	5					5.00	SPT	5	8,16,27	43										
	6					6.00	SPT	6	10,23,29	52										
	7					7.00	SPT	7	8,21,27	48										
	8					8.00	SPT	8	12,24,29	53										
	9					9.00	SPT	9	18,25,34	59										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	21,25,37	62						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 41																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.10 mt. BGL CO ORDINATES : Easting : --209947.0579 Northing : -- 2370677.7934										Plot No.: 93		Page : 1/1								
LOCATION : At Plot No.:93, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.438 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	0	20	40	60	80	100	CR (%)	RQD (%)		
	1	yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,12,17	29										
	2					2.00	UDS	1	-	-										
	3					3.00	SPT	2	8,12,17	29										
	4					4.00	SPT	3	12,17,27	44										
	5					5.00	SPT	4	8,10,24	34										
	6					6.00	SPT	5	12,20,27	47										
	7					7.00	SPT	6	8,12,19	31										
	8					8.00	SPT	7	12,22,24	46										
	9					9.00	SPT	8	10,18,25	43										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	18,25,38	63						
	11																			
	12																			
	13																			
	14																			
	15																			

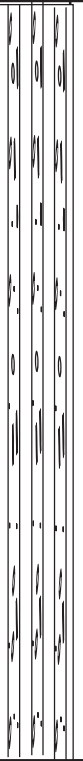


RECORD OF BORING - 42																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.70 mt. BGL CO ORDINATES : Easting : -- 210027.365 Northing : -- 2370756.498										Plot No.: 96		Page : 1/1										
LOCATION : At Plot No.:96, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.596 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK							
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)						
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,12,18	30												
	2					2.00	SPT	2	8,14,17	31												
	3					3.00	SPT	3	8,18,25	43												
	4					4.00	SPT	4	9,17,21	38												
	5					5.00	SPT	5	5,18,21	39												
	6					6.00	SPT	6	9,15,20	35												
	7					7.00	SPT	7	5,10,21	31												
	8					8.00	SPT	8	7,18,28	46												
	9					9.00	SPT	9	12,22,37	59												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	14,28,30	58								
	11																					
	12																					
	13																					
	14																					
	15																					

RECORD OF BORING - 43																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary																			
DRILLER : --																			
DIA OF BOREHOLE : 150 mm / Nx m																			
DEPTH OF GWT : @ 3.00 mt. BGL																			
CO ORDINATES : Easting : -- 210052.9704																			
Northing : -- 2370786.6533																			
Plot No.: 98																			
LOCATION : At Plot No.:98, Alang/Sosiya, Gujarat.																			
DEPTH OF BORE HOLE : 10.00 mt.																			
RL : -- 12.315 mt.																			
START DATE : 15/06/2016																			
END DATE : 15/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	0	20	40	60	80	100	CR (%)	RQD (%)	
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	5,12,18	30									
	2					2.00	UDS	1	-	-									
	3					3.00	SPT	2	8,15,20	35									
	4					4.00	SPT	3	12,21,28	49									
	5					5.00	SPT	4	8,12,31	43									
	6					6.00	SPT	5	7,18,32	50									
	7					7.00	SPT	6	10,21,35	56									
	8					8.00	SPT	7	9,25,37	62									
	9					9.00	SPT	8	11,30,37	67									
10.00	10					10.00	SPT	9	12,27,33	60									
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 44																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.50 mt. BGL CO ORDINATES : Easting : -- 210091.0882 Northing : -- 2370832.5004										Plot No.: 100		Page : 1/1										
LOCATION : At Plot No.:100, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 14.556 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	2	4	6	8	10	CR (%)	RQD (%)					
1.70	1	dark brownish gravels mixed with medium to fine grained non plastic silty sand.	GM		1.70	1.00	SPT	1	8,4,10	14							-	-				
	2	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		8.30	2.00	SPT	2	10,12,8	20								-	-			
	3					3.00	SPT	3	7,12,14	26										-	-	
	4					4.00	SPT	4	14,9,10	19											-	-
	5					5.00	SPT	5	8,11,12	23											-	-
	6					6.00	SPT	6	14,11,14	25											-	-
	7					7.00	SPT	7	16,16,18	34											-	-
	8					8.00	SPT	8	14,4,10	14											-	-
	9					9.00	SPT	9	10,9,10	19											-	-
10.00	10					10.00	SPT	10	9,11,11	22											-	-
	11	Bore terminated @ 10.00 mt.																				
	12																					
	13																					
	14																					
	15																					

RECORD OF BORING - 45																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.80 mt. BGL CO ORDINATES : Easting : -- 210305.0171 Northing : -- 2371059.889										Plot No.: V-2		Page : 1/1									
LOCATION : At Plot No.:V-2, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.082 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)				
	1	light brownish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	8,12,24	36											
	2					2.00	SPT	2	4,12,19	31											
	3					3.00	SPT	3	7,18,21	39											
	4					4.00	SPT	4	10,12,18	30											
	5					5.00	SPT	5	12,18,21	39											
	6					6.00	SPT	6	9,17,20	37											
	7					7.00	SPT	7	12,21,30	51											
	8					8.00	SPT	8	12,28,39	67											
	9					9.00	SPT	9	10,29,35	64											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	12,25,31	56							
	11																				
	12																				
	13																				
	14																				
	15																				


RECORD OF BORING - 46																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : -- 210389.0571 Northing : -- 2371144.5022										Plot No.: V-3		Page : 1/1										
LOCATION : At Plot No.:V-3, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.421 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)					
	1	brownish medium to coarse grained non plastic silty sand mixed with little kankars.	SM		10.00	1.00	SPT	1	7,11,23	34												
	2					2.00	SPT	2	8,10,21	31												
	3					3.00	SPT	3	6,14,22	36												
	4					4.00	SPT	4	13,16,27	43												
	5					5.00	SPT	5	8,21,27	48												
	6					6.00	SPT	6	7,12,24	36												
	7					7.00	SPT	7	10,18,29	47												
	8					8.00	SPT	8	18,22,36	58												
	9					9.00	SPT	9	13,25,32	57												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	11,18,35	53								
	11																					
	12																					
	13																					
	14																					
	15																					

RECORD OF BORING - 47																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.50 mt. BGL CO ORDINATES : Easting : -- 210487.6449 Northing : -- 2371223.3353										Plot No.: V-4		Page : 1/1								
LOCATION : At Plot No.:V-4, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.723 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	6,10,15	25										
	2					2.00	SPT	2	8,15,20	35										
	3					3.00	SPT	3	12,16,23	39										
	4					4.00	SPT	4	18,20,24	44										
	5					5.00	SPT	5	19,22,25	47										
	6					6.00	SPT	6	27,33,39	72										
	7					7.00	SPT	7	30,37,43	80										
	8					8.00	SPT	8	35,40,48	88										
	9					9.00	SPT	9	40,50,30	80										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	45,56,62	>100						
	11																			
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 48																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 210565.7905 Northing : -- 2371278.476										Plot No.: V-5		Page : 1/1								
LOCATION : At Plot No.:V-5, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.185 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	light yellowish medium to coarse grained non plastic silty sand mixed with little kankkars.	SM		10.00	1.00	SPT	1	6,12,16	28										
	2					2.00	SPT	2	11,15,20	35										
	3					3.00	UDS	1	-	-										
	4					4.00	SPT	3	16,15,23	38										
	5					5.00	SPT	4	20,20,22	42										
	6					6.00	SPT	5	22,24,32	56										
	7					7.00	SPT	6	32,38,42	80										
	8					8.00	SPT	7	33,40,45	85										
	9					9.00	SPT	8	35,43,50	93										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	43,60,23	83						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 49																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.70 mt. BGL CO ORDINATES : Easting : -- 210665.0000 Northing : -- 2371350.3573										Plot No.: 106		Page : 1/1							
LOCATION : At Plot No.:106, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.658 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)			
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,12,16	28						-	-		
	2					2.00	SPT	2	10,14,16	30								-	-
	3					3.00	SPT	3	12,17,19	36								-	-
	4					4.00	SPT	4	15,19,23	42								-	-
	5					5.00	SPT	5	20,22,26	48								-	-
	6					6.00	SPT	6	21,29,35	64								-	-
	7					7.00	SPT	7	25,28,34	62								-	-
	8					8.00	SPT	8	30,41,50	91								-	-
	9					9.00	SPT	9	32,41,44	85								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	30,39,42	81					-
	11																		
	12																		
	13																		
	14																		
	15																		



RECORD OF BORING - 50																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : -- 210714.4926 Northing : -- 2371389.765										Plot No.: 108		Page : 1/1							
LOCATION : At Plot No.:108, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.931 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)		
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	13,17,23	40						-	-		
	2					2.00	SPT	2	16,20,26	46								-	-
	3					3.00	SPT	3	20,29,36	65								-	-
	4					4.00	SPT	4	20,25,21	46								-	-
	5					5.00	SPT	5	22,30,39	69								-	-
	6					6.00	SPT	6	25,41,50	91								-	-
	7					7.00	SPT	7	29,35,40	75								-	-
	8					8.00	SPT	8	31,35,37	72								-	-
	9					9.00	SPT	9	31,39,42	81								-	-
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	32,37,48	85					-
	11																		
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 51																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 210819.8914 Northing : -- 2371492.2017										Plot No.: 113		Page : 1/1								
LOCATION : At Plot No.:113, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.034 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N						CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	10,9,10	19										
	2					2.00	SPT	2	11,10,9	19										
	3					3.00	SPT	3	10,5,10	15										
	4					4.00	SPT	4	9,10,10	20										
	5					5.00	SPT	5	11,10,10	20										
	6					6.00	SPT	6	9,10,11	21										
	7					7.00	SPT	7	14,14,10	24										
	8					8.00	SPT	8	10,14,10	24										
	9					9.00	SPT	9	10,14,14	28										
10.00	10					10.00	SPT	10	14,14,10	24										
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 52																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.10 mt. BGL CO ORDINATES : Easting : -- 210927.3702 Northing : -- 2371597.3173										Plot No.: 117		Page : 1/1							
LOCATION : At Plot No.:117, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.172 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)			
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	3,6,9	15									
	2					2.00	SPT	2	9,12,14	26									
	3					3.00	SPT	3	12,16,19	35									
	4					4.00	SPT	4	16,20,23	43									
	5					5.00	SPT	5	21,26,28	54									
	6					6.00	SPT	6	17,24,26	50									
	7					7.00	SPT	7	26,30,33	63									
	8					8.00	SPT	8	28,36,40	76									
	9					9.00	SPT	9	32,39,42	81									
10.00	10					10.00	SPT	10	37,43,49	92									
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		

RECORD OF BORING - 53																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.60 mt. BGL CO ORDINATES : Easting : -- 210949.4281 Northing : -- 2371627.4477										Plot No.: 120		Page : 1/1									
LOCATION : At Plot No.:120, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.757 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)					
	1	light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,12,28	40											
	2					2.00	SPT	2	8,13,20	33											
	3					3.00	SPT	3	12,28,33	61											
	4					4.00	SPT	4	8,12,24	36											
	5					5.00	SPT	5	10,25,35	60											
	6					6.00	SPT	6	9,18,29	47											
	7					7.00	SPT	7	12,18,35	53											
	8					8.00	SPT	8	18,25,30	55											
	9					9.00	SPT	9	15,28,32	60											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	18,28,35	63							
	11																				
	12																				
	13																				
	14																				
	15																				


RECORD OF BORING - 54																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.90 mt. BGL CO ORDINATES : Easting : -- 210993.3878 Northing : -- 2371687.9678										Plot No.: 122		Page : 1/1										
LOCATION : At Plot No.:122, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.899 mt. START DATE : 14/06/2016 END DATE : 14/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK							
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)						
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	4,11,16	27												
	2					2.00	SPT	2	8,12,18	30												
	3					3.00	SPT	3	7,18,21	39												
	4					4.00	SPT	4	9,19,25	44												
	5					5.00	SPT	5	10,18,22	40												
	6					6.00	SPT	6	12,19,25	44												
	7					7.00	SPT	7	19,25,35	60												
	8					8.00	SPT	8	18,30,35	65												
	9					9.00	SPT	9	10,25,30	55												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	9,21,35	56								
	11																					
	12																					
	13																					
	14																					
	15																					






RECORD OF BORING - 56																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.70 mt. BGL CO ORDINATES : Easting : -- 211138.0416 Northing : -- 2371889.6252										Plot No.: 130		Page : 1/1								
LOCATION : At Plot No.:130, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.801 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	10,14,20	34										
	2					2.00	UDS	1	-	-										
	3					3.00	SPT	2	13,15,25	40										
	4					4.00	SPT	3	16,21,27	48										
	5					5.00	SPT	4	16,23,23	46										
	6					6.00	SPT	5	30,39,50	89										
	7					7.00	SPT	6	31,37,50	87										
	8					8.00	SPT	7	28,36,40	76										
	9					9.00	SPT	8	35,40,62	>100										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	25,41,50	91						
	11																			
	12																			
	13																			
	14																			
	15																			


RECORD OF BORING - 57																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : -- 211224.0217 Northing : -- 2372025.1818										Plot No.: 135		Page : 1/1								
LOCATION : At Plot No.:135, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.852 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	7,13,17	30										
	2					2.00	SPT	2	12,16,22	38										
	3					3.00	SPT	3	11,15,20	35										
	4					4.00	SPT	4	15,20,24	44										
	5					5.00	SPT	5	19,26,22	48										
	6					6.00	SPT	6	22,28,32	60										
	7					7.00	SPT	7	18,26,30	56										
	8					8.00	SPT	8	27,33,38	71										
	9					9.00	SPT	9	32,36,41	77										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	28,33,44	77						
	11																			
	12																			
	13																			
	14																			
	15																			



RECORD OF BORING - 58																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 211282.1086 Northing : -- 2372110.9643										Plot No.: 140		Page : 1/1								
LOCATION : At Plot No.:140, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.773 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	5,8,11	19										
	2					2.00	SPT	2	12,14,19	33										
	3					3.00	SPT	3	13,18,23	41										
	4					4.00	SPT	4	12,17,21	38										
	5					5.00	SPT	5	14,19,25	44										
	6					6.00	SPT	6	20,26,29	55										
	7					7.00	SPT	7	24,28,32	60										
	8					8.00	SPT	8	28,33,36	69										
	9					9.00	SPT	9	30,34,40	74										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	38,40,49	89						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 59																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
Plot No.: 141-M <span style="float: right;">Page : 1/1</span>																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.70 mt. BGL CO ORDINATES : Easting : -- 211330.5729 Northing : -- 2372191.9306					LOCATION : At Plot No.:141-M, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.466 mt. START DATE : 15/06/2016 END DATE : 15/06/2016															
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)			
1.30	1	brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		1.30	1.00	SPT	1	10,12,15	27						-	-			
2.80	2	dark brownish gravels mixed with medium to fine grained non plastic silty sand.	GM		1.50	2.00	SPT	2	11,16,16	32						-	-			
	3	dark brownish medium to coarse grained non plastic silty sand mixed with kankars.	SM		7.20	3.00	SPT	3	15,17,23	40							-	-		
	4					4.00	SPT	4	16,20,26	46									-	-
	5					5.00	SPT	5	19,22,26	48									-	-
	6					6.00	SPT	6	22,29,32	61									-	-
	7					7.00	SPT	7	25,28,36	64									-	-
	8					8.00	SPT	8	22,25,39	54									-	-
	9					9.00	SPT	9	16,23,28	51									-	-
	10					10.00	SPT	10	30,39,44	83									-	-
	11	Bore terminated @ 10.00 mt.																		
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 60																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.40 mt. BGL CO ORDINATES : Easting : -- 211407.4545 Northing : -- 2372345.9664										Plot No.: 144		Page : 1/1								
LOCATION : At Plot No.:144, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.592 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)			
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	5,18,22	40										
	2					2.00	SPT	2	7,19,28	47										
	3					3.00	SPT	3	10,19,29	48										
	4					4.00	SPT	4	12,20,24	44										
	5					5.00	SPT	5	19,23,24	47										
	6					6.00	SPT	6	13,21,38	59										
	7					7.00	SPT	7	20,29,38	67										
	8					8.00	SPT	8	22,28,37	65										
	9					9.00	SPT	9	18,28,35	63										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	17,28,39	67						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 61																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.90 mt. BGL CO ORDINATES : Easting : -- 211407.4545 Northing : -- 2372345.9664										Plot No.: 148		Page : 1/1								
LOCATION : At Plot No.:148, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.592 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	5,18,22	40										
	2					2.00	UDS	1	-	-										
	3					3.00	SPT	2	8,17,25	42										
	4					4.00	SPT	3	13,20,24	44										
	5					5.00	SPT	4	7,12,28	40										
	6					6.00	SPT	5	12,24,38	62										
	7					7.00	SPT	6	9,18,35	53										
	8					8.00	SPT	7	5,24,39	63										
	9					9.00	SPT	8	14,29,38	67										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	9	19,27,37	64						
	11																			
	12																			
	13																			
	14																			
	15																			



RECORD OF BORING - 62																			
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																			
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.60 mt. BGL CO ORDINATES : Easting : -- 211478.3986 Northing : -- 2372459.122										Plot No.: 151		Page : 1/1							
LOCATION : At Plot No.:151, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.953 mt. START DATE : 15/06/2016 END DATE : 15/06/2016																			
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40	60	80	100	CR (%)	RQD (%)		
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,17,26	43									
	2					2.00	UDS	1	-	-									
	3					3.00	SPT	2	10,14,21	35									
	4					4.00	SPT	3	17,22,29	51									
	5					5.00	SPT	4	19,25,22	47									
	6					6.00	SPT	5	20,29,32	61									
	7					7.00	SPT	6	30,39,42	81									
	8					8.00	SPT	7	17,26,31	57									
	9					9.00	SPT	8	14,25,32	57									
10.00	10					10.00	SPT	9	19,30,39	69									
	11	Bore terminated @ 10.00 mt.																	
	12																		
	13																		
	14																		
	15																		


RECORD OF BORING - 63																		
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																		
Plot No.: 153-M <span style="float: right;">Page : 1/1</span>																		
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.20 mt. BGL CO ORDINATES : Easting : -- 211501.3786 Northing : -- 2372511.6129					LOCATION : At Plot No.:153-M Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.994 mt. START DATE : 04/06/2016 END DATE : 04/06/2016													
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK			
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)	
	1	light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	6,9,10	19						-	-	
	2					2.00	SPT	2	7,9,16	25							-	-
	3					3.00	SPT	3	10,12,20	32							-	-
	4					4.00	SPT	4	12,16,22	38							-	-
	5					5.00	SPT	5	16,20,25	45							-	-
	6					6.00	SPT	6	18,30,34	64							-	-
	7					7.00	SPT	7	11,34,38	72							-	-
	8					8.00	SPT	8	21,43,69	>100							-	-
	9					9.00	SPT	9	32,48,60	>100							-	-
10.00	10					10.00	SPT	10	35,52,58	>100							-	-
	11	Bore terminated @ 10.00 mt.																
	12																	
	13																	
	14																	
	15																	

RECORD OF BORING - 64																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.80 mt. BGL CO ORDINATES : Easting : -- 211542.6064 Northing : -- 2372567.4047										Plot No.: 155-156		Page : 1/1									
LOCATION : At Plot No.:155-156 Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 7.00 mt. RL : -- 11.512 mt. START DATE : 04/06/2016 END DATE : 04/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N	20	40	60	80	100	CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		7.00	1.00	SPT	1	8,12,17	29											
	2					2.00	SPT	2	6,20,26	46											
	3					3.00	SPT	3	10,31,54	85											
	4					4.00	SPT	4	13,37,50	87											
	5					5.00	SPT	5	20,46,52	>100											
	6					6.00	SPT	6	26,52,60	>100											
7.00	7					7.00	SPT	7	16,36,46	82											
	8	Bore terminated @ 7.00 mt.																			
	9																				
	10																				
	11																				
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 65																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.40 mt. BGL CO ORDINATES : Easting : -- 211620.6387 Northing : -- 2372667.0152										Plot No.: 160		Page : 1/1									
LOCATION : At Plot No.:160, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 10.907 mt. START DATE : 01/06/2016 END DATE : 01/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N					CR (%)	RQD (%)					
	1	dark brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	12,22,30	52											
	2					2.00	SPT	2	8,13,20	33											
	3					3.00	SPT	3	16,22,24	46											
	4					4.00	SPT	4	19,19,23	42											
	5					5.00	SPT	5	14,14,24	38											
	6					6.00	SPT	6	9,21,36	57											
	7					7.00	SPT	7	40,30,35	65											
	8					8.00	SPT	8	15,22,29	51											
	9					9.00	SPT	9	16,23,31	54											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	16,21,31	52							
	11																				
	12																				
	13																				
	14																				
	15																				



RECORD OF BORING - 66																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.10 mt. BGL CO ORDINATES : Easting : -- 211696.8827 Northing : -- 2372774.0799										Plot No.: 163			Page : 1/1								
LOCATION : At Plot No.:163, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 8.804 mt. START DATE : 01/06/2016 END DATE : 01/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	2	4	6	8	10	CR (%)	RQD (%)				
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		7.10	1.00	SPT	1	10,13,17	30											
	2					2.00	SPT	2	13,16,21	37											
	3					3.00	SPT	3	13,11,24	35											
	4					4.00	SPT	4	6,7,8	15											
	5					5.00	SPT	5	6,7,7	14											
	6					6.00	SPT	6	6,8,9	17											
7.10	7									7.00	SPT	7	16,14,24	38							
	8	brownish medium to fine grained silty clay of high plasticity mixed with little kankkars.	CH		2.90	8.00	SPT	8	13,15,17	32											
	9					9.00	SPT	9	13,20,24	44											
10.00	10									10.00	SPT	10	20,28,37	65							
	11	Bore terminated @ 10.00 mt.																			
	12																				
	13																				
	14																				
	15																				

RECORD OF BORING - 67																						
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																						
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 2.60 mt. BGL CO ORDINATES : Easting : -- 212071.2235 Northing : -- 2373207.7021										Plot No.: V-6		Page : 1/1										
LOCATION : At Plot No.:V-6, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 11.656 mt. START DATE : 02/06/2016 END DATE : 02/06/2016																						
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK						
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)					
	1	light yellowish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	10,16,20	36												
	2					2.00	SPT	2	10,12,16	28												
	3					3.00	SPT	3	8,16,18	34												
	4					4.00	SPT	4	4,18,21	39												
	5					5.00	SPT	5	10,14,15	29												
	6					6.00	SPT	6	10,13,14	27												
	7					7.00	SPT	7	15,14,21	35												
	8					8.00	SPT	8	8,13,24	37												
	9					9.00	SPT	9	9,11,13	24												
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	4,8,14	22								
	11																					
	12																					
	13																					
	14																					
	15																					

RECORD OF BORING - 68																		
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																		
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.50 mt. BGL CO ORDINATES : Easting : -- 212223.042 Northing : -- 2373385.7334										Plot No.: V-8		Page : 1/1						
LOCATION : At Plot No.:V-8, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 12.722 mt. START DATE : 02/06/2016 END DATE : 02/06/2016										OBSERVED SPT VALUES		N value/ 30cms.		ROCK				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.		CR (%)	RQD (%)				
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2, N3	N	20	40			60	80	100	
	1	brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	11,16,18	34					-	-		
	2					2.00	SPT	2	8,13,15	28							-	-
	3					3.00	SPT	3	10,15,20	35							-	-
	4					4.00	SPT	4	18,27,31	58							-	-
	5					5.00	SPT	5	12,13,20	33							-	-
	6					6.00	SPT	6	8,5,5	10							-	-
	7					7.00	SPT	7	13,16,18	34							-	-
	8					8.00	SPT	8	13,19,22	41							-	-
	9					9.00	SPT	9	10,13,14	27							-	-
10.00	10					10.00	SPT	10	14,15,23	38							-	-
	11	Bore terminated @ 10.00 mt.																
	12																	
	13																	
	14																	
	15																	

RECORD OF BORING - 69																				
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																				
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.30 mt. BGL CO ORDINATES : Easting : -- 212307.1279 Northing : -- 2373486.3079										Plot No.: V-9		Page : 1/1								
LOCATION : At Plot No.:V-9, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 13.679 mt. START DATE : 03/06/2016 END DATE : 03/06/2016																				
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.				ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N					CR (%)	RQD (%)				
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	8,13,17	30										
	2					2.00	SPT	2	7,11,18	29										
	3					3.00	SPT	3	10,16,22	38										
	4					4.00	SPT	4	12,15,23	38										
	5					5.00	SPT	5	11,17,22	39										
	6					6.00	SPT	6	13,21,25	46										
	7					7.00	SPT	7	15,30,42	72										
	8					8.00	SPT	8	19,35,37	72										
	9					9.00	SPT	9	32,46,56	>100										
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	30,42,60	>100						
	11																			
	12																			
	13																			
	14																			
	15																			

RECORD OF BORING - 70																					
NAME OF PROJECT : Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.																					
METHOD OF DRILLING : Rotary DRILLER : -- DIA OF BOREHOLE : 150 mm / Nx m DEPTH OF GWT : @ 3.00 mt. BGL CO ORDINATES : Easting : --212358.8814 Northing : -- 2373584.0243										Plot No.: V-10		Page : 1/1									
LOCATION : At Plot No.:V-10, Alang/Sosiya, Gujarat. DEPTH OF BORE HOLE : 10.00 mt. RL : -- 14.101 mt. START DATE : 03/06/2016 END DATE : 03/06/2016																					
DEPTH (m)	Depth (meter)	DESCRIPTION OF STRATA	Soil Classification	STRATA		SAMPLE			OBSERVED SPT VALUES		N value/ 30cms.					ROCK					
				Legend	Thickness (m)	DEPTH (m)	TYPE	NO.	N1, N2 , N3	N						CR (%)	RQD (%)				
	1	light brownish medium to coarse grained non plastic silty sand mixed with kankkars.	SM		10.00	1.00	SPT	1	6,6,7	13											
	2					2.00	SPT	2	6,7,6	13											
	3					3.00	SPT	3	6,7,10	17											
	4					4.00	SPT	4	6,8,11	19											
	5					5.00	SPT	5	13,19,24	43											
	6					6.00	SPT	6	15,20,30	50											
	7					7.00	SPT	7	12,22,24	46											
	8					8.00	SPT	8	8,8,19	27											
	9					9.00	SPT	9	30,36,37	73											
10.00	10					Bore terminated @ 10.00 mt.				10.00	SPT	10	32,40,64	>100							
	11																				
	12																				
	13																				
	14																				
	15																				

**ANNEXURE- 3**  
**LABORATORY TEST RESULTS**

## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:84-F, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		84-F						
						<b>GROUND WATER TABLE:</b>			2.80 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	39	-	-	5.6	1	2	27	53	17	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	41	-	-	7.5	4	1	34	46	15	--	NP	--	SM	2.67	-	-	-	
3.00	SPT	47	-	-	7.5	3	2	48	23	23	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	>100	-	-	7.4	2	2	42	40	14	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	71	-	-	6.8	0	0	2	5	93	43	23	20	CI	2.55	-	-	-	
6.00	SPT	67	-	-	4.9	1	1	2	4	92	50	22	28	CH	2.49	-	-	-	
7.00	SPT	52	-	-	5.6	1	1	4	7	87	56	28	28	CH	2.51	-	-	-	
8.00	SPT	44	-	-	7.6	0	0	1	7	92	58	32	26	CH	2.53	-	-	-	
9.00	SPT	46	-	-	5.3	5	4	19	18	54	42	25	17	CI	2.55	-	-	-	
10.00	SPT	>100	-	-	7.6	0	2	16	15	67	45	26	19	CI	2.58	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:72, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.									<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>		72		
											<b>GROUND WATER TABLE:</b>			3.10 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS kg/cm <sup>2</sup>	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	27	-	-	6.3	10	16	29	5	39	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	49	-	-	5.4	11	6	45	25	14	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	91	-	-	7.6	0	0	39	45	16	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	77	-	-	5.6	20	5	46	17	12	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	93	-	-	4.6	1	6	60	17	17	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	65	-	-	8.9	0	1	62	21	15	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	46	-	-	5.6	0	0	63	22	14	--	NP	--	SM	2.64	-	-	-	
8.00	SPT	52	-	-	3.9	1	23	57	1	17	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	63	-	-	8.6	4	24	54	6	12	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	98	-	-	4.6	21	18	22	2	38	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:82, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	82						
							<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	21	-	-	5.6	24	6	13	10	47	37	16	21	SC	2.64	-	-	-	
2.00	SPT	27	-	-	4.9	6	7	46	26	15	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	68	-	-	5.9	3	7	48	28	14	--	NP	--	SM	2.62	-	-	-	
4.00	SPT	95	-	-	7.5	0	10	59	18	13	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	47	-	-	6.4	8	34	41	1	16	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	64	-	-	5.4	7	30	49	1	13	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	80	-	-	4.6	9	38	36	1	16	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	>100	-	-	10.1	8	5	27	17	43	36	22	14	SC	2.63	-	-	-	
9.00	SPT	>100	-	-	13.2	2	4	18	14	62	43	22	21	CI	2.59	-	-	-	
10.00	SPT	82	-	-	6.7	26	7	20	15	32	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:77, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		77						
						<b>GROUND WATER TABLE:</b>			3.40 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	19	-	-	4.6	6	12	50	19	13	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	29	-	-	5.3	26	26	28	4	16	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	33	-	-	4.9	26	23	24	6	22	--	NP	--	SM	2.6	-	-	-	
4.00	SPT	45	-	-	6.7	38	14	17	10	21	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	34	-	-	5.6	37	18	20	12	13	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	47	-	-	8.3	39	18	22	9	12	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	85	-	-	11.3	2	3	16	18	61	48	27	21	CI	2.52	-	-	-	
8.00	SPT	84	-	-	10.6	16	2	10	14	58	47	27	20	CI	2.57	-	-	-	
9.00	SPT	84	-	-	11.7	0	1	2	9	88	49	27	22	CI	2.59	-	-	-	
10.00	SPT	89	-	-	10.9	0	1	4	9	86	47	26	21	CI	2.50	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:73, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		73						
						<b>GROUND WATER TABLE:</b>			2.80 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS kg/cm <sup>2</sup>	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	33	-	-	6.5	1	2	41	41	15	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	54	-	-	4.7	1	2	25	55	17	--	NP	--	SM	2.68	-	-	-	
3.00	SPT	75	-	-	8.6	3	1	38	45	13	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	38	-	-	5.6	1	6	50	25	18	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	48	-	-	3.5	3	3	24	53	17	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	80	-	-	7.6	6	3	13	64	14	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	34	-	-	5.6	1	3	71	12	13	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	75	-	-	4.6	1	0	12	68	18	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	>100	-	-	8.5	0	4	47	33	16	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	>100	-	-	6.4	10	17	38	20	15	--	NP	--	SM	2.62	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:68, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.						<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		68				
								<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>		1				
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	31	-	-	6.3	1	0	27	55	17	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	60	-	-	4.9	1	0	28	58	13	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	37	-	-	5.1	16	6	32	26	20	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	55	-	-	9.2	4	3	13	12	68	33	19	14	CL	2.61	-	-	-	
5.00	SPT	48	-	-	8.6	1	2	19	19	59	34	21	13	CL	2.60	-	-	-	
6.00	SPT	47	-	-	5.6	4	19	45	8	24	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	>100	-	-	4.6	5	22	51	6	17	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	84	-	-	10.3	0	0	6	1	93	68	27	41	CH	2.56	-	-	-	
9.00	SPT	85	-	-	11.3	0	0	6	2	92	52	23	29	CH	2.51	-	-	-	
10.00	SPT	88	-	-	10.7	0	0	1	2	97	60	27	33	CH	2.57	-	-	-	
<p>Note. 1 Water level may not be accurate due to low and high tide of sea.  2 Actual water contents of the disturbed soil sample will be differ than the mention one.</p>																			
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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:66, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		66						
						<b>GROUND WATER TABLE:</b>			2.50 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	22	-	-	5.6	33	10	26	14	17	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	82	-	-	4.6	5	3	48	30	14	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	85	-	-	8.5	9	5	40	30	16	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	47	-	-	6.4	3	6	52	27	12	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	72	-	-	5.7	8	6	47	26	13	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	65	-	-	4.6	10	27	19	19	25	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	67	-	-	5.6	10	14	28	25	23	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	72	-	-	4.6	10	20	35	12	22	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	49	-	-	8.2	11	13	33	31	12	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	71	-	-	10.3	6	4	2	1	87	51	19	32	CH	2.53	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:64, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	64						
							<b>GROUND WATER TABLE:</b>			2.70 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	21	-	-	9.9	22	8	22	15	33	37	23	14	SC	2.61	-	-	-	
2.00	SPT	30	-	-	5.6	1	2	58	24	15	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	45	-	-	7.1	10	8	47	17	18	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	52	-	-	4.9	9	5	42	28	16	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	62	-	-	7.6	3	5	21	24	47	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	66	-	-	11.6	4	5	3	8	80	41	29	12	CI	2.55	-	-	-	
7.00	SPT	49	-	-	10.6	0	0	12	4	84	40	26	14	CI	2.57	-	-	-	
8.00	SPT	65	-	-	13.2	3	1	4	2	90	43	26	17	CI	2.59	-	-	-	
9.00	SPT	94	-	-	5.9	27	10	25	14	24	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	>100	-	-	7.6	14	15	49	11	12	--	NP	--	SM	2.65	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:62, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		62					
							<b>GROUND WATER TABLE:</b>			3.10 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	38	-	-	4.6	0	1	26	57	16	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	32	-	-	5.6	1	1	24	63	12	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	40	-	-	7.5	1	1	33	50	15	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	44	-	-	6.3	1	22	58	3	15	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	59	-	-	5.6	16	27	33	6	17	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	62	-	-	7.6	9	25	43	8	15	--	NP	--	SM	2.65	-	-	-	
7.00	SPT	65	-	-	4.6	16	25	38	6	14	--	NP	--	SM	2.64	-	-	-	
8.00	SPT	60	-	-	6.4	12	24	31	8	25	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	32	-	-	13.5	0	0	2	5	93	65	36	29	CH	2.47	-	-	-	
10.00	SPT	55	-	-	16.2	0	0	2	5	93	61	30	31	CH	2.51	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:60, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	60						
							<b>GROUND WATER TABLE:</b>			2.60 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	40	-	-	6.2	6	13	36	33	12	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	30	-	-	5.3	7	11	30	35	17	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	39	-	-	4.9	6	11	34	35	15	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	45	-	-	5.6	1	3	63	15	18	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	73	-	-	7.8	0	0	55	30	15	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	59	-	-	6.5	0	0	53	27	19	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	64	-	-	6.3	10	32	29	9	20	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	48	-	-	5.1	0	0	65	10	25	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	53	-	-	4.6	0	0	68	5	27	--	NP	--	SM	2.64	-	-	-	
10.00	SPT	62	-	-	4.9	3	25	43	1	27	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:57, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	57						
							<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	49	-	-	6.3	3	4	51	28	14	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	48	-	-	4.5	2	4	50	29	15	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	56	-	-	6.1	6	8	54	15	17	--	NP	--	SM	2.68	-	-	-	
4.00	SPT	58	-	-	7.6	7	9	53	11	20	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	59	-	-	8.2	4	3	48	31	14	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	42	-	-	5.6	1	2	26	54	17	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	55	-	-	7.5	16	8	44	15	17	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	53	-	-	5.6	14	18	18	3	47	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	63	-	-	10.6	13	4	15	16	52	34	17	17	CL	2.61	-	-	-	
10.00	SPT	71	-	-	8.9	7	2	19	18	54	33	20	13	CL	2.58	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:55, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.									<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>		55		
											<b>GROUND WATER TABLE:</b>			2.65 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	6.3	0	1	29	55	15	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	39	-	-	6.4	8	6	44	25	17	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	44	-	-	5.1	3	16	58	10	13	--	NP	--	SM	2.60	-	-	-	
4.00	SPT	45	-	-	7.6	4	9	45	25	17	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	48	-	-	4.9	2	10	37	29	23	--	NP	--	SM	2.65	-	-	-	
6.00	SPT	70	-	-	5.6	0	0	44	44	12	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	75	-	-	6.3	0	1	71	14	13	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	83	-	-	7.2	1	1	67	13	18	--	NP	--	SM	2.68	-	-	-	
9.00	SPT	>100	-	-	6.4	0	1	69	13	17	--	NP	--	SM	2.64	-	-	-	
10.00	SPT	>100	-	-	5.6	8	2	64	10	16	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:23, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		23					
							<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	20	-	-	5.1	6	6	61	12	15	--	NP	--	SM	2.68	-	-	-	
2.00	SPT	8	-	-	4.9	0	1	51	35	13	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	22	-	-	5.3	1	1	65	11	23	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	30	-	-	6.8	4	0	76	7	13	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	50	-	-	4.7	12	11	39	21	17	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	15	-	-	5.3	5	37	32	5	21	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	11	-	-	5.5	2	47	33	3	15	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	68	-	-	6.7	15	18	33	13	21	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	>100	-	-	8.9	32	15	18	13	22	32	24	8	SC	2.63	-	-	-	
10.00	SPT	>100	-	-	5.6	42	13	23	9	13	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:20, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		20					
							<b>GROUND WATER TABLE:</b>			2.90 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	36	-	-	6.6	11	5	40	29	15	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	40	-	-	5.4	27	7	27	19	20	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	38	-	-	7.1	7	4	54	22	13	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	44	-	-	5.6	2	3	66	14	14	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	45	-	-	6.3	4	2	54	19	21	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	48	-	-	6.7	3	18	52	14	13	--	NP	--	SM	2.62	-	-	-	
7.00	SPT	55	-	-	4.9	15	6	49	12	18	--	NP	--	SM	2.67	-	-	-	
8.00	SPT	78	-	-	5.3	13	9	50	10	19	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	66	-	-	8.6	16	12	22	4	46	33	19	14	SC	2.60	-	-	-	
10.00	SPT	71	-	-	9.8	3	3	4	8	82	36	21	15	CI	2.55	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:18, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	18						
							<b>GROUND WATER TABLE:</b>			2.50 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	54	-	-	4.9	14	13	42	19	12	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	70	-	-	5.7	24	26	25	2	23	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	84	-	-	8.6	29	19	31	7	14	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	69	-	-	5.1	21	15	34	10	20	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	46	-	-	6.3	6	6	48	24	16	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	48	-	-	5.9	1	17	61	6	15	--	NP	--	SM	2.6	-	-	-	
7.00	SPT	72	-	-	4.7	15	23	34	8	19	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	88	-	-	6.4	7	15	58	3	17	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	>100	-	-	7.3	20	34	28	3	15	--	NP	--	SM	2.68	-	-	-	
10.00	SPT	>100	-	-	6.7	22	32	29	3	14	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:16, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	16							
						<b>GROUND WATER TABLE:</b>			2.70 mt.		<b>TABLE NO.:</b>	1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	47	-	-	5.6	12	19	40	11	18	--	NP	--	SM	2.65	-	-	-	
2.00	SPT	63	-	-	4.9	20	18	21	16	24	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	72	-	-	5.1	1	3	25	55	16	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	63	-	-	4.6	0	1	69	11	18	--	NP	--	SM	2.62	-	-	-	
5.00	SPT	46	-	-	5.2	1	3	73	9	14	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	44	-	-	7.2	10	6	10	58	16	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	48	-	-	6.4	1	12	64	4	19	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	64	-	-	4.7	21	25	25	15	14	--	NP	--	SM	2.60	-	-	-	
9.00	SPT	88	-	-	6.9	1	11	53	6	28	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	64	-	-	4.7	2	14	61	7	16	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:14, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		14						
						<b>GROUND WATER TABLE:</b>			3.40 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	32	-	-	6.3	0	1	24	57	19	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	24	-	-	7.5	0	1	29	54	16	--	NP	--	SM	2.61	-	-	-	
3.00	UDS	-	1.73	1.58	9.7	0	1	18	56	25	--	NP	--	SM	2.62	-	-	-	
4.00	SPT	49	-	-	5.4	0	0	20	52	29	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	63	-	-	6.4	0	0	30	45	25	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	63	-	-	4.8	15	24	41	6	14	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	68	-	-	8.4	13	26	43	6	12	--	NP	--	SM	2.68	-	-	-	
8.00	SPT	59	-	-	4.6	10	27	41	5	17	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	25	-	-	5.1	20	21	22	9	28	--	NP	--	SM	2.65	-	-	-	
10.00	SPT	33	-	-	4.6	10	45	6	2	37	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:12, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	12						
							<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	34	-	-	6.4	10	3	22	49	16	--	NP	--	SM	2.61	-	-	-	
2.00	SPT	37	-	-	5.3	17	11	43	17	12	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	41	-	-	5.9	30	12	14	15	29	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	44	-	-	5.2	1	3	48	30	19	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	48	-	-	6.4	0	7	54	15	23	--	NP	--	SM	2.65	-	-	-	
6.00	SPT	62	-	-	10.2	23	8	16	15	38	23	13	10	SC	2.63	-	-	-	
7.00	SPT	72	-	-	9.5	15	24	23	8	30	20	9	11	SC	2.61	-	-	-	
8.00	SPT	70	-	-	4.6	24	20	29	4	23	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	>100	-	-	5.6	20	22	25	5	29	--	NP	--	SM	2.67	-	-	-	
10.00	SPT	>100	-	-	4.9	41	20	12	5	22	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:10, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.		<b>Plot No.:</b>		10							
						<b>GROUND WATER TABLE:</b>		3.30 mt.		<b>TABLE NO.:</b>		1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	18	-	-	8.5	1	3	21	61	13	--	NP	--	SM	2.65	-	-	-	
2.00	SPT	22	-	-	4.9	6	8	29	42	15	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	42	-	-	6.8	1	0	14	63	22	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	43	-	-	7.5	6	3	22	53	16	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	45	-	-	8.4	0	0	50	37	13	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	49	-	-	7.6	0	0	50	29	21	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	82	-	-	7.1	4	2	40	36	18	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	>100	-	-	6.4	0	0	59	29	12	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	>100	-	-	6.8	27	11	33	16	13	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	>100	-	-	4.6	2	2	24	54	17	--	NP	--	SM	2.65	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:9, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	9						
							<b>GROUND WATER TABLE:</b>			3.60 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	31	-	-	4.6	0	0	68	19	13	--	NP	--	SM	2.66	-	-	-	
2.00	UDS	-	1.77	1.63	8.9	0	0	53	25	22	--	NP	--	SM	2.69	-	-	-	
3.00	SPT	36	-	-	4.9	1	5	61	15	18	--	NP	--	SM	2.62	-	-	-	
4.00	SPT	50	-	-	6.2	0	1	55	25	19	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	50	-	-	7.1	0	2	58	25	16	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	48	-	-	5.3	1	2	60	23	15	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	82	-	-	6.4	1	36	37	6	20	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	71	-	-	10.5	23	1	7	3	66	39	19	20	CI	2.57	-	-	-	
9.00	SPT	71	-	-	8.9	0	0	24	29	47	29	15	14	SC	2.60	-	-	-	
10.00	SPT	70	-	-	9.6	0	0	25	34	41	33	16	17	SC	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:8, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	8						
							<b>GROUND WATER TABLE:</b>			2.90 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	36	-	-	6.6	8	10	55	14	14	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	39	-	-	4.9	7	10	56	12	15	--	NP	--	SM	2.64	-	-	-	
3.00	SPT	40	-	-	4.3	10	10	54	11	15	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	41	-	-	5.7	3	6	55	14	22	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	41	-	-	4.9	8	6	46	13	27	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	45	-	-	7.7	4	6	52	15	23	--	NP	--	SM	2.65	-	-	-	
7.00	SPT	47	-	-	6.6	15	11	48	11	15	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	66	-	-	5.7	18	10	47	12	13	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	57	-	-	5.5	11	18	48	8	15	--	NP	--	SM	2.65	-	-	-	
10.00	SPT	59	-	-	4.7	12	16	48	8	16	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD. Tel : 079- 26762598,

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:7, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.		<b>Plot No.:</b>		7							
						<b>GROUND WATER TABLE:</b>		3.30 mt.		<b>TABLE NO.:</b>		1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	28	-	-	6.3	2	1	28	52	16	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	34	-	-	4.7	0	0	28	58	14	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	40	-	-	5.6	1	0	27	55	16	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	42	-	-	7.5	0	1	39	41	19	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	47	-	-	5.1	0	0	57	31	12	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	65	-	-	5.9	0	0	37	34	28	--	NP	--	SM	2.62	-	-	-	
7.00	SPT	72	-	-	6.3	0	0	51	35	14	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	77	-	-	6.6	0	0	47	34	19	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	>100	-	-	6.7	1	13	54	10	22	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	92	-	-	8.3	1	18	53	10	18	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:5, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.										<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.	<b>Plot No.:</b>		5		
												<b>GROUND WATER TABLE:</b>		3.20 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	16	-	-	7.6	2	1	20	55	22	--	NP	--	SM	2.59	-	-	-	
2.00	SPT	34	-	-	5.9	1	2	24	58	14	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	32	-	-	3.90	11	13	34	29	13	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	40	-	-	8.9	3	2	29	51	15	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	52	-	-	7.90	0	1	69	12	18	--	NP	--	SM	2.62	-	-	-	
6.00	SPT	44	-	-	5.9	0	1	61	12	26	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	40	-	-	4.6	0	0	64	23	13	--	NP	--	SM	2.67	-	-	-	
8.00	SPT	36	-	-	5.6	0	1	49	33	17	--	NP	--	SM	2.69	-	-	-	
9.00	SPT	54	-	-	4.9	0	1	54	29	16	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	56	-	-	7.6	11	34	29	1	25	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:4, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.		<b>Plot No.:</b>	4							
							<b>GROUND WATER TABLE:</b>		2.60 mt.		<b>TABLE NO.:</b>	1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	4.6	1	0	31	48	20	--	NP	--	SM	2.62	-	-	-	
2.00	SPT	40	-	-	5.6	24	6	25	28	17	--	NP	--	SM	2.64	-	-	-	
3.00	SPT	46	-	-	4.9	1	1	40	41	16	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	59	-	-	7.6	0	1	34	51	14	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	49	-	-	8.9	1	1	41	40	17	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	75	-	-	7.6	0	1	45	38	15	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	86	-	-	5.6	7	14	51	13	15	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	91	-	-	6.6	0	1	32	53	13	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	100	-	-	7.8	1	0	39	39	21	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	>100	-	-	6.4	1	0	47	39	13	--	NP	--	SM	2.62	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:3, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	3						
							<b>GROUND WATER TABLE:</b>			3.50 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	6.7	2	4	67	14	13	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	40	-	-	7.8	1	7	75	6	12	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	37	-	-	6.5	14	22	39	7	18	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	55	-	-	6.9	1	3	64	17	15	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	58	-	-	7.9	2	10	54	12	23	--	NP	--	SM	2.65	-	-	-	
6.00	SPT	62	-	-	5.6	16	15	38	17	14	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	48	-	-	4.9	2	4	61	21	12	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	50	-	-	5.7	25	22	35	5	13	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	63	-	-	13.6	7	2	4	3	84	42	15	27	CI	2.57	-	-	-	
10.00	SPT	57	-	-	12.4	0	1	5	2	92	49	14	35	CI	2.56	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:25, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		25					
							<b>GROUND WATER TABLE:</b>			2.40 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	38	-	-	4.6	0	0	54	23	23	--	NP	--	SM	2.62	-	-	-	
2.00	SPT	40	-	-	4.9	0	4	72	12	12	--	NP	--	SM	2.68	-	-	-	
3.00	SPT	48	-	-	5.7	12	19	35	18	16	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	55	-	-	6.2	6	11	38	31	14	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	46	-	-	6.8	1	2	43	34	19	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	86	-	-	7.4	7	9	47	23	14	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	82	-	-	7.6	0	1	48	36	15	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	71	-	-	7.4	1	2	40	30	26	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	71	-	-	8.3	0	3	54	24	19	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	82	-	-	7.1	13	20	11	29	27	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:27, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.									<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>		27		
											<b>GROUND WATER TABLE:</b>			3.00 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	37	-	-	4.6	5	9	45	28	13	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	41	-	-	5.1	7	9	37	28	19	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	63	-	-	6.3	0	0	38	43	18	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	53	-	-	4.8	1	1	50	36	12	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	57	-	-	7.3	1	1	42	36	20	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	46	-	-	6.4	0	0	44	41	15	--	NP	--	SM	2.65	-	-	-	
7.00	SPT	48	-	-	5.1	0	0	58	27	14	--	NP	--	SM	2.69	-	-	-	
8.00	SPT	65	-	-	6.2	0	0	57	25	18	--	NP	--	SM	2.68	-	-	-	
9.00	SPT	68	-	-	5.4	0	1	22	58	19	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	56	-	-	4.9	1	0	23	53	23	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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E mail : atc\_abad@yahoo.co.in

## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:30, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.		<b>Plot No.:</b>		30							
						<b>GROUND WATER TABLE:</b>		2.70 mt.		<b>TABLE NO.:</b>		1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	20	-	-	6.5	4	8	53	17	17	--	NP	--	SM	2.68	-	-	-	
2.00	SPT	29	-	-	4.6	1	0	29	54	16	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	30	-	-	5.2	1	1	49	37	12	--	NP	--	SM	2.65	-	-	-	
4.00	SPT	45	-	-	3.6	7	8	38	30	17	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	56	-	-	7.2	8	19	42	16	15	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	64	-	-	6.5	17	2	32	34	16	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	70	-	-	2.4	5	5	24	49	18	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	80	-	-	10.6	1	1	8	9	80	40	21	19	CI	2.64	-	-	-	
9.00	SPT	89	-	-	11.7	21	2	6	11	61	38	20	18	CI	2.65	-	-	-	
10.00	SPT	100	-	-	10.5	18	0	5	10	66	43	21	22	CI	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:33, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		33						
						<b>GROUND WATER TABLE:</b>			3.30 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	28	-	-	6.3	3	7	52	14	23	--	NP	--	SM	2.68	-	-	-	
2.00	UDS	-	1.8	1.66	8.2	0	1	69	18	12	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	41	-	-	5.1	1	6	67	14	13	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	50	-	-	5.5	0	1	66	18	15	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	44	-	-	5.9	0	1	57	25	17	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	60	-	-	6.3	1	2	58	23	16	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	72	-	-	6.1	0	1	55	22	22	--	NP	--	SM	2.64	-	-	-	
8.00	SPT	77	-	-	6.8	0	1	59	26	15	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	70	-	-	5.3	7	1	53	24	15	--	NP	--	SM	2.67	-	-	-	
10.00	SPT	92	-	-	7.6	0	1	62	21	16	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:36, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		36						
						<b>GROUND WATER TABLE:</b>			3.50 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	28	-	-	4.9	0	1	30	53	16	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	38	-	-	4.4	0	1	29	51	18	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	40	-	-	7.6	0	3	71	3	23	--	NP	--	SM	2.68	-	-	-	
4.00	SPT	48	-	-	5.8	0	1	78	7	14	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	56	-	-	4.9	0	1	79	8	13	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	71	-	-	6.2	0	0	72	11	16	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	84	-	-	5.6	0	0	62	14	24	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	95	-	-	5.3	0	0	65	15	20	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	25	-	-	6.7	0	0	2	2	96	51	26	25	CH	2.51	-	-	-	
10.00	SPT	29	-	-	4.8	3	4	3	1	89	55	25	30	CH	2.49	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:39, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	39						
							<b>GROUND WATER TABLE:</b>			3.70 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	32	-	-	5.6	4	5	66	6	20	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	44	-	-	4.6	3	7	67	6	16	--	NP	--	SM	2.64	-	-	-	
3.00	SPT	45	-	-	5.9	4	6	56	8	27	--	NP	--	SM	2.6	-	-	-	
4.00	SPT	59	-	-	7.6	1	4	68	10	17	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	49	-	-	5.4	3	12	63	3	19	--	NP	--	SM	2.68	-	-	-	
6.00	SPT	61	-	-	6.3	7	12	64	3	13	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	57	-	-	5.1	0	0	59	12	28	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	63	-	-	5.9	19	39	24	3	15	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	61	-	-	6.4	19	19	26	10	25	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	75	-	-	5.6	38	16	26	3	17	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:42, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	42						
							<b>GROUND WATER TABLE:</b>			3.40 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	31	-	-	6.3	3	6	54	18	19	--	NP	--	SM	-	-	-	-	
2.00	SPT	35	-	-	4.5	4	6	56	18	16	--	NP	--	SM	-	-	-	-	
3.00	SPT	34	-	-	5.6	20	28	34	3	15	--	NP	--	SM	-	-	-	-	
4.00	SPT	47	-	-	5.3	4	12	58	10	15	--	NP	--	SM	-	-	-	-	
5.00	SPT	54	-	-	5.6	0	7	68	7	17	--	NP	--	SM	-	-	-	-	
6.00	SPT	45	-	-	6.4	7	28	47	2	17	--	NP	--	SM	-	-	-	-	
7.00	SPT	53	-	-	4.7	1	13	60	3	23	--	NP	--	SM	-	-	-	-	
8.00	SPT	47	-	-	6.8	0	0	77	6	16	--	NP	--	SM	-	-	-	-	
9.00	SPT	53	-	-	6.7	0	2	53	20	25	--	NP	--	SM	-	-	-	-	
10.00	SPT	58	-	-	6.7	0	2	74	6	18	--	NP	--	SM	-	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:44, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		44						
						<b>GROUND WATER TABLE:</b>			3.10 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	10	-	-	5.5	0	3	68	14	15	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	18	-	-	5.9	7	4	43	30	17	--	NP	--	SM	2.67	-	-	-	
3.00	SPT	16	-	-	6.44	1	3	69	14	13	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	21	-	-	5.3	1	3	64	17	14	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	18	-	-	4.6	2	2	30	54	12	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	19	-	-	7.2	3	4	48	31	14	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	25	-	-	6.1	1	3	66	17	13	--	NP	--	SM	2.60	-	-	-	
8.00	SPT	19	-	-	5.6	0	4	67	12	17	--	NP	--	SM	2.68	-	-	-	
9.00	SPT	21	-	-	4.6	0	2	68	18	12	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	25	-	-	6.1	0	3	63	17	16	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:46, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	46						
							<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	20	-	-	4.6	11	8	35	28	18	--	NP	--	SM	2.61	-	-	-	
2.00	SPT	25	-	-	4.8	4	3	35	45	13	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	32	-	-	5.1	1	2	52	30	16	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	43	-	-	6.5	4	6	58	16	15	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	48	-	-	4.7	2	4	55	27	12	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	56	-	-	5.9	7	12	47	13	21	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	69	-	-	6.3	10	26	37	2	24	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	80	-	-	5.3	12	12	49	11	16	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	89	-	-	5.9	5	6	46	30	13	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	95	-	-	6.7	1	12	56	18	13	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:47, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		47						
						<b>GROUND WATER TABLE:</b>			2.70 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	26	-	-	6.3	0	0	61	25	13	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	36	-	-	4.6	1	0	53	27	19	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	46	-	-	5.8	0	0	46	38	16	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	49	-	-	7.3	0	2	73	13	12	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	50	-	-	5.9	0	1	73	13	13	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	90	-	-	6.4	0	4	72	9	15	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	82	-	-	8.6	0	2	77	4	17	--	NP	--	SM	2.67	-	-	-	
8.00	SPT	91	-	-	5.6	0	2	70	4	25	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	80	-	-	7.6	0	5	70	8	17	--	NP	--	SM	2.68	-	-	-	
10.00	SPT	99	-	-	4.9	0	0	78	5	16	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:51, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	51						
							<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	13	-	-	5.6	1	6	56	2	35	--	NP	--	SM	2.66	-	-	-	
2.00	UDS	-	1.73	1.59	9.1	2	12	71	3	12	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	26	-	-	4.5	0	3	53	16	27	--	NP	--	SM	2.68	-	-	-	
4.00	SPT	36	-	-	7.1	16	17	39	11	17	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	42	-	-	5.3	5	9	45	22	18	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	49	-	-	4.8	0	1	52	29	18	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	56	-	-	5.3	10	10	46	16	19	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	63	-	-	6.7	0	0	53	23	23	--	NP	--	SM	2.69	-	-	-	
9.00	SPT	74	-	-	8.5	11	9	46	18	16	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	84	-	-	6.9	4	3	39	41	14	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:54, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	54						
							<b>GROUND WATER TABLE:</b>			2.50 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	31	-	-	6.4	4	8	37	36	15	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	39	-	-	7.5	8	9	38	29	16	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	43	-	-	6.9	11	7	37	30	14	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	45	-	-	5.6	9	8	31	35	18	--	NP	--	SM	2.68	-	-	-	
5.00	SPT	48	-	-	4.8	11	11	33	32	12	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	64	-	-	9.2	14	8	29	33	15	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	86	-	-	5.6	12	8	36	33	12	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	100	-	-	7.4	12	8	30	32	18	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	100	-	-	5.6	9	7	30	38	16	--	NP	--	SM	2.65	-	-	-	
10.00	SPT	92	-	-	4.6	10	7	37	28	19	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:87, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	87						
							<b>GROUND WATER TABLE:</b>			3.30 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	13	-	-	6.5	9	8	36	31	17	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	16	-	-	5.6	10	8	37	30	15	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	27	-	-	6.7	5	3	47	29	16	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	40	-	-	5.6	11	8	34	28	19	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	46	-	-	8.6	7	5	44	25	19	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	54	-	-	7.5	3	4	41	37	16	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	60	-	-	6.9	5	5	42	36	12	--	NP	--	SM	2.60	-	-	-	
8.00	SPT	65	-	-	5.8	2	6	29	38	25	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	76	-	-	6.6	4	5	40	37	13	--	NP	--	SM	2.64	-	-	-	
10.00	SPT	93	-	-	8.6	6	5	40	35	14	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:88, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	88						
							<b>GROUND WATER TABLE:</b>			2.40 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	41	-	-	4.6	2	5	59	18	16	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	38	-	-	5.6	0	0	64	11	25	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	56	-	-	7.9	0	1	70	15	14	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	46	-	-	5.6	0	0	55	17	28	--	NP	--	SM	2.62	-	-	-	
5.00	SPT	48	-	-	8.2	0	2	75	7	16	--	NP	--	SM	2.65	-	-	-	
6.00	SPT	79	-	-	5.6	0	2	65	12	21	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	57	-	-	9.6	0	1	8	1	90	48	21	27	CI	2.59	-	-	-	
8.00	SPT	61	-	-	10.6	21	3	7	2	67	45	20	25	CI	2.55	-	-	-	
9.00	SPT	81	-	-	3.7	0	0	64	11	25	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	77	-	-	5.6	0	1	78	8	13	--	NP	--	SM	2.68	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:91, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	91						
							<b>GROUND WATER TABLE:</b>			2.80 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	22	-	-	4.6	0	0	26	55	18	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	36	-	-	3.8	3	4	32	37	24	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	44	-	-	5.6	0	6	73	7	14	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	36	-	-	7.4	0	1	62	21	17	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	43	-	-	6.5	0	4	69	10	17	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	52	-	-	4.6	4	5	65	6	20	--	NP	--	SM	2.65	-	-	-	
7.00	SPT	48	-	-	5.1	0	1	64	19	16	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	53	-	-	6.2	0	1	55	24	20	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	59	-	-	5.6	8	18	57	3	15	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	62	-	-	7.2	8	23	48	1	20	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:93, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>	93							
							<b>GROUND WATER TABLE:</b>			3.10 mt.	<b>TABLE NO.:</b>	1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	29	-	-	5.6	31	20	19	4	26	--	NP	--	SM	2.63	-	-	-	
2.00	UDS	-	1.79	1.65	8.8	46	19	19	4	12	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	29	-	-	5.9	2	1	25	56	16	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	44	-	-	5.6	3	1	13	70	13	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	34	-	-	6.4	0	1	20	59	20	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	47	-	-	8.6	24	28	24	8	16	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	31	-	-	5.3	2	6	40	39	13	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	46	-	-	4.9	2	5	37	43	12	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	43	-	-	6.4	2	6	37	39	16	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	63	-	-	6.8	8	16	30	34	12	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:96, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>	96							
							<b>GROUND WATER TABLE:</b>			2.70 mt.	<b>TABLE NO.:</b>	1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	6.3	0	1	38	48	13	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	31	-	-	5.6	1	1	42	28	29	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	43	-	-	5.6	1	1	45	28	26	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	38	-	-	4.8	0	1	51	36	13	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	39	-	-	7.6	0	1	46	40	13	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	35	-	-	5.6	0	1	45	35	18	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	31	-	-	4.9	0	5	66	14	14	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	46	-	-	5.6	0	1	59	14	26	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	59	-	-	7.6	12	37	32	1	17	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	58	-	-	6.3	16	37	31	1	16	--	NP	--	SM	2.65	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:98, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		98						
						<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	6.3	0	0	39	39	21	--	NP	--	SM	2.66	-	-	-	
2.00	UDS	-	1.80	1.65	9.1	0	0	37	46	17	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	35	-	-	6.7	0	1	33	50	16	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	49	-	-	5.9	1	0	33	49	17	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	43	-	-	6.7	0	2	61	19	18	--	NP	--	SM	2.60	-	-	-	
6.00	SPT	50	-	-	6.4	0	2	57	19	22	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	56	-	-	5.9	0	1	68	5	26	--	NP	--	SM	2.67	-	-	-	
8.00	SPT	62	-	-	8.7	0	1	71	4	24	--	NP	--	SM	2.63	-	-	-	
9.00	SPT	67	-	-	5.9	10	32	43	1	14	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	60	-	-	6.7	11	30	44	2	13	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:100, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	100						
							<b>GROUND WATER TABLE:</b>			2.50 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS kg/cm <sup>2</sup>	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	14	-	-	6.5	53	15	10	3	20	--	NP	--	GM	2.63	-	-	-	
2.00	SPT	20	-	-	4.6	23	16	28	15	19	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	26	-	-	8.5	3	3	24	53	17	--	NP	--	SM	2.60	-	-	-	
4.00	SPT	19	-	-	7.6	5	2	25	57	12	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	23	-	-	5.3	6	3	13	64	14	--	NP	--	SM	2.68	-	-	-	
6.00	SPT	25	-	-	4.6	4	3	27	45	22	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	34	-	-	5.1	2	1	18	64	14	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	14	-	-	6.9	1	1	7	67	23	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	19	-	-	8.6	3	1	17	43	36	--	NP	--	SM	2.64	-	-	-	
10.00	SPT	22	-	-	4.9	1	0	12	68	18	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-2, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		V-2					
							<b>GROUND WATER TABLE:</b>			2.80 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	36	-	-	6.8	1	1	8	75	15	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	31	-	-	5.4	4	4	23	55	15	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	39	-	-	7.6	0	1	22	59	19	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	30	-	-	5.9	1	1	24	57	17	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	39	-	-	6.3	9	5	39	33	14	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	37	-	-	5.4	1	3	55	26	15	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	51	-	-	7.6	2	3	56	22	17	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	67	-	-	6.2	3	8	52	20	16	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	64	-	-	6.8	3	11	56	16	14	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	56	-	-	6.2	0	2	61	23	14	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-3, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		V-3					
							<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	34	-	-	6.3	1	2	23	56	18	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	31	-	-	4.7	1	1	8	75	15	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	36	-	-	5.6	1	1	23	60	15	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	43	-	-	8.2	0	1	21	62	16	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	48	-	-	6.4	5	5	43	33	14	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	36	-	-	5.1	4	3	55	21	17	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	47	-	-	6.7	2	3	58	22	15	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	58	-	-	5.9	3	7	52	22	16	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	57	-	-	4.8	2	6	61	19	12	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	53	-	-	6.7	0	3	60	20	16	--	NP	--	SM	2.60	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-4, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		V-4						
						<b>GROUND WATER TABLE:</b>			3.50 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	25	-	-	5.9	0	2	49	34	15	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	35	-	-	7.6	0	1	51	28	20	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	39	-	-	7.4	0	1	51	27	21	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	44	-	-	6.8	2	9	51	26	12	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	47	-	-	8.4	3	9	49	25	14	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	72	-	-	6.7	2	5	57	20	16	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	80	-	-	7.1	8	5	40	32	15	--	NP	--	SM	2.64	-	-	-	
8.00	SPT	88	-	-	5.6	5	6	41	33	14	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	80	-	-	6.7	6	5	37	40	12	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	>100	-	-	6.6	8	7	42	27	17	--	NP	--	SM	2.59	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:V-5, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.									<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>		V-5		
											<b>GROUND WATER TABLE:</b>			3.30 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	28	-	-	5.6	5	2	18	59	16	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	35	-	-	7.8	4	1	18	62	15	--	NP	--	SM	2.61	-	-	-	
3.00	UDS	-	1.85	1.70	8.8	2	1	16	65	16	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	38	-	-	8.4	3	1	12	68	16	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	42	-	-	7.5	2	2	17	67	13	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	56	-	-	6.4	4	1	18	61	16	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	80	-	-	5.7	0	0	9	74	16	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	85	-	-	6.4	3	1	25	51	20	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	93	-	-	7.8	0	0	10	75	14	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	83	-	-	4.9	2	1	32	43	22	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.  
3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:106, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		106						
						<b>GROUND WATER TABLE:</b>			3.70 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	28	-	-	6.5	24	17	21	27	12	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	30	-	-	4.5	29	15	18	26	12	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	36	-	-	7.8	24	14	16	21	25	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	42	-	-	6.8	2	3	35	45	16	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	48	-	-	5.6	1	2	26	59	12	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	64	-	-	7.6	3	3	35	44	15	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	62	-	-	4.9	0	1	43	42	14	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	91	-	-	5.7	0	0	31	53	16	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	85	-	-	6.4	0	0	28	53	20	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	81	-	-	5.6	0	0	34	49	17	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:108, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	108						
							<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	40	-	-	6.5	23	12	13	23	28	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	46	-	-	4.6	23	12	19	22	23	--	NP	--	SM	2.67	-	-	-	
3.00	SPT	65	-	-	7.6	25	16	12	17	31	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	46	-	-	5.3	6	3	21	46	23	--	NP	--	SM	2.6	-	-	-	
5.00	SPT	69	-	-	4.6	0	0	34	41	25	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	91	-	-	6.5	0	11	29	42	18	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	75	-	-	4.6	0	4	29	51	16	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	72	-	-	7.1	1	15	24	46	14	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	81	-	-	6.5	0	4	25	58	13	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	85	-	-	5.3	0	4	27	49	19	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:113, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	113						
							<b>GROUND WATER TABLE:</b>			3.30 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	19	-	-	5.6	5	9	40	32	13	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	19	-	-	4.7	7	9	38	33	13	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	15	-	-	5.6	0	0	49	33	17	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	20	-	-	6.5	1	1	51	33	15	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	20	-	-	6.3	1	1	42	39	16	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	21	-	-	8.5	0	0	50	37	12	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	24	-	-	7.6	0	0	48	33	18	--	NP	--	SM	2.69	-	-	-	
8.00	SPT	24	-	-	5.6	0	0	47	36	17	--	NP	--	SM	2.60	-	-	-	
9.00	SPT	28	-	-	8.6	0	1	22	62	16	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	24	-	-	7.9	1	0	23	61	15	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:117, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		117						
						<b>GROUND WATER TABLE:</b>			3.10 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	15	-	-	4.6	8	11	35	20	27	--	NP	--	SM	2.66	-	-	-	
2.00	SPT	26	-	-	5.6	16	20	24	24	16	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	35	-	-	5.6	7	12	37	27	17	--	NP	--	SM	2.60	-	-	-	
4.00	SPT	43	-	-	7.6	5	13	37	26	20	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	54	-	-	7.9	3	11	39	28	18	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	50	-	-	6.7	8	11	36	27	18	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	63	-	-	8.5	7	9	39	32	13	--	NP	--	SM	2.60	-	-	-	
8.00	SPT	76	-	-	6.7	4	9	40	35	12	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	81	-	-	5.6	4	8	38	35	15	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	92	-	-	5.5	3	7	36	36	18	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:120, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		120						
						<b>GROUND WATER TABLE:</b>			2.60 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	40	-	-	6.3	0	0	36	49	15	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	33	-	-	5.4	0	0	45	41	13	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	61	-	-	7.1	0	1	79	8	12	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	36	-	-	5.6	1	3	55	28	13	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	60	-	-	8.5	0	0	53	28	18	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	47	-	-	4.9	0	1	55	22	22	--	NP	--	SM	2.67	-	-	-	
7.00	SPT	53	-	-	6.7	14	36	33	1	16	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	55	-	-	7.3	0	1	76	9	14	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	60	-	-	6.4	0	3	52	30	15	--	NP	--	SM	2.60	-	-	-	
10.00	SPT	63	-	-	5.6	17	37	33	1	12	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:122, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	122						
							<b>GROUND WATER TABLE:</b>			2.90 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	27	-	-	4.6	15	21	44	5	16	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	30	-	-	7.5	18	20	38	8	15	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	39	-	-	6.3	20	20	39	7	14	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	44	-	-	5.4	20	22	38	6	15	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	40	-	-	5.6	1	3	56	26	13	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	44	-	-	8.5	19	20	38	7	15	--	NP	--	SM	2.69	-	-	-	
7.00	SPT	60	-	-	6.4	0	0	42	43	14	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	65	-	-	4.9	0	1	48	36	15	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	55	-	-	5.8	0	2	51	32	15	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	56	-	-	6.1	0	3	53	31	13	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:125, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>		10.00 mt.		<b>Plot No.:</b>		125							
						<b>GROUND WATER TABLE:</b>		2.50 mt.		<b>TABLE NO.:</b>		1							
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	20	-	-	5.3	9	7	37	32	14	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	20	-	-	6.1	1	1	47	35	16	--	NP	--	SM	2.64	-	-	-	
3.00	SPT	16	-	-	7.2	1	1	37	33	28	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	20	-	-	8.6	1	3	66	16	15	--	NP	--	SM	2.60	-	-	-	
5.00	SPT	14	-	-	4.9	0	3	68	14	14	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	23	-	-	5.1	1	4	74	9	12	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	24	-	-	6.3	0	3	70	14	13	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	23	-	-	5.4	10	17	38	20	15	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	20	-	-	5.8	4	1	14	64	17	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	25	-	-	6.7	1	3	71	12	13	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:130, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		130						
						<b>GROUND WATER TABLE:</b>			2.70 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	34	-	-	6.8	19	17	44	7	13	--	NP	--	SM	2.66	-	-	-	
2.00	UDS	-	1.76	1.61	9.1	0	0	46	36	18	--	NP	--	SM	2.64	-	-	-	
3.00	SPT	40	-	-	6.4	1	9	60	15	15	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	48	-	-	7.5	0	6	61	18	15	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	46	-	-	6.8	0	7	61	17	15	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	89	-	-	4.9	1	2	51	27	18	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	87	-	-	5.6	0	7	62	19	12	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	76	-	-	6.5	0	8	56	17	18	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	>100	-	-	6.7	0	7	63	17	13	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	91	-	-	8.6	1	10	57	16	16	--	NP	--	SM	2.6	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:135, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	135						
							<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	5.6	3	1	43	39	14	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	38	-	-	4.8	2	2	27	57	12	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	35	-	-	6.7	4	1	34	49	12	--	NP	--	SM	2.60	-	-	-	
4.00	SPT	44	-	-	5.9	2	7	52	25	14	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	48	-	-	6.3	1	1	21	61	17	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	60	-	-	4.6	6	2	37	43	13	--	NP	--	SM	2.68	-	-	-	
7.00	SPT	56	-	-	8.5	1	1	38	45	14	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	71	-	-	7.1	1	6	44	36	13	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	77	-	-	5.6	0	4	47	33	16	--	NP	--	SM	2.68	-	-	-	
10.00	SPT	77	-	-	4.5	1	5	37	45	12	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:140, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		140						
						<b>GROUND WATER TABLE:</b>			3.30 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	19	-	-	4.7	7	13	40	26	14	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	33	-	-	5.8	3	10	43	29	15	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	41	-	-	6.1	2	9	44	32	13	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	38	-	-	8.3	4	11	41	29	15	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	44	-	-	5.4	7	19	53	7	15	--	NP	--	SM	2.61	-	-	-	
6.00	SPT	55	-	-	7.6	6	13	40	26	15	--	NP	--	SM	2.66	-	-	-	
7.00	SPT	60	-	-	5.1	7	12	37	27	17	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	69	-	-	5.8	1	6	49	30	14	--	NP	--	SM	2.68	-	-	-	
9.00	SPT	74	-	-	6.3	5	5	46	27	18	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	89	-	-	6.7	9	11	40	27	13	--	NP	--	SM	2.60	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:141-M, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.						<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		141-M				
								<b>GROUND WATER TABLE:</b>			2.70 mt.		<b>TABLE NO.:</b>		1				
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	27	-	-	6.7	11	5	32	36	15	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	32	-	-	4.9	72	2	4	9	13	--	NP	--	GM	2.67	-	-	-	
3.00	SPT	40	-	-	7.3	39	5	11	16	29	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	46	-	-	4.7	0	4	56	24	16	--	NP	--	SM	2.61	-	-	-	
5.00	SPT	48	-	-	5.6	0	2	64	19	14	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	61	-	-	4.9	0	2	63	20	15	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	64	-	-	7.6	0	0	55	27	18	--	NP	--	SM	2.65	-	-	-	
8.00	SPT	54	-	-	6.7	0	0	51	35	14	--	NP	--	SM	2.66	-	-	-	
9.00	SPT	51	-	-	4.9	1	5	60	18	16	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	83	-	-	8.1	2	30	46	7	16	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:144, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		144						
						<b>GROUND WATER TABLE:</b>			2.40 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	40	-	-	6.4	22	19	27	20	13	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	47	-	-	5.7	30	23	24	7	15	--	NP	--	SM	2.60	-	-	-	
3.00	SPT	48	-	-	6.8	26	22	24	12	17	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	44	-	-	5.9	19	18	37	11	15	--	NP	--	SM	2.60	-	-	-	
5.00	SPT	47	-	-	8.7	21	7	33	21	18	--	NP	--	SM	2.67	-	-	-	
6.00	SPT	59	-	-	9.5	17	12	38	17	16	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	67	-	-	8.7	16	12	45	13	14	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	65	-	-	4.6	19	14	42	12	13	--	NP	--	SM	2.65	-	-	-	
9.00	SPT	63	-	-	8.9	21	15	43	9	12	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	67	-	-	6.8	18	14	41	13	14	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:148, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	148						
							<b>GROUND WATER TABLE:</b>			2.90 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	40	-	-	7.6	1	3	53	31	12	--	NP	--	SM	2.63	-	-	-	
2.00	UDS	-	1.81	1.65	9.6	0	0	44	38	18	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	42	-	-	4.6	0	0	47	36	16	--	NP	--	SM	2.67	-	-	-	
4.00	SPT	44	-	-	5.8	20	22	40	5	13	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	40	-	-	7.9	1	4	57	24	13	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	62	-	-	8.6	28	25	26	3	18	--	NP	--	SM	2.6	-	-	-	
7.00	SPT	53	-	-	5.6	1	4	60	24	12	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	63	-	-	7.8	28	14	30	12	16	--	NP	--	SM	2.61	-	-	-	
9.00	SPT	67	-	-	4.9	34	15	26	12	13	--	NP	--	SM	2.66	-	-	-	
10.00	SPT	64	-	-	5.6	24	18	32	10	16	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:151, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.						<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		151				
								<b>GROUND WATER TABLE:</b>			2.60 mt.		<b>TABLE NO.:</b>		1				
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	43	-	-	6.3	32	21	24	7	16	--	NP	--	SM	2.63	-	-	-	
2.00	UDS	-	1.86	1.69	10.1	0	0	44	38	18	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	35	-	-	7.8	0	8	58	21	13	--	NP	--	SM	2.66	-	-	-	
4.00	SPT	51	-	-	4.9	1	5	61	17	16	--	NP	--	SM	2.63	-	-	-	
5.00	SPT	47	-	-	9.5	1	13	55	17	15	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	61	-	-	9.6	0	12	59	16	14	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	81	-	-	7.8	0	8	58	20	14	--	NP	--	SM	2.61	-	-	-	
8.00	SPT	57	-	-	4.8	1	2	45	40	12	--	NP	--	SM	2.60	-	-	-	
9.00	SPT	57	-	-	6.4	1	7	54	19	19	--	NP	--	SM	2.67	-	-	-	
10.00	SPT	69	-	-	5.6	17	19	44	6	15	--	NP	--	SM	2.66	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.  
3 As SM group of soil were found in UDS sample ,technically it is not feasible to conduct laboratory consolidation test and Unconfined compressive strength test.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:153-M, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		153-M						
						<b>GROUND WATER TABLE:</b>			3.20 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	19	-	-	7.8	5	3	30	39	23	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	25	-	-	10.6	1	1	24	50	24	--	NP	--	SM	2.61	-	-	-	
3.00	SPT	32	-	-	11.5	0	0	42	40	18	--	NP	--	SM	2.57	-	-	-	
4.00	SPT	38	-	-	7.8	13	9	40	21	17	--	NP	--	SM	2.55	-	-	-	
5.00	SPT	45	-	-	5.6	28	24	33	3	12	--	NP	--	SM	2.66	-	-	-	
6.00	SPT	64	-	-	11.6	5	6	48	27	14	--	NP	--	SM	2.55	-	-	-	
7.00	SPT	72	-	-	10.3	2	0	38	45	15	--	NP	--	SM	2.63	-	-	-	
8.00	SPT	>100	-	-	7.6	4	1	32	47	16	--	NP	--	SM	2.67	-	-	-	
9.00	SPT	>100	-	-	12.6	6	8	50	23	14	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	>100	-	-	10.5	12	10	44	21	14	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:155-156, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			7.00 mt.		<b>Plot No.:</b>		155-156					
							<b>GROUND WATER TABLE:</b>			2.80 mt.		<b>TABLE NO.:</b>		1					
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	29	-	-	7.5	31	12	29	15	12	--	NP	--	SM	2.60	-	-	-	
2.00	SPT	46	-	-	6.5	37	11	19	17	16	--	NP	--	SM	2.63	-	-	-	
3.00	SPT	85	-	-	4.8	12	4	40	29	15	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	87	-	-	9.2	12	6	34	34	14	--	NP	--	SM	2.66	-	-	-	
5.00	SPT	>100	-	-	10.4	9	7	35	28	21	--	NP	--	SM	2.64	-	-	-	
6.00	SPT	>100	-	-	5.7	14	7	42	21	16	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	82	-	-	6.7	48	16	14	6	16	--	NP	--	SM	2.61	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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<b>ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD</b>																			
<b>LOCATION:</b> At Plot No.:160, Alang/Sosiya, Gujarat.																			
<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.									<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.	<b>Plot No.:</b>		160		
											<b>GROUND WATER TABLE:</b>			3.40 mt.	<b>TABLE NO.:</b>		1		
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	52	-	-	5.5	30	6	24	19	21	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	33	-	-	8.9	0	1	50	34	15	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	46	-	-	8.1	1	4	55	25	15	--	NP	--	SM	2.61	-	-	-	
4.00	SPT	42	-	-	7.9	10	5	48	23	14	--	NP	--	SM	2.67	-	-	-	
5.00	SPT	38	-	-	6.9	15	21	44	6	14	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	57	-	-	7.6	12	12	32	28	16	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	65	-	-	8.9	12	15	27	29	17	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	51	-	-	12.4	6	3	27	41	23	--	NP	--	SM	2.62	-	-	-	
9.00	SPT	54	-	-	8.2	1	21	25	41	12	--	NP	--	SM	2.64	-	-	-	
10.00	SPT	52	-	-	5.9	2	8	44	25	22	--	NP	--	SM	2.67	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.  
2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:163, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		163						
						<b>GROUND WATER TABLE:</b>			3.10 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	5.6	3	3	40	38	16	--	NP	--	SM	2.63	-	-	-	
2.00	SPT	37	-	-	4.7	4	7	45	30	14	--	NP	--	SM	2.66	-	-	-	
3.00	SPT	35	-	-	7.6	7	13	61	6	13	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	15	-	-	7.8	18	12	39	15	16	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	14	-	-	8.1	17	9	41	15	17	--	NP	--	SM	2.6	-	-	-	
6.00	SPT	17	-	-	5.9	8	40	33	4	15	--	NP	--	SM	2.63	-	-	-	
7.00	SPT	38	-	-	6.7	2	5	46	25	22	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	32	-	-	5.8	3	3	2	1	91	60	38	22	CH	2.53	-	-	-	
9.00	SPT	44	-	-	7.6	0	0	4	3	93	59	38	21	CH	2.54	-	-	-	
10.00	SPT	65	-	-	7.8	0	0	1	0	99	59	35	24	CH	2.49	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-6, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		V-6						
						<b>GROUND WATER TABLE:</b>			2.60 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	36	-	-	6.7	15	14	15	12	44	--	NP	--	SM	2.61	-	-	-	
2.00	SPT	28	-	-	8.2	0	0	49	36	15	--	NP	--	SM	2.60	-	-	-	
3.00	SPT	34	-	-	5.6	5	3	47	29	16	--	NP	--	SM	2.63	-	-	-	
4.00	SPT	39	-	-	7.8	8	9	55	13	15	--	NP	--	SM	2.60	-	-	-	
5.00	SPT	29	-	-	9.1	7	5	50	25	13	--	NP	--	SM	2.63	-	-	-	
6.00	SPT	27	-	-	4.8	3	8	55	13	21	--	NP	--	SM	2.64	-	-	-	
7.00	SPT	35	-	-	7.9	6	7	61	13	13	--	NP	--	SM	2.66	-	-	-	
8.00	SPT	37	-	-	5.9	5	13	45	18	19	--	NP	--	SM	2.64	-	-	-	
9.00	SPT	24	-	-	5.6	17	9	36	17	21	--	NP	--	SM	2.63	-	-	-	
10.00	SPT	22	-	-	8.0	5	7	73	2	13	--	NP	--	SM	2.64	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-8, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.				<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>		V-8						
						<b>GROUND WATER TABLE:</b>			3.50 mt.		<b>TABLE NO.:</b>		1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	34	-	-	4.6	1	1	26	55	17	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	28	-	-	5.3	2	3	51	29	15	--	NP	--	SM	2.59	-	-	-	
3.00	SPT	35	-	-	7.8	7	10	39	29	16	--	NP	--	SM	2.56	-	-	-	
4.00	SPT	58	-	-	4.9	1	0	16	65	18	--	NP	--	SM	2.64	-	-	-	
5.00	SPT	33	-	-	5.6	0	1	57	29	13	--	NP	--	SM	2.52	-	-	-	
6.00	SPT	10	-	-	3.4	5	3	35	42	15	--	NP	--	SM	2.62	-	-	-	
7.00	SPT	34	-	-	5.6	3	4	51	28	14	--	NP	--	SM	2.59	-	-	-	
8.00	SPT	41	-	-	7.8	2	4	56	19	19	--	NP	--	SM	2.50	-	-	-	
9.00	SPT	27	-	-	9.1	14	3	33	31	19	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	38	-	-	2.9	26	5	20	20	29	--	NP	--	SM	2.60	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD. Tel : 079- 26762598,

E mail : atc\_abad@yahoo.co.in

## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-9, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	V-9						
							<b>GROUND WATER TABLE:</b>			3.30 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	30	-	-	4.6	1	1	3	70	25	--	NP	--	SM	2.65	-	-	-	
2.00	SPT	29	-	-	7.8	4	1	10	63	22	--	NP	--	SM	2.62	-	-	-	
3.00	SPT	38	-	-	5.6	38	6	11	33	12	--	NP	--	SM	2.6	-	-	-	
4.00	SPT	38	-	-	3.4	0	0	7	71	22	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	39	-	-	6.8	2	5	45	31	16	--	NP	--	SM	2.59	-	-	-	
6.00	SPT	46	-	-	7.5	2	1	32	51	14	--	NP	--	SM	2.61	-	-	-	
7.00	SPT	72	-	-	4.9	6	1	3	73	17	--	NP	--	SM	2.64	-	-	-	
8.00	SPT	72	-	-	6.5	44	4	14	20	18	--	NP	--	SM	2.58	-	-	-	
9.00	SPT	>100	-	-	6.6	2	0	32	55	11	--	NP	--	SM	2.61	-	-	-	
10.00	SPT	>100	-	-	6.1	0	0	30	50	19	--	NP	--	SM	2.63	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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E mail : atc\_abad@yahoo.co.in

## ANANDJIWALA TECHNICAL CONSULTANCY, AHMEDABAD

**LOCATION:** At Plot No.:V-10, Alang/Sosiya, Gujarat.

<b>PROJECT :</b>		Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.					<b>TERMINATION DEPTH(mt.):</b>			10.00 mt.		<b>Plot No.:</b>	V-10						
							<b>GROUND WATER TABLE:</b>			3.00 mt.		<b>TABLE NO.:</b>	1						
DEPTH BELOW G.L. (mt.)	TYPE OF SAMPLE	OBSERVED SPT-N VALUE	INSITU BULK UNIT WT. (gm/cm <sup>3</sup> )	INSITU DRY UNIT WT. (gm/cm <sup>3</sup> )	INSITU WATER CONTENT (%)	SIEVE ANALYSIS					ATTERBERG LIMITS			I.S. CLASSIFICATION	SPECIFIC GRAVITY	CONSOLIDATION		UCS (kg/cm <sup>2</sup> )	
						GRAVEL (%)	SAND (%)			SILT (%)	CLAY (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)			PLASTICITY INDEX, IP	COMP. INDEX, C <sub>c</sub>		IN. VOID RATIO e <sub>o</sub>
							COARSE	MED.	FINE										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.00	SPT	13	-	-	6.4	2	1	22	58	17	--	NP	--	SM	2.64	-	-	-	
2.00	SPT	13	-	-	5.3	3	1	17	65	14	--	NP	--	SM	2.65	-	-	-	
3.00	SPT	17	-	-	6.1	0	0	23	62	15	--	NP	--	SM	2.64	-	-	-	
4.00	SPT	19	-	-	5.8	0	0	17	67	15	--	NP	--	SM	2.65	-	-	-	
5.00	SPT	43	-	-	4.9	2	2	37	37	22	--	NP	--	SM	2.62	-	-	-	
6.00	SPT	50	-	-	6.3	40	6	7	35	12	--	NP	--	SM	2.60	-	-	-	
7.00	SPT	46	-	-	8.9	1	2	13	41	43	27	18	9	SC	2.61	-	-	-	
8.00	SPT	27	-	-	11.3	14	4	6	8	68	77	41	36	CH	2.57	-	-	-	
9.00	SPT	73	-	-	5.9	20	6	15	43	16	--	NP	--	SM	2.62	-	-	-	
10.00	SPT	>100	-	-	6.1	3	1	39	42	15	--	NP	--	SM	2.60	-	-	-	

Note. 1 Water level may not be accurate due to low and high tide of sea.

2 Actual water contents of the disturbed soil sample will be differ than the mention one.

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E mail : atc\_abad@yahoo.co.in

**ANNEXURE- 4**  
**GRAINSIZE GRAPHS**

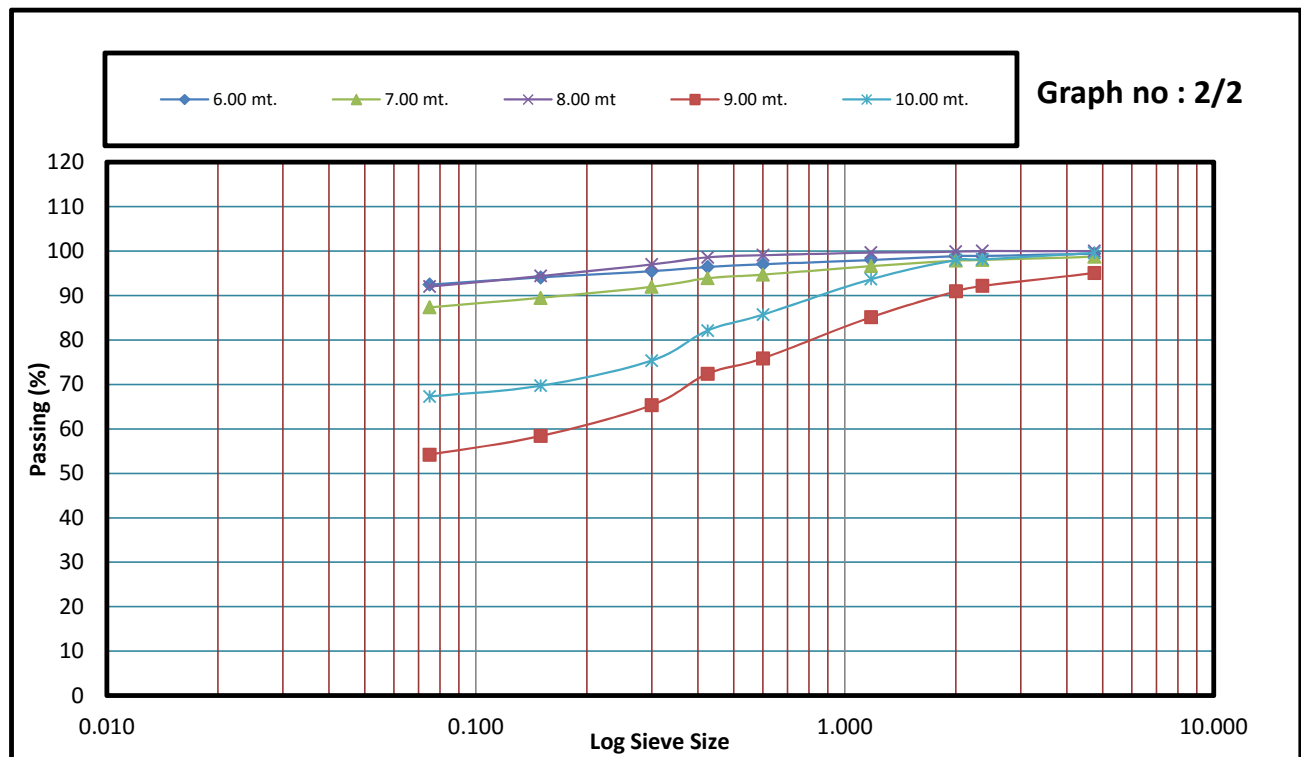
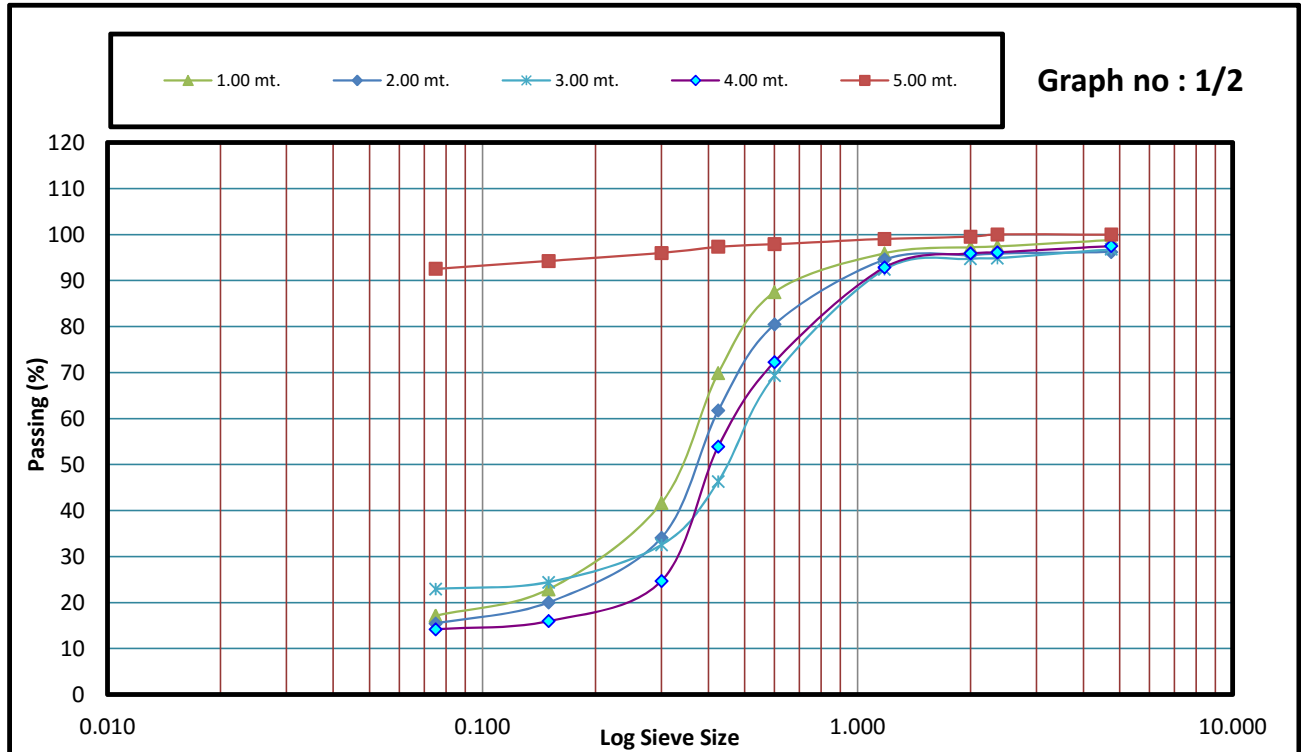
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:84-F, Alang/Sosiya, Gujarat.

**Plot No.:** 84-F



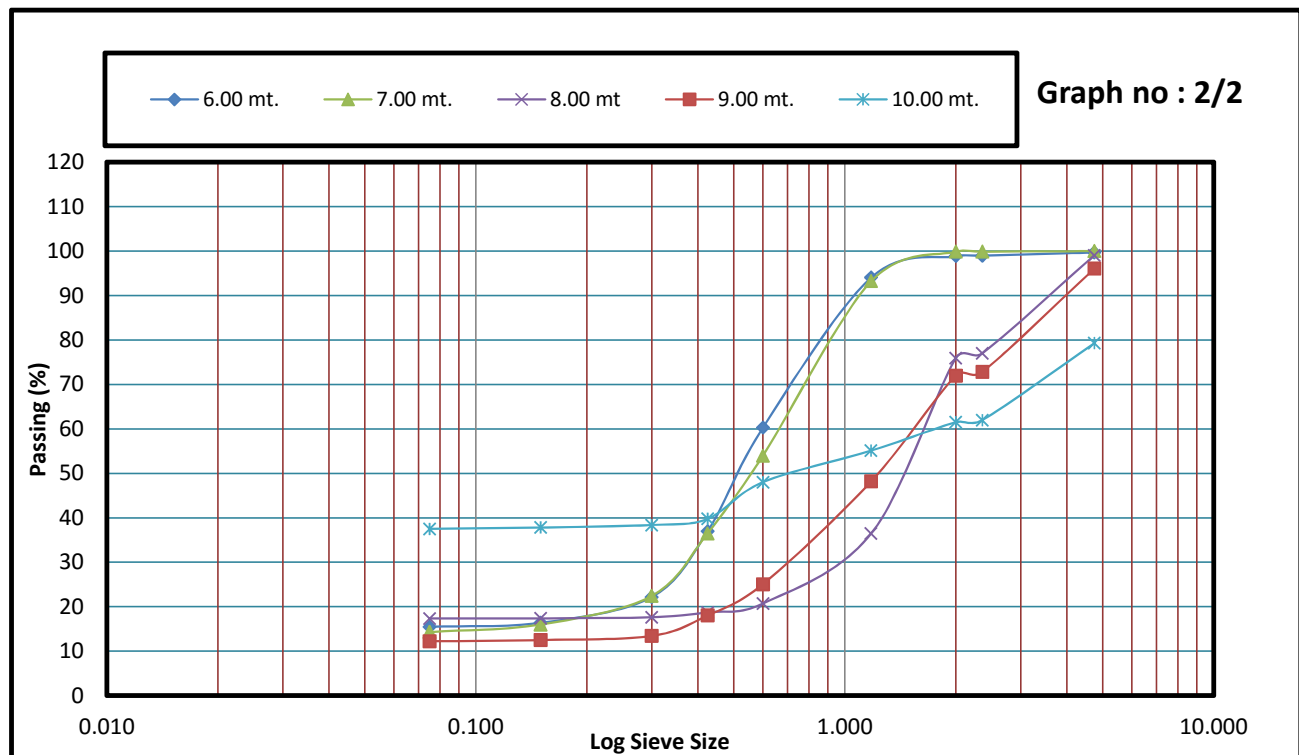
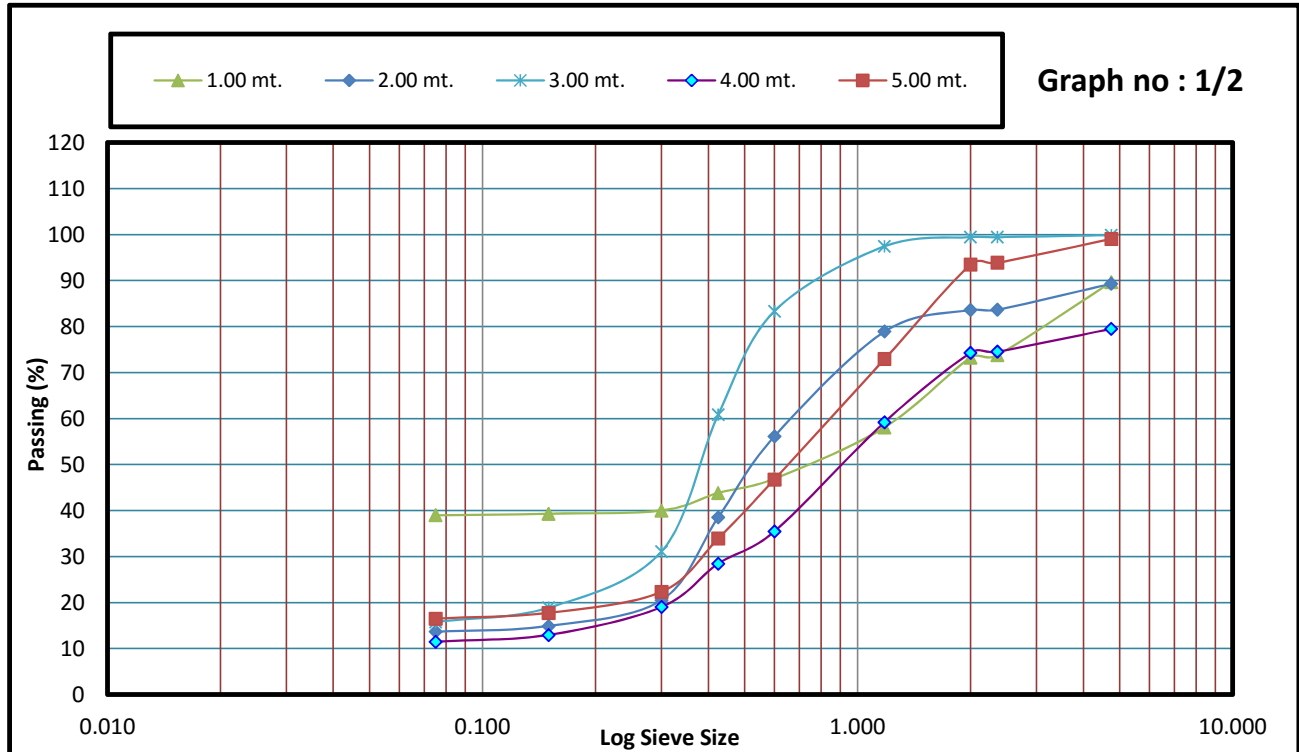
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:72, Alang/Sosiya, Gujarat.

**Plot No.:** 72



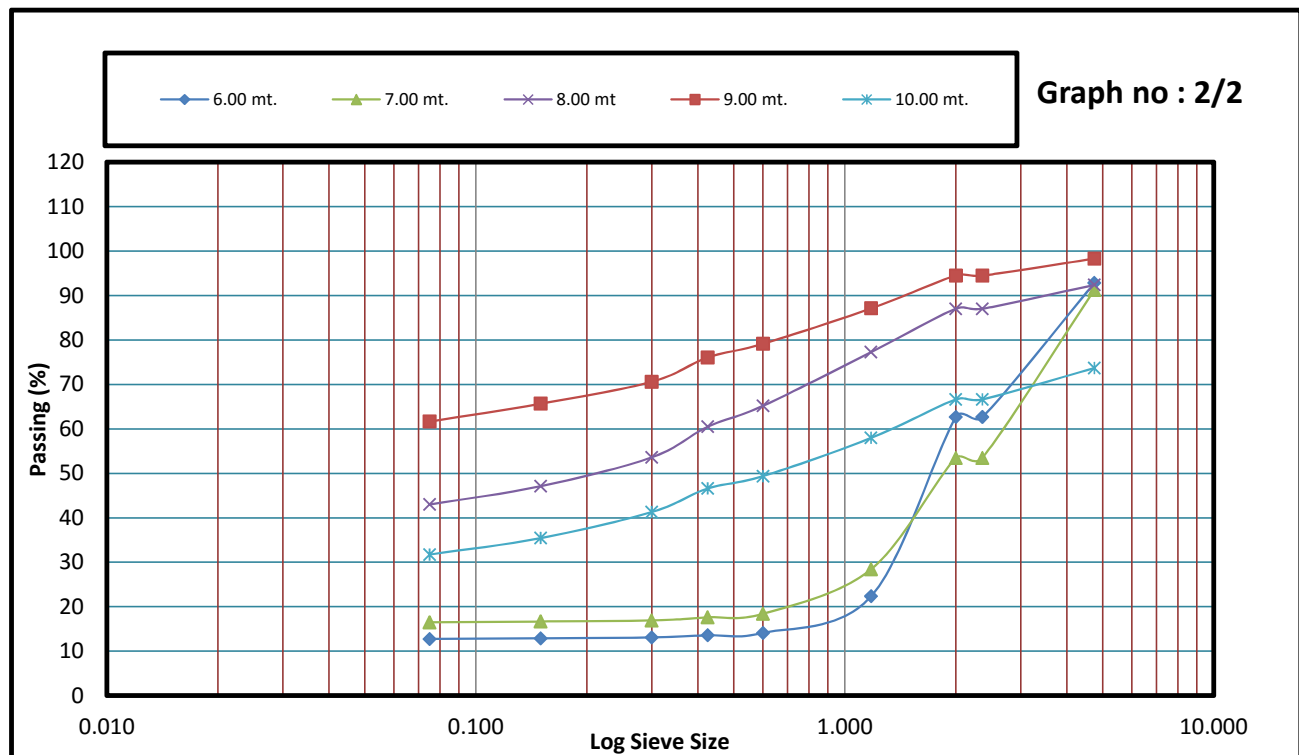
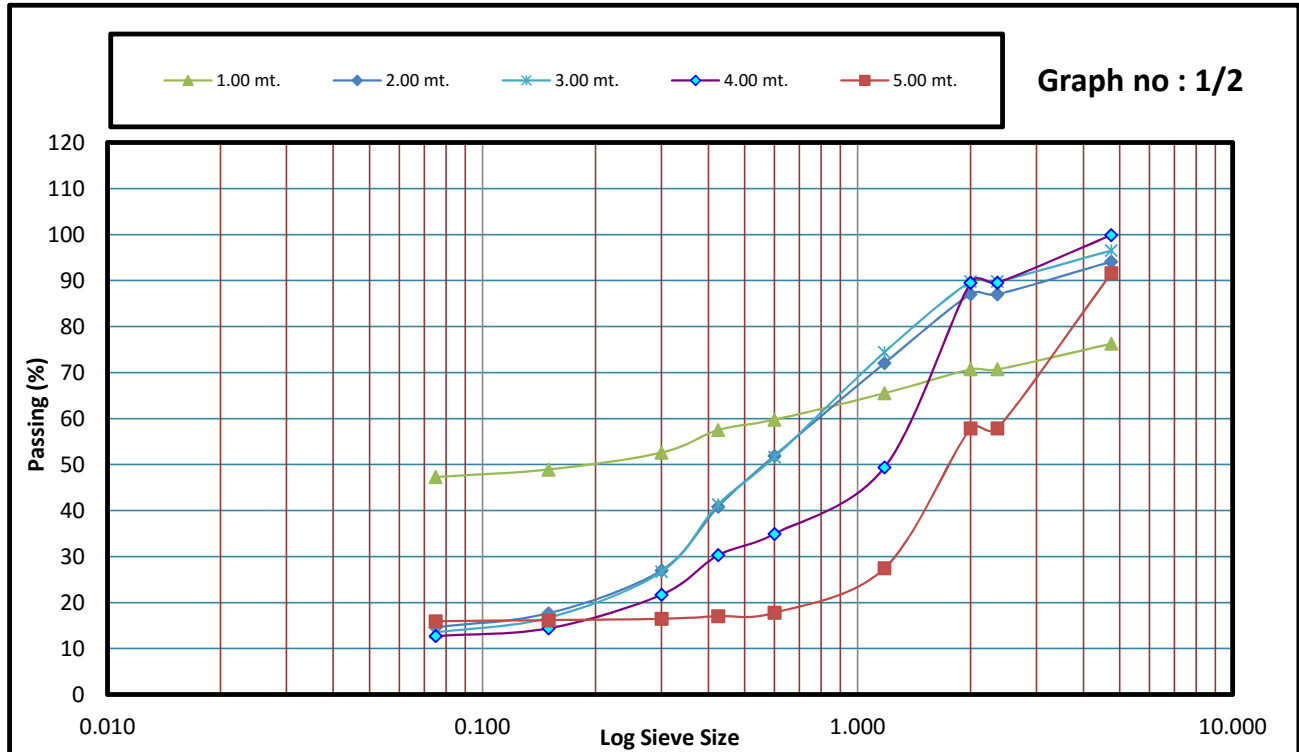
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:82, Alang/Sosiya, Gujarat.

**Plot No.:** 82





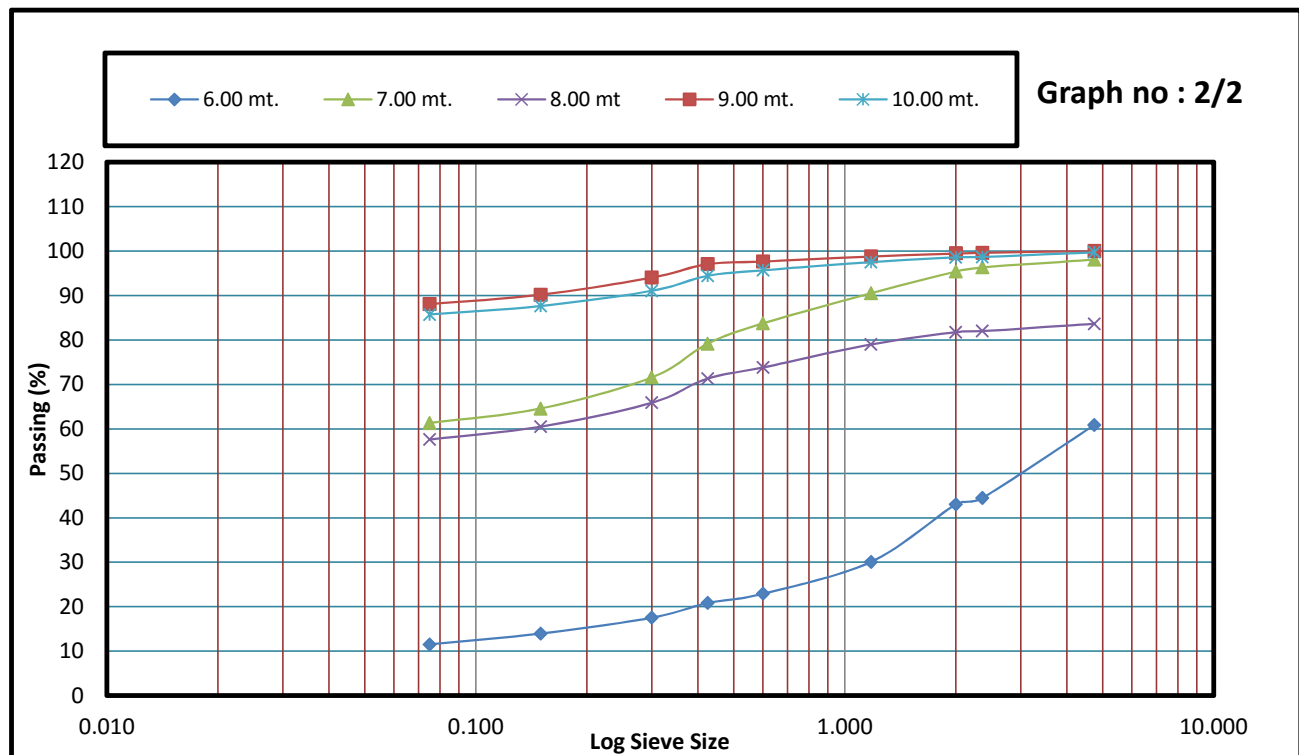
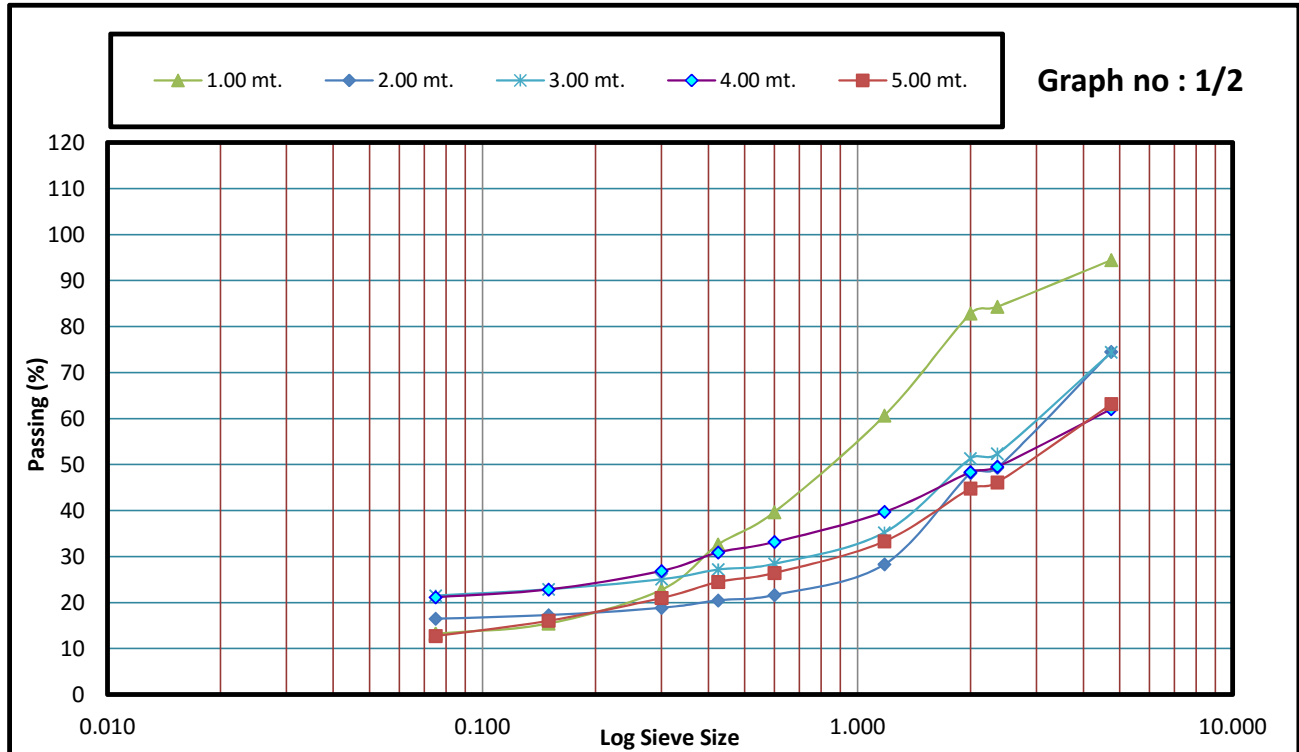
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:77, Alang/Sosiya, Gujarat.

**Plot No.:** 77



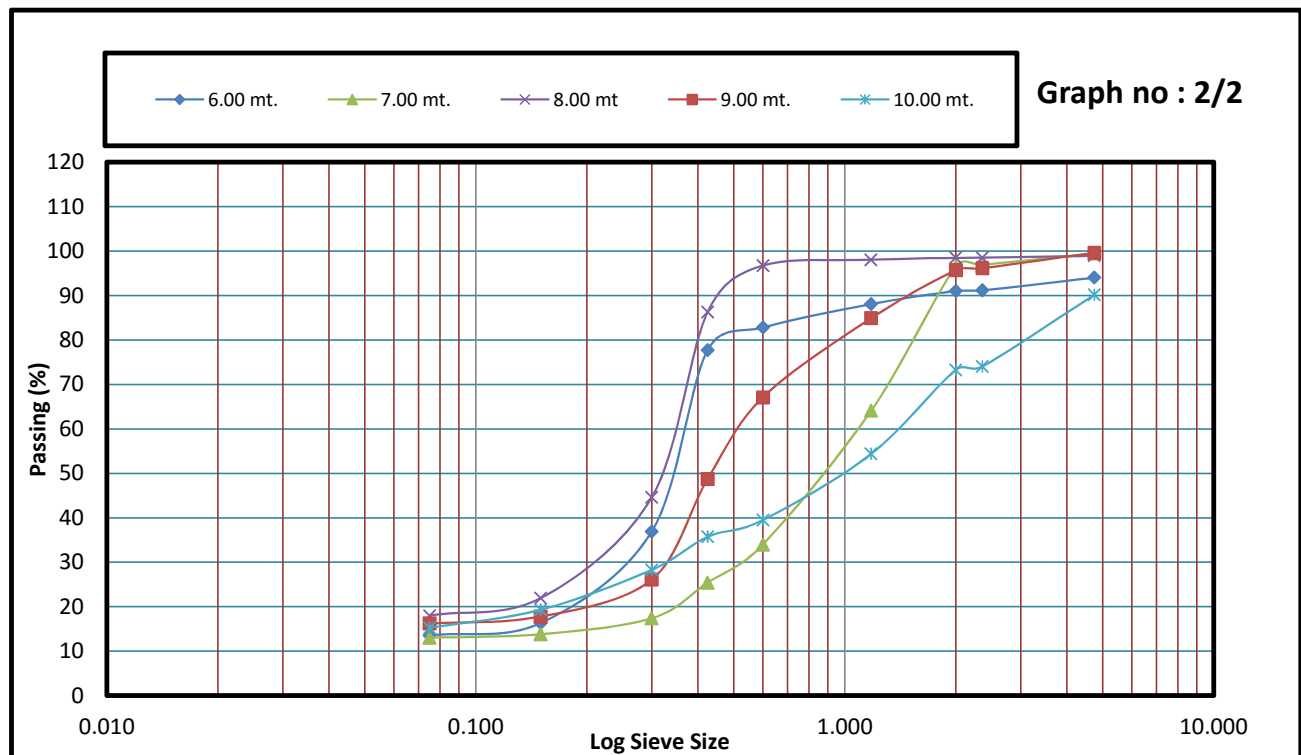
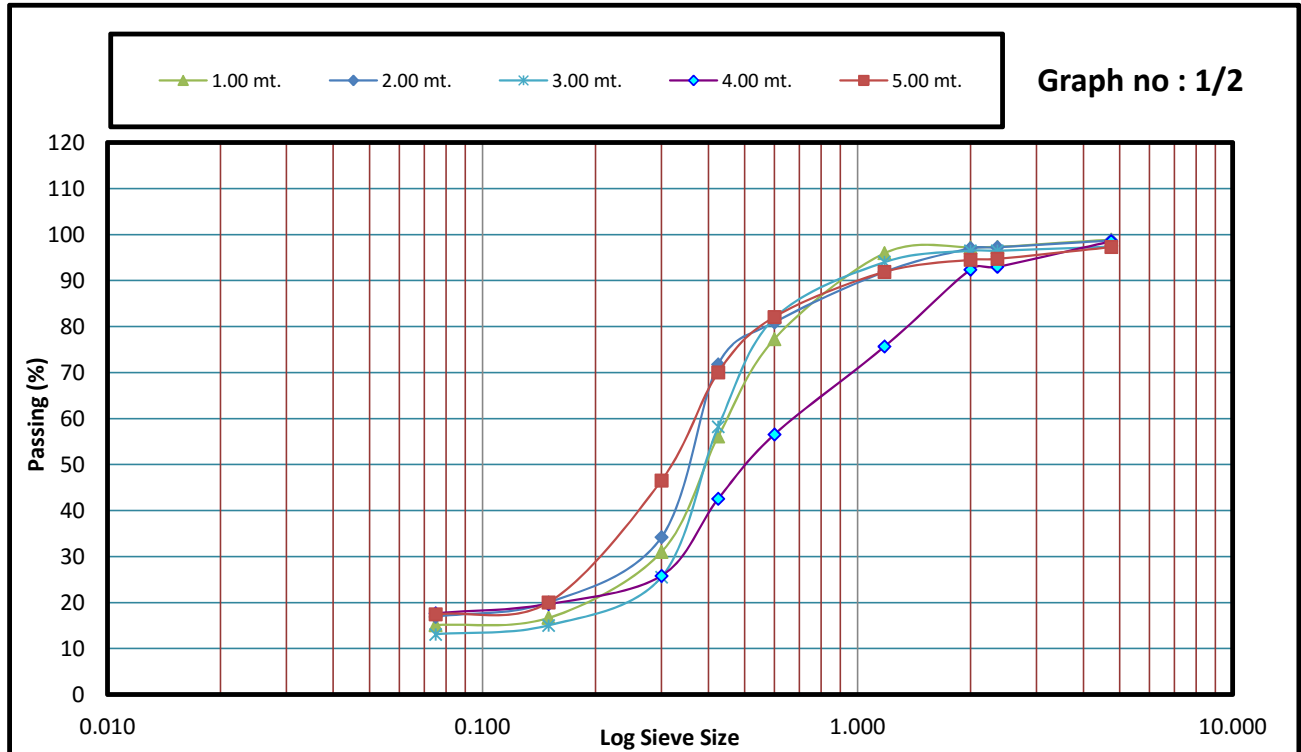
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:73, Alang/Sosiya, Gujarat.

**Plot No.:** 73



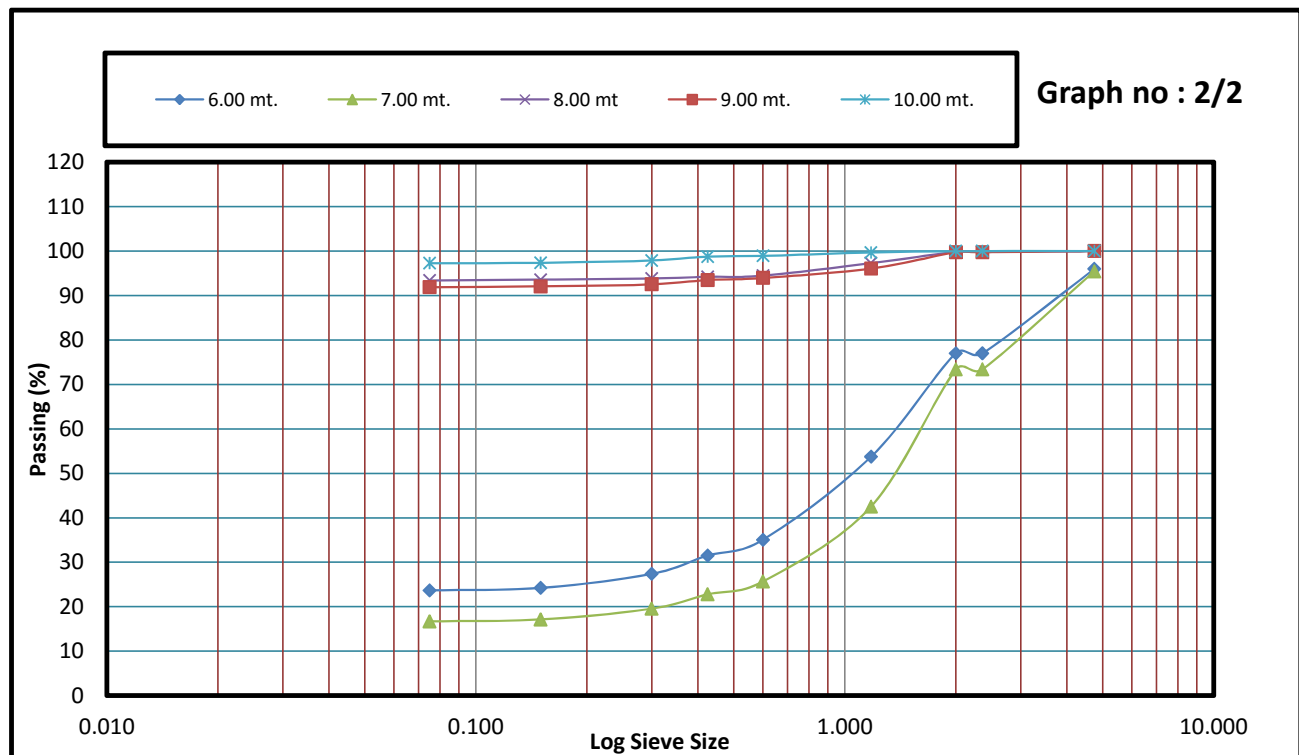
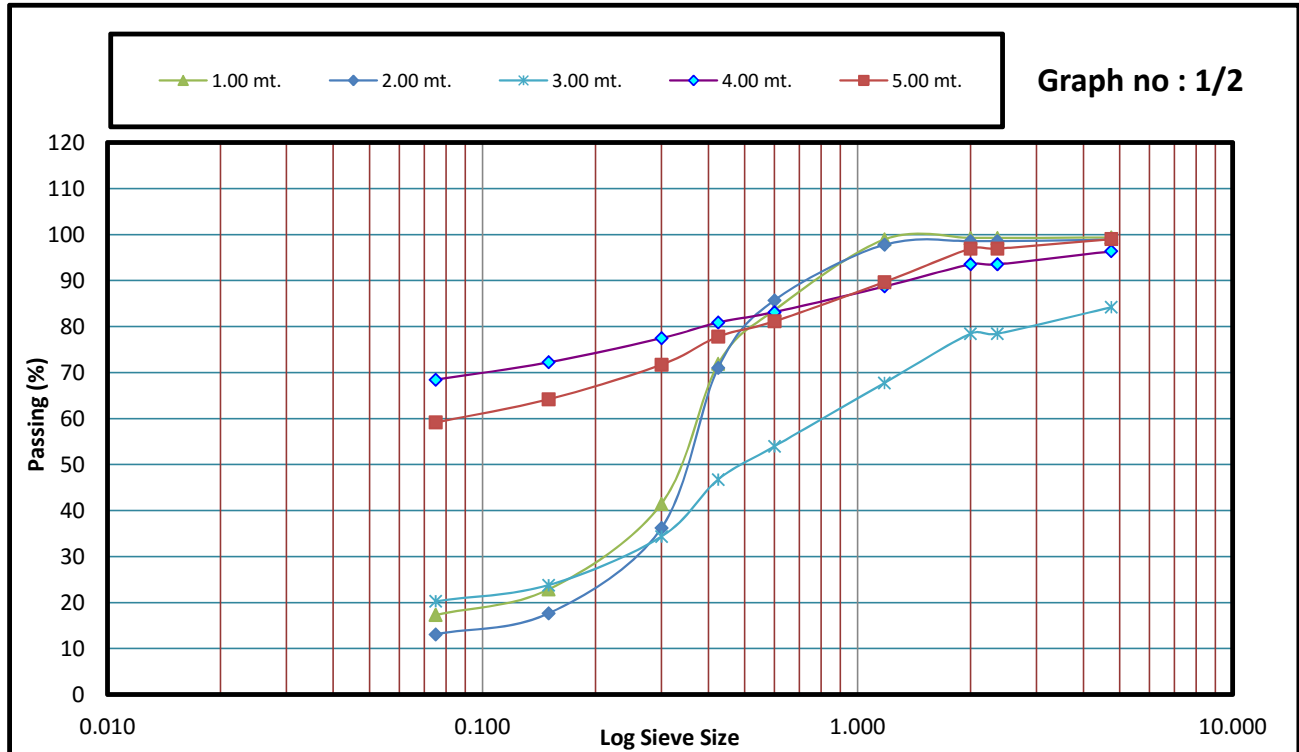
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:68, Alang/Sosiya, Gujarat.

**Plot No.:** 68



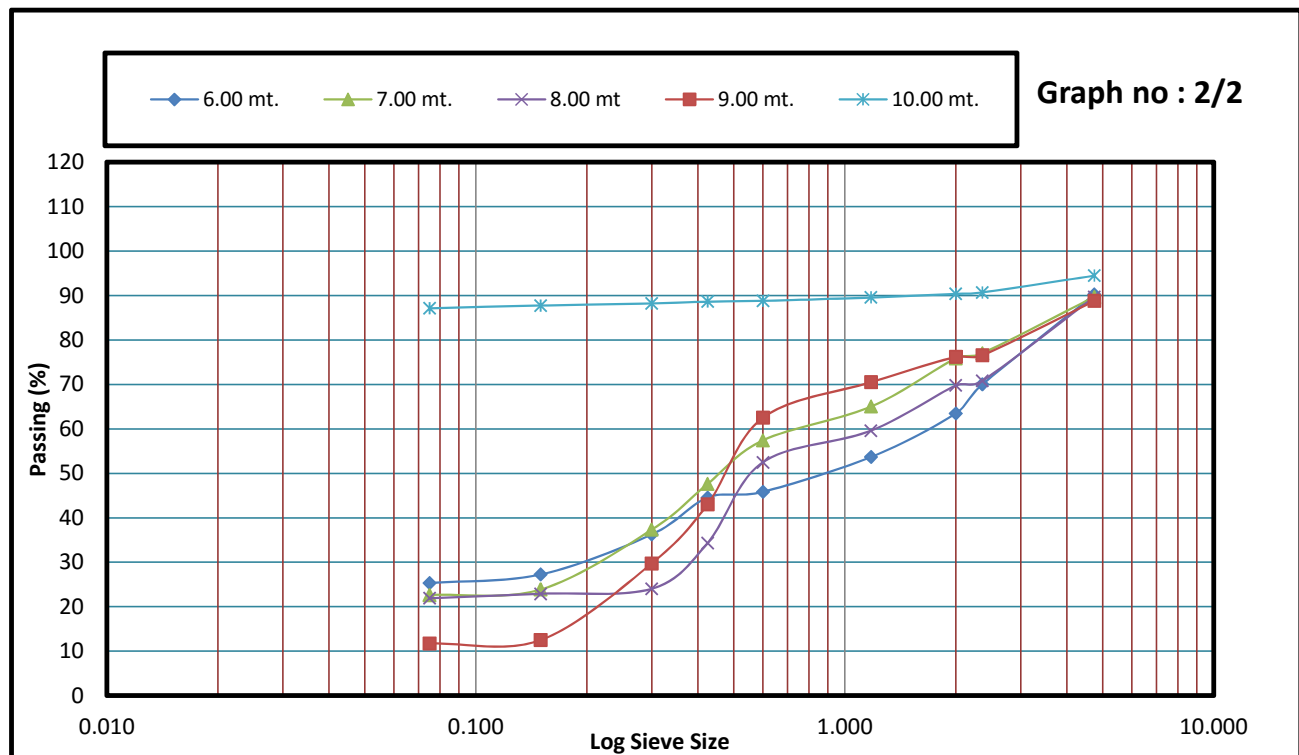
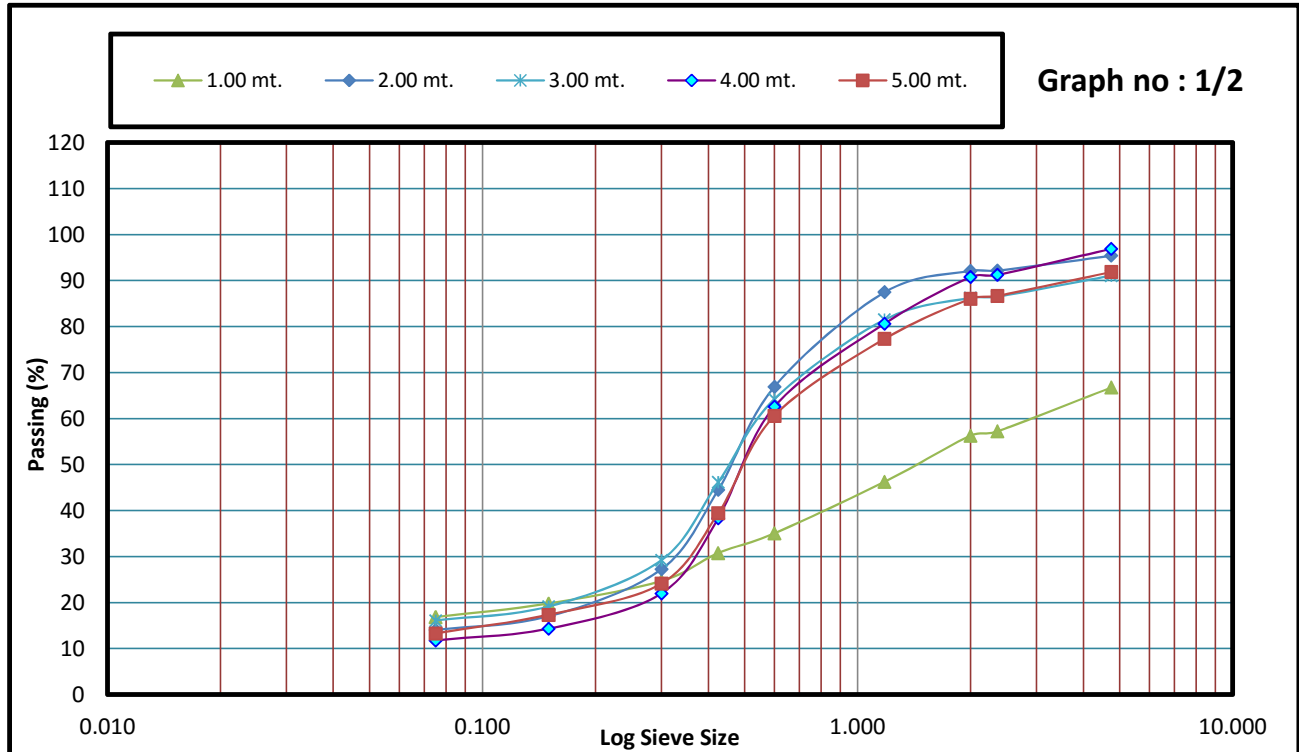
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:66, Alang/Sosiya, Gujarat.

**Plot No.:** 66



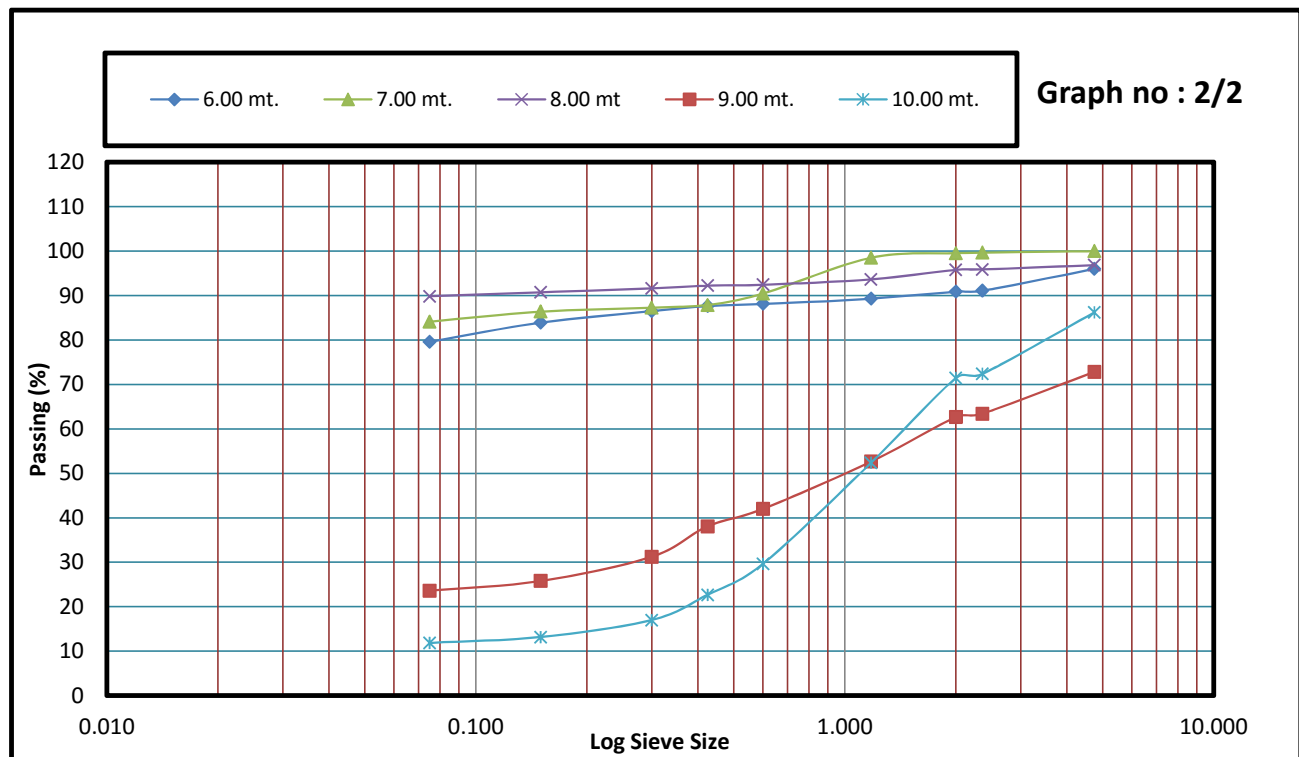
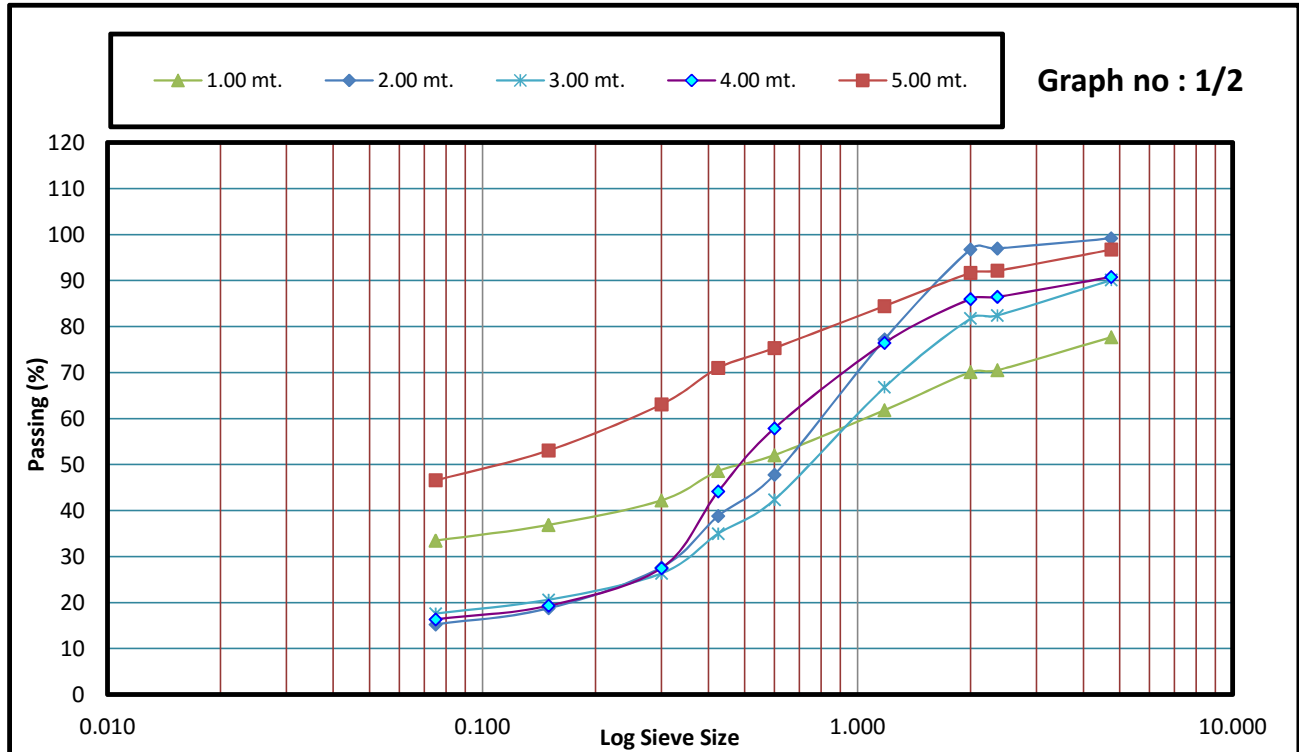
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:64, Alang/Sosiya, Gujarat.

**Plot No.:** 64



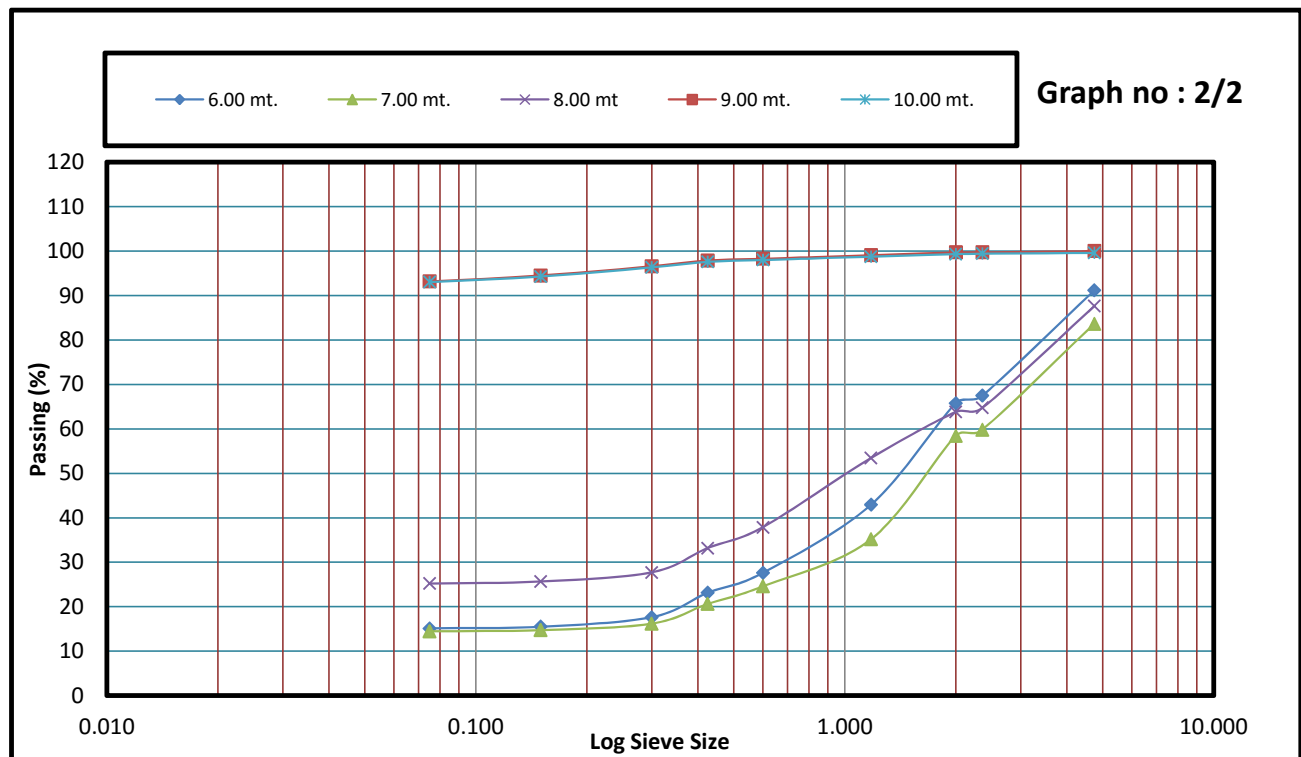
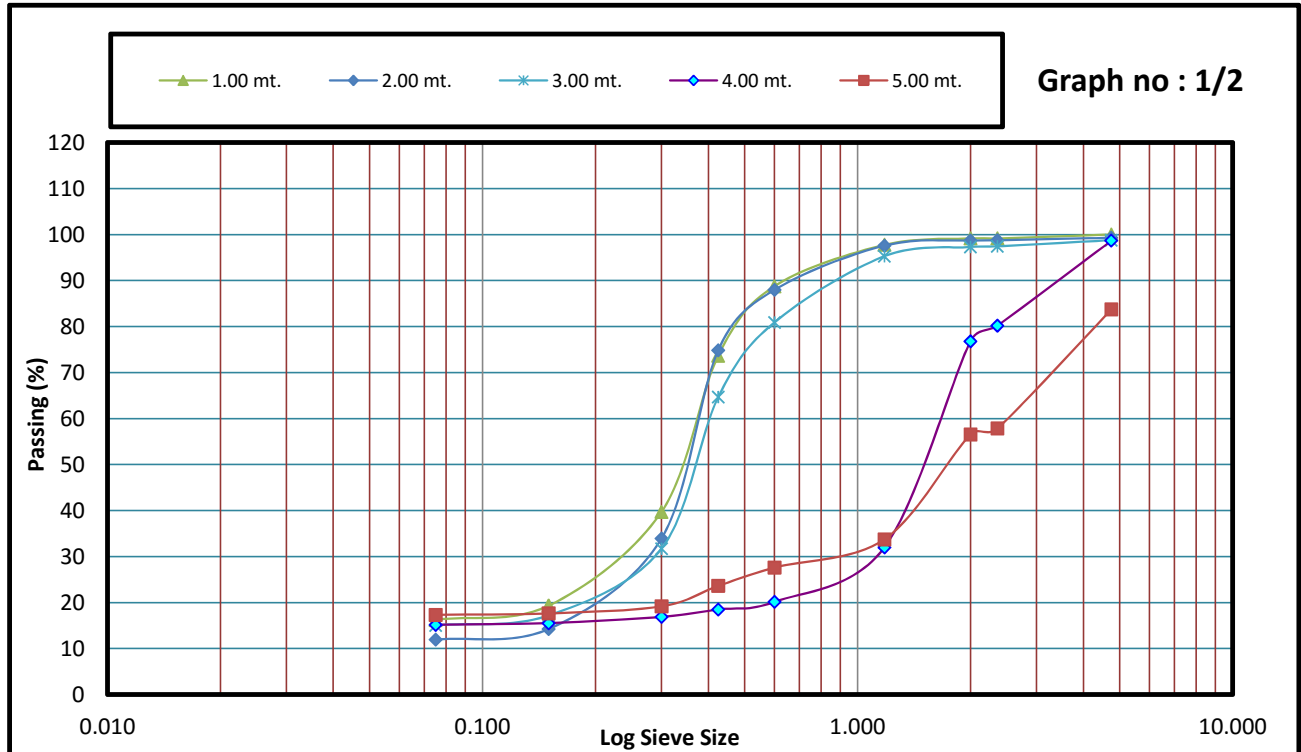
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:62, Alang/Sosiya, Gujarat.

**Plot No.:** 62



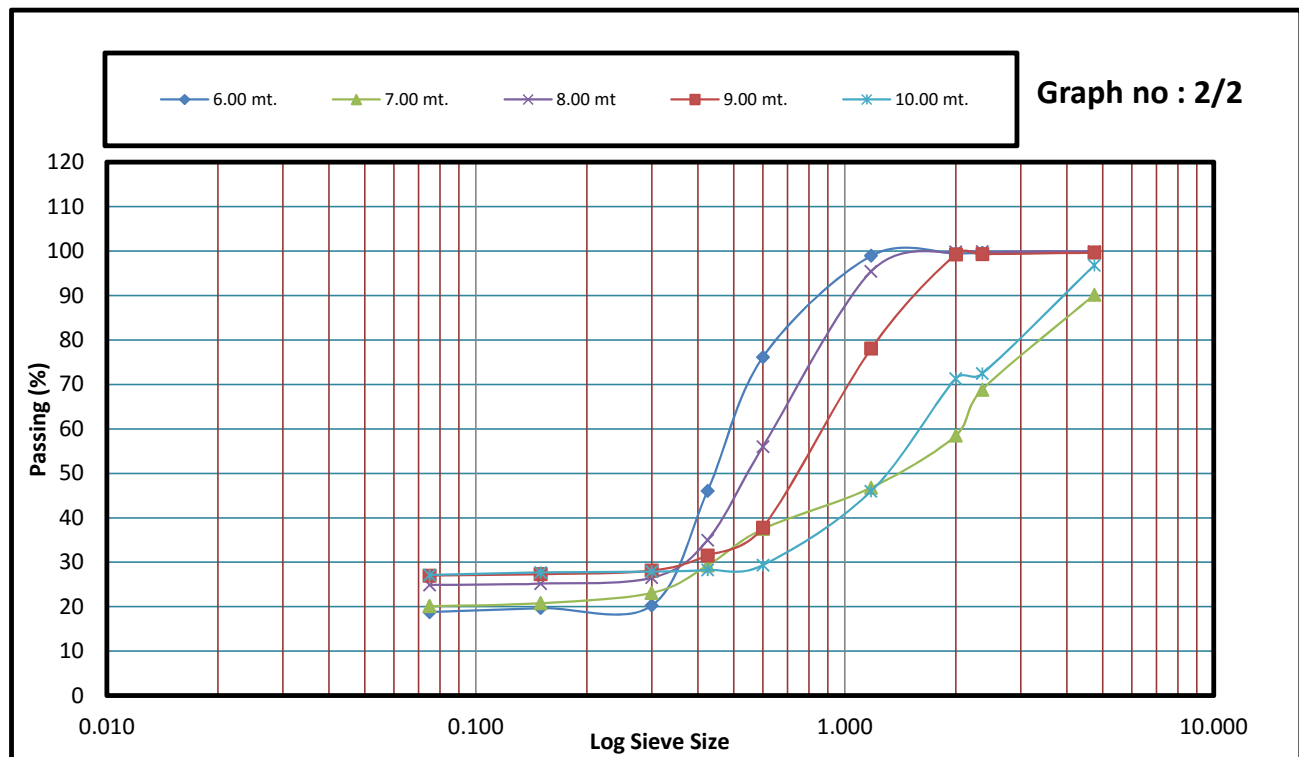
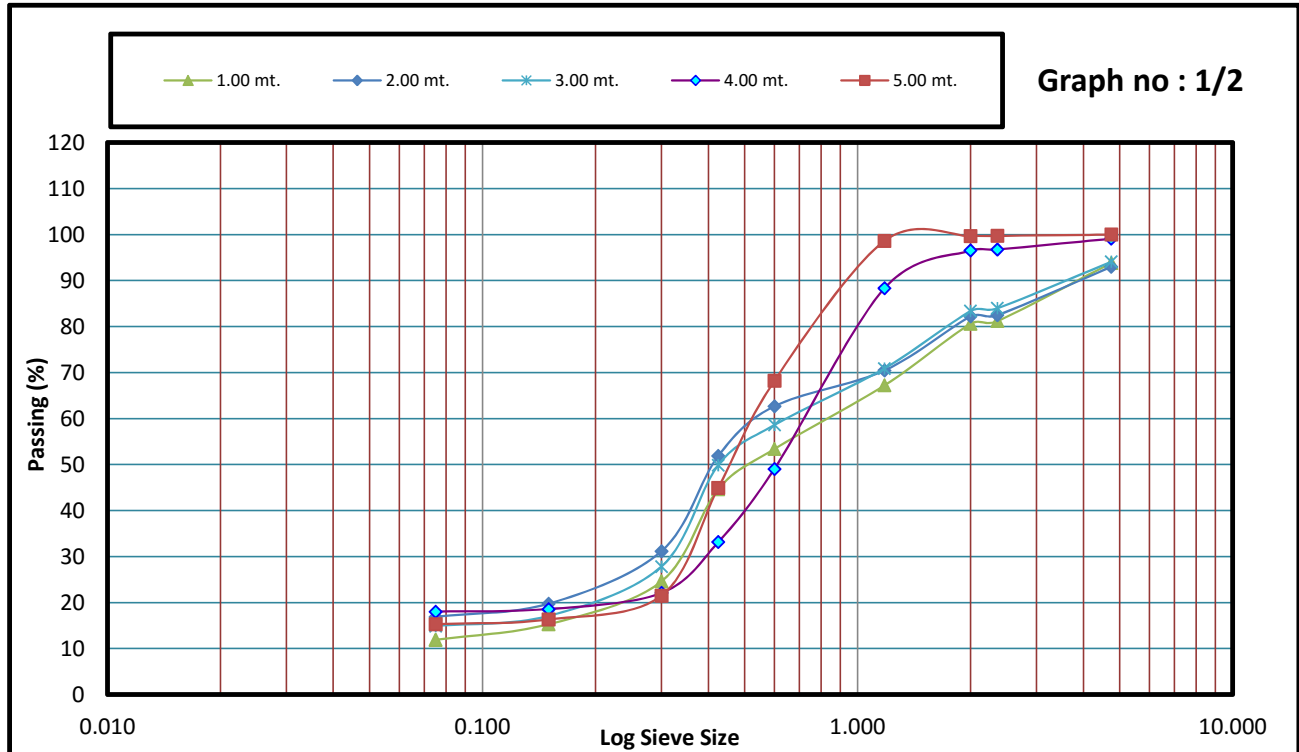
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:60, Alang/Sosiya, Gujarat.

**Plot No.:** 60



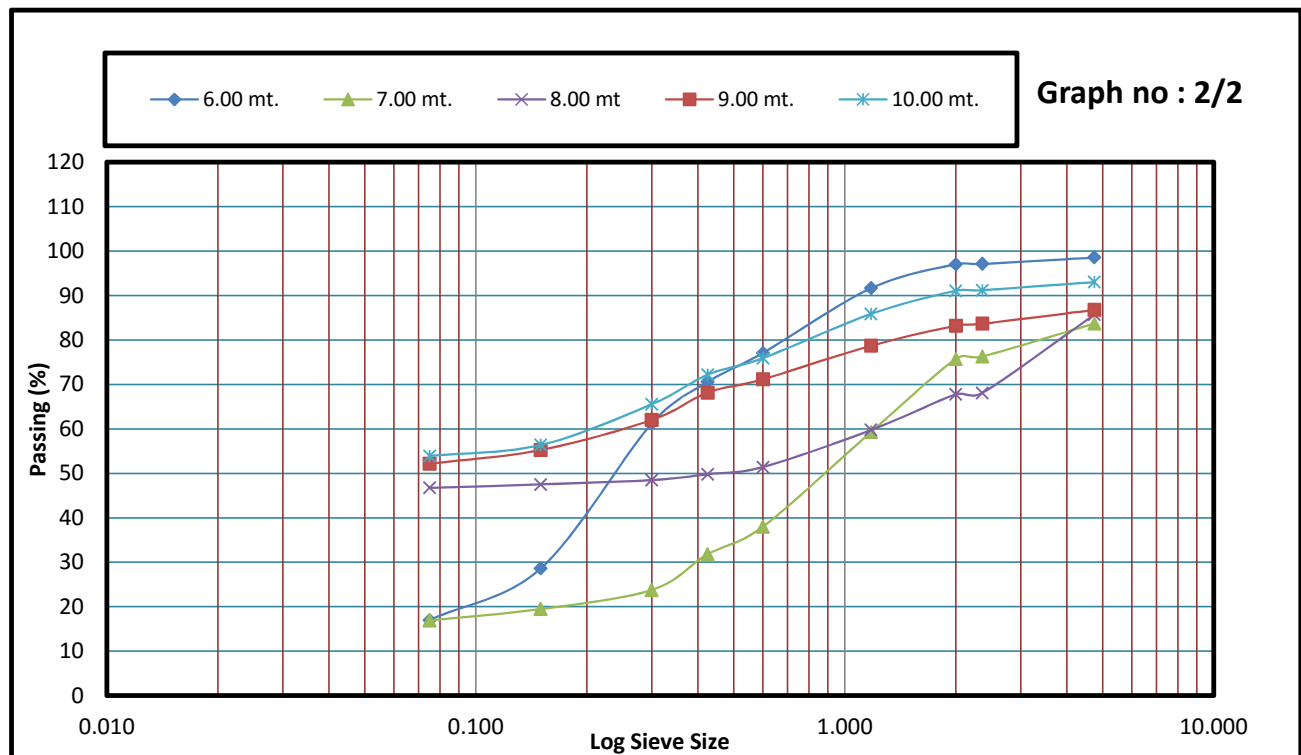
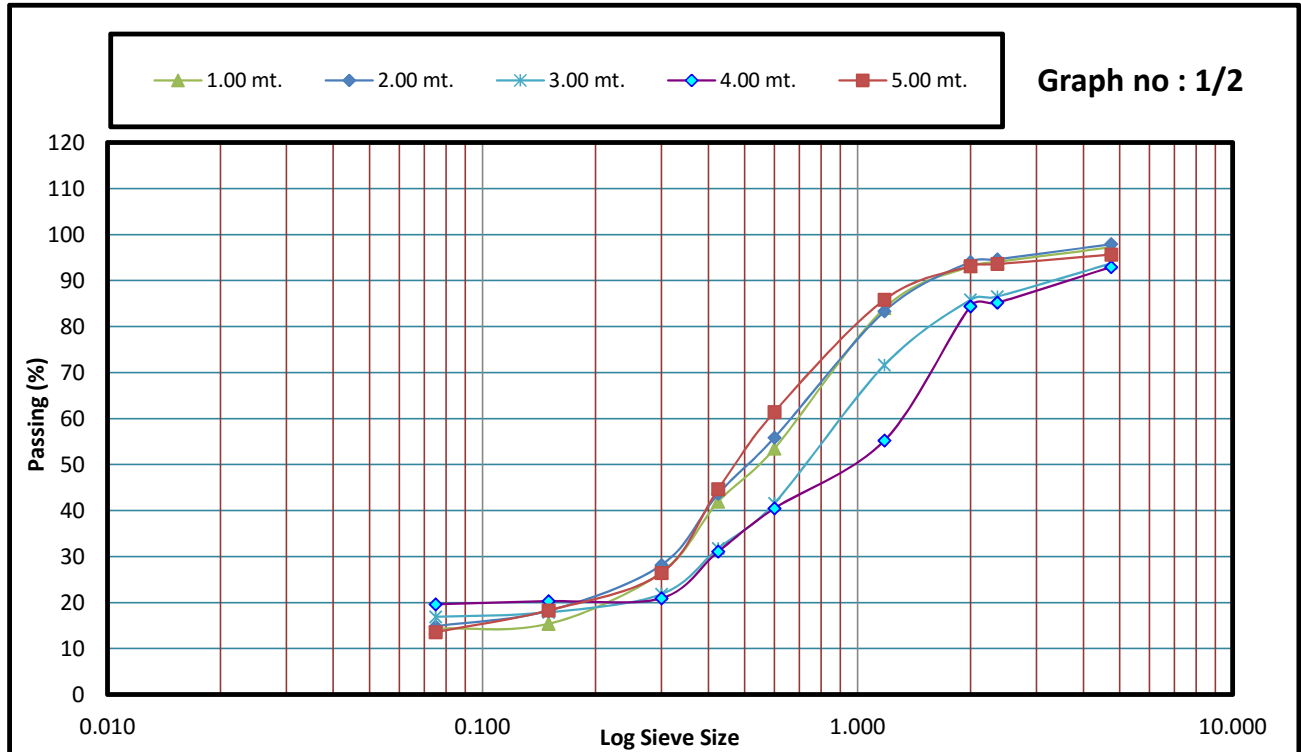
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:57, Alang/Sosiya, Gujarat.

**Plot No.:** 57





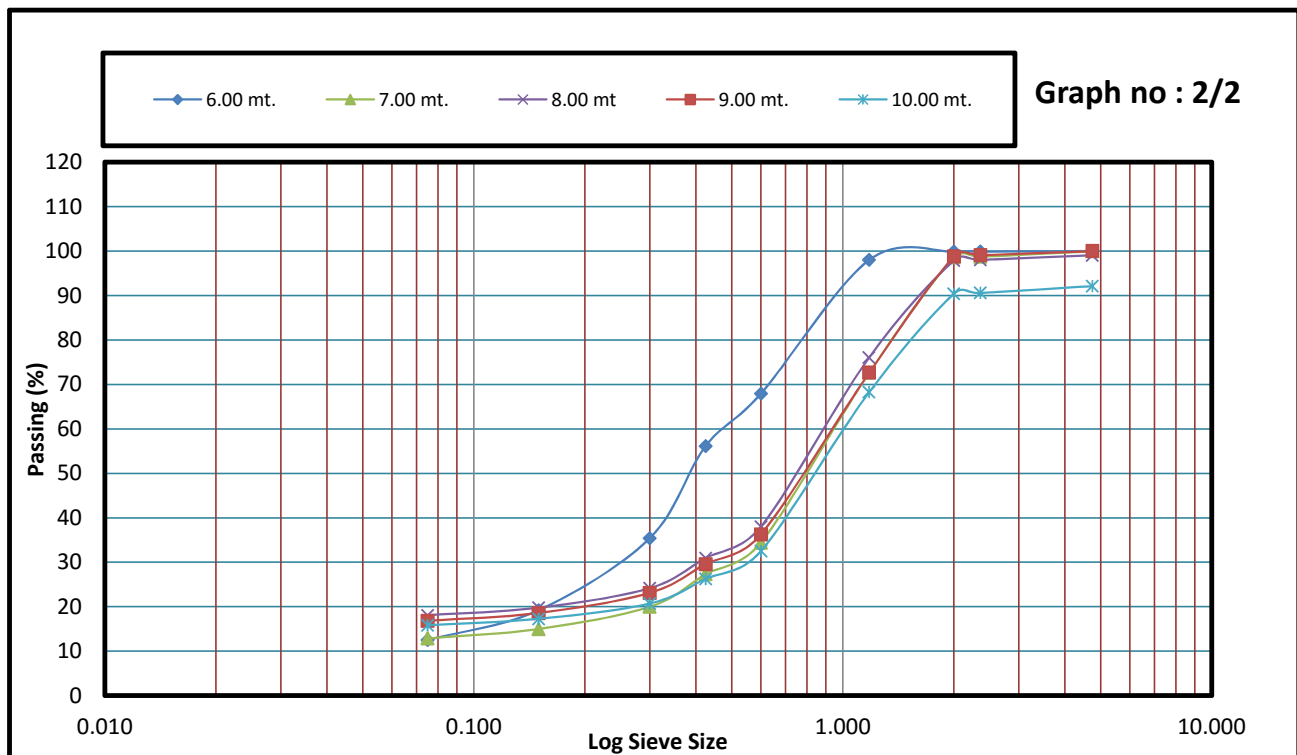
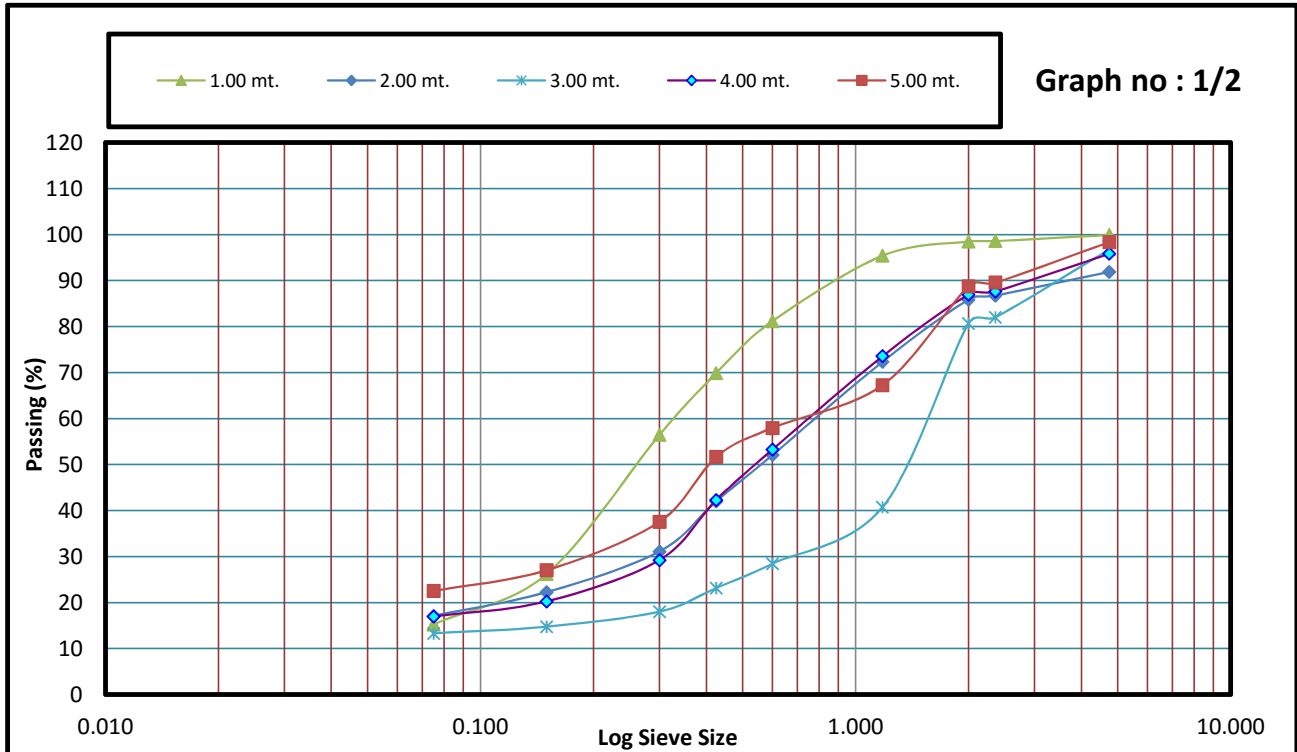
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:55, Alang/Sosiya, Gujarat.

**Plot No.:** 55



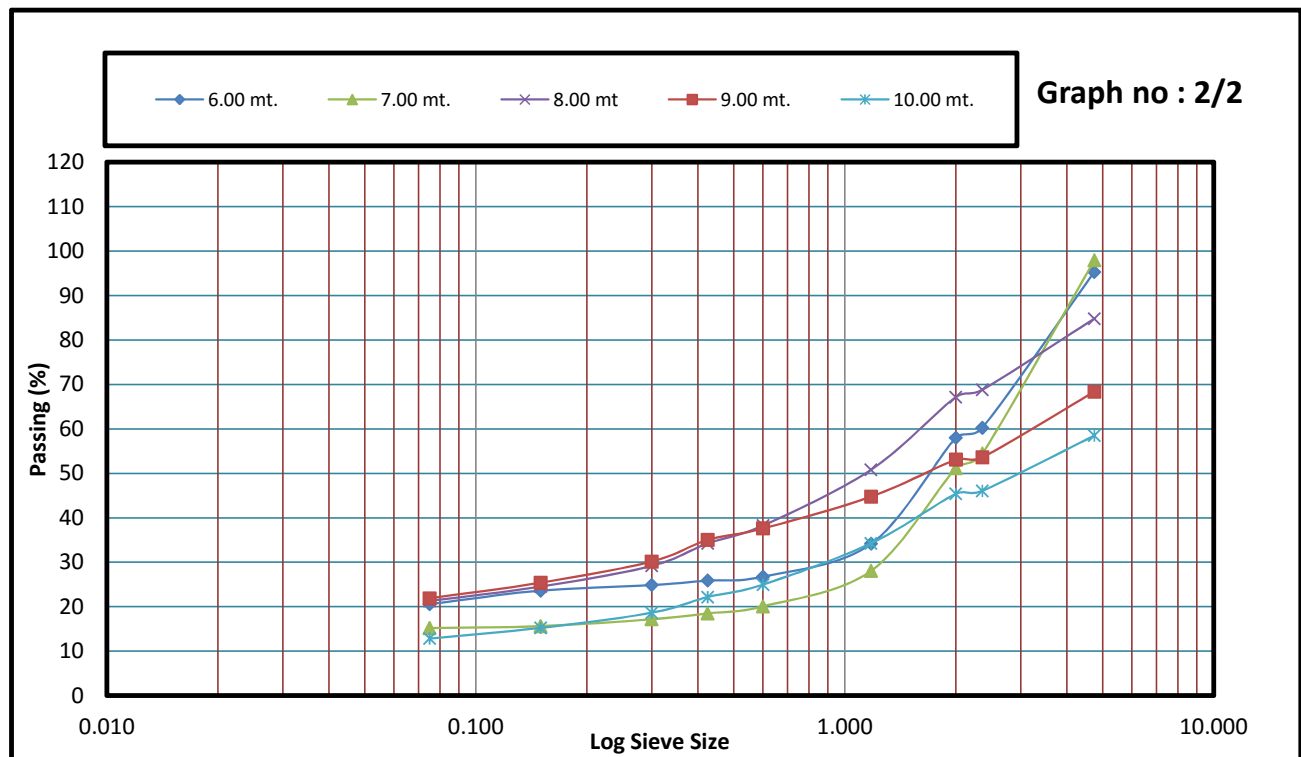
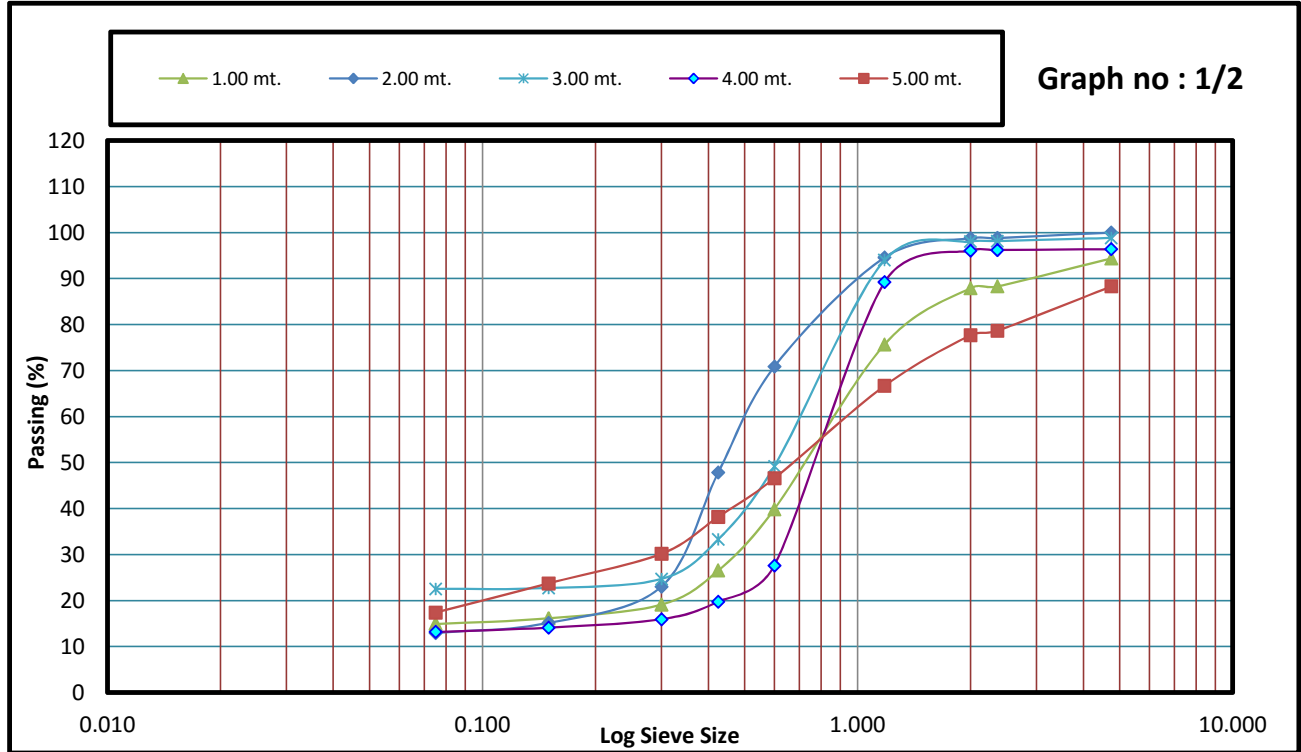
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:23, Alang/Sosiya, Gujarat.

**Plot No.:** 23



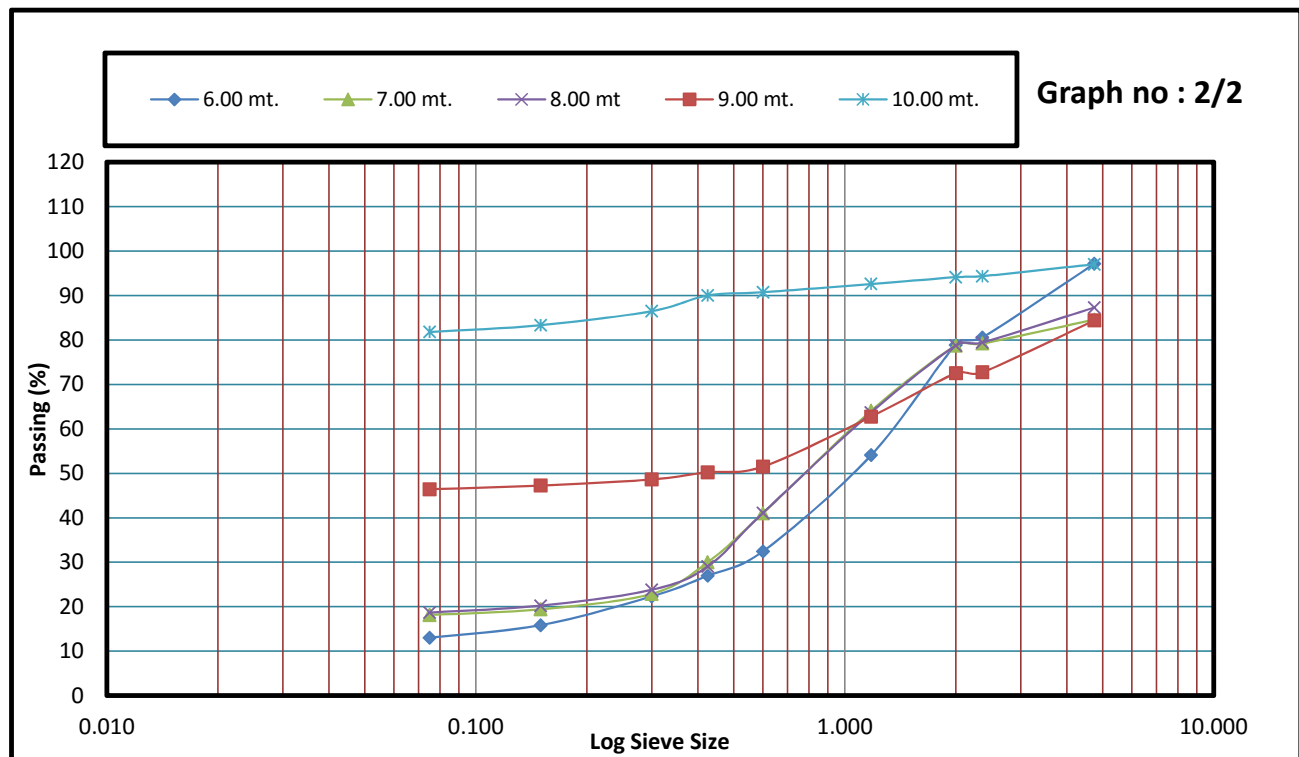
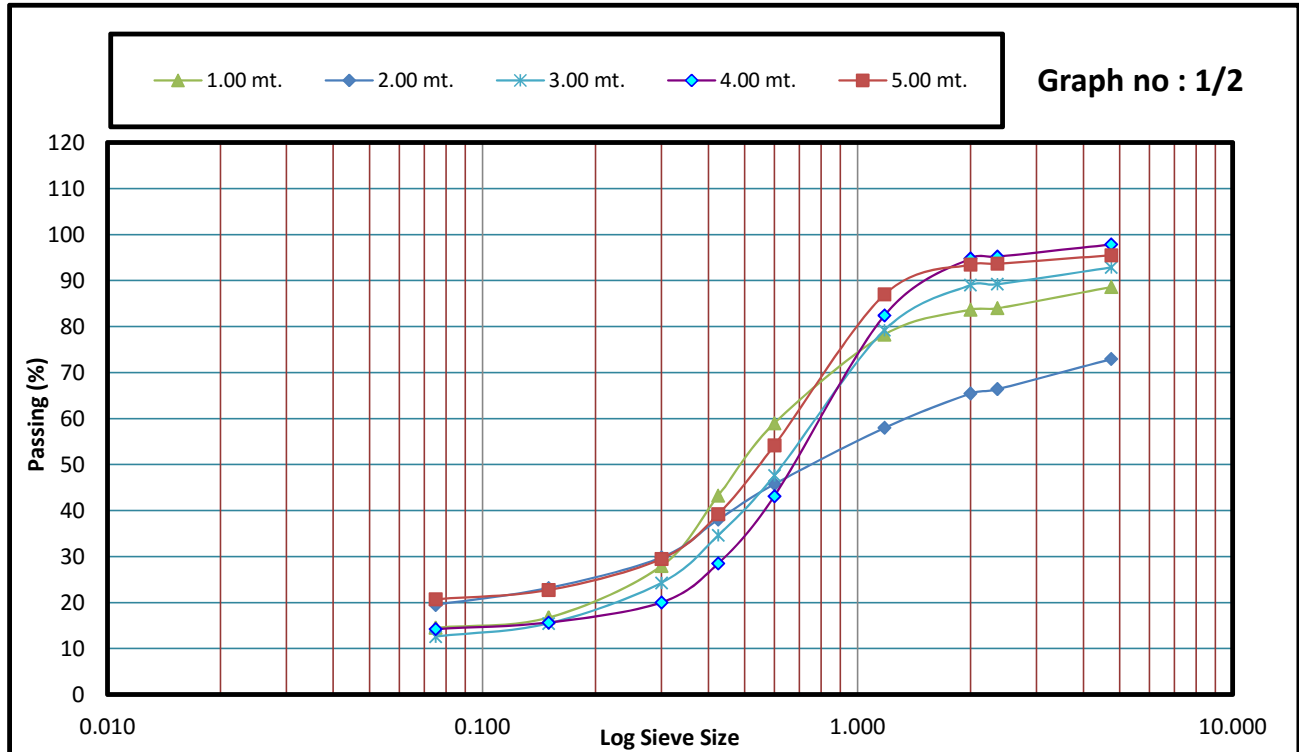
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:20, Alang/Sosiya, Gujarat.

**Plot No.:** 20



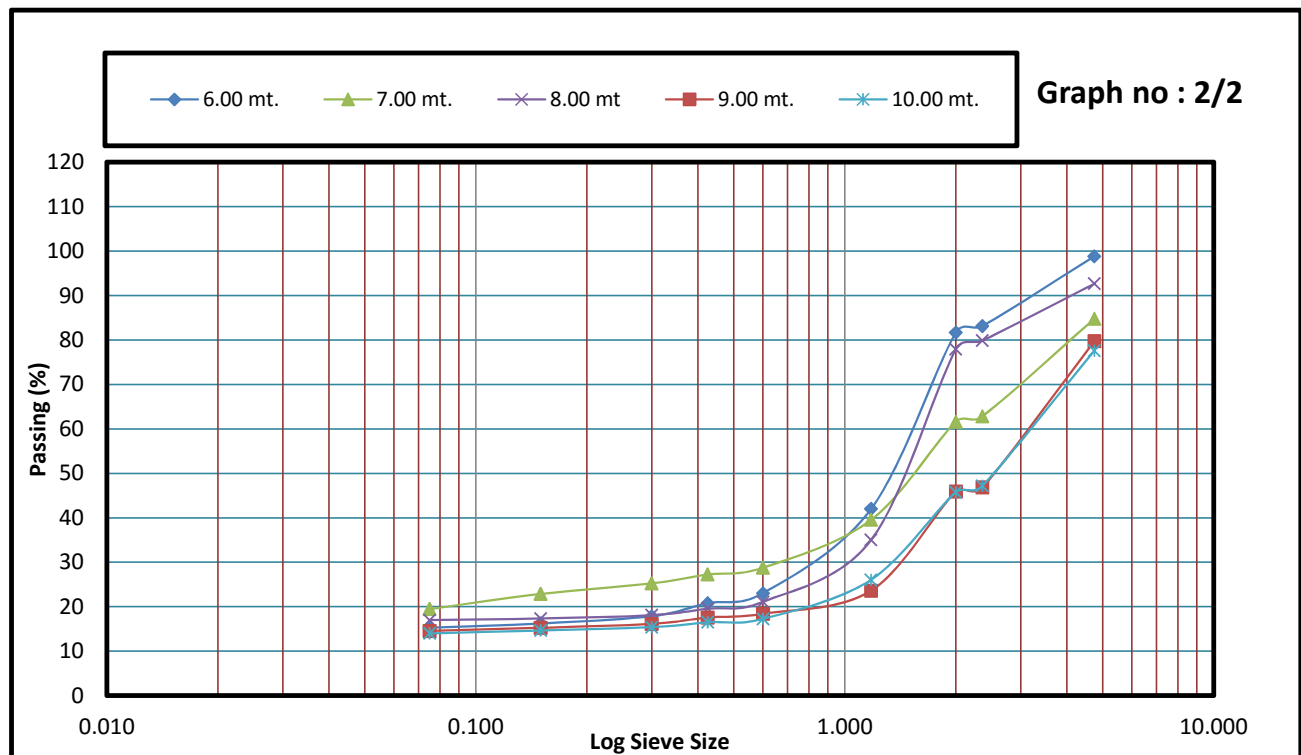
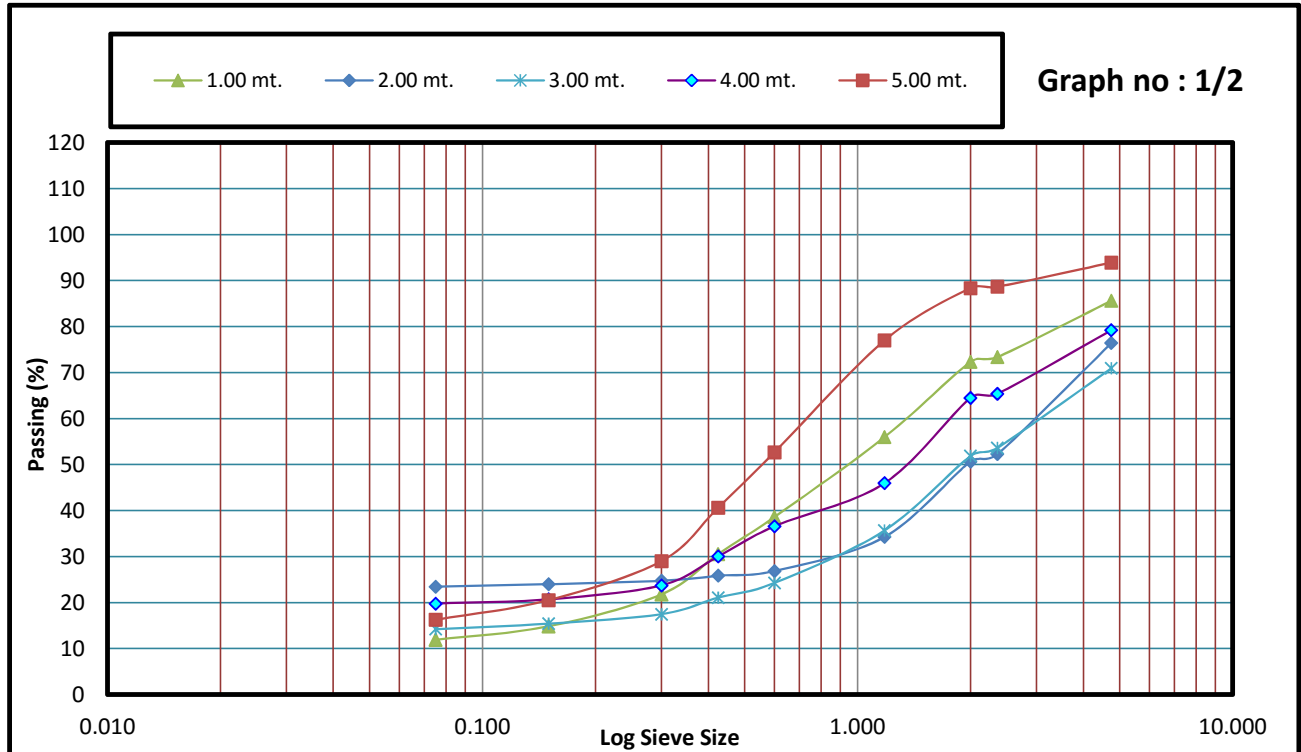
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:18, Alang/Sosiya, Gujarat.

**Plot No.:** 18



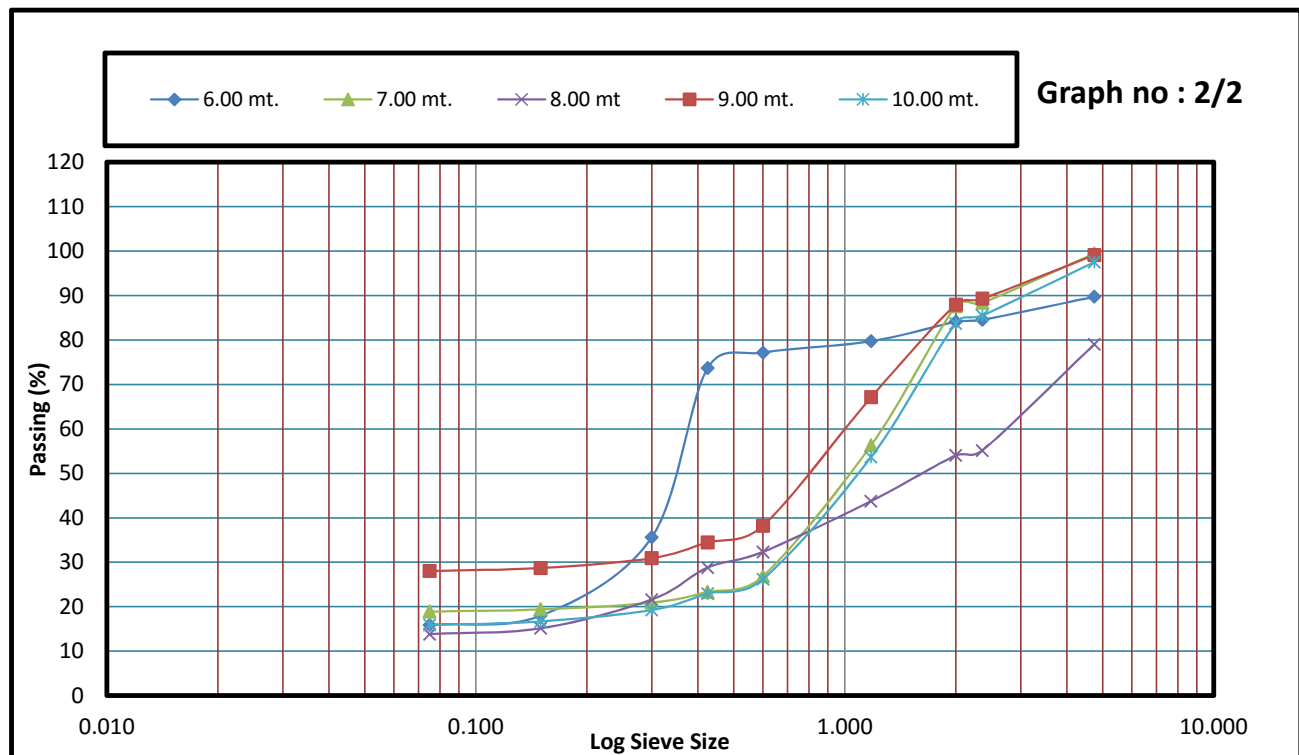
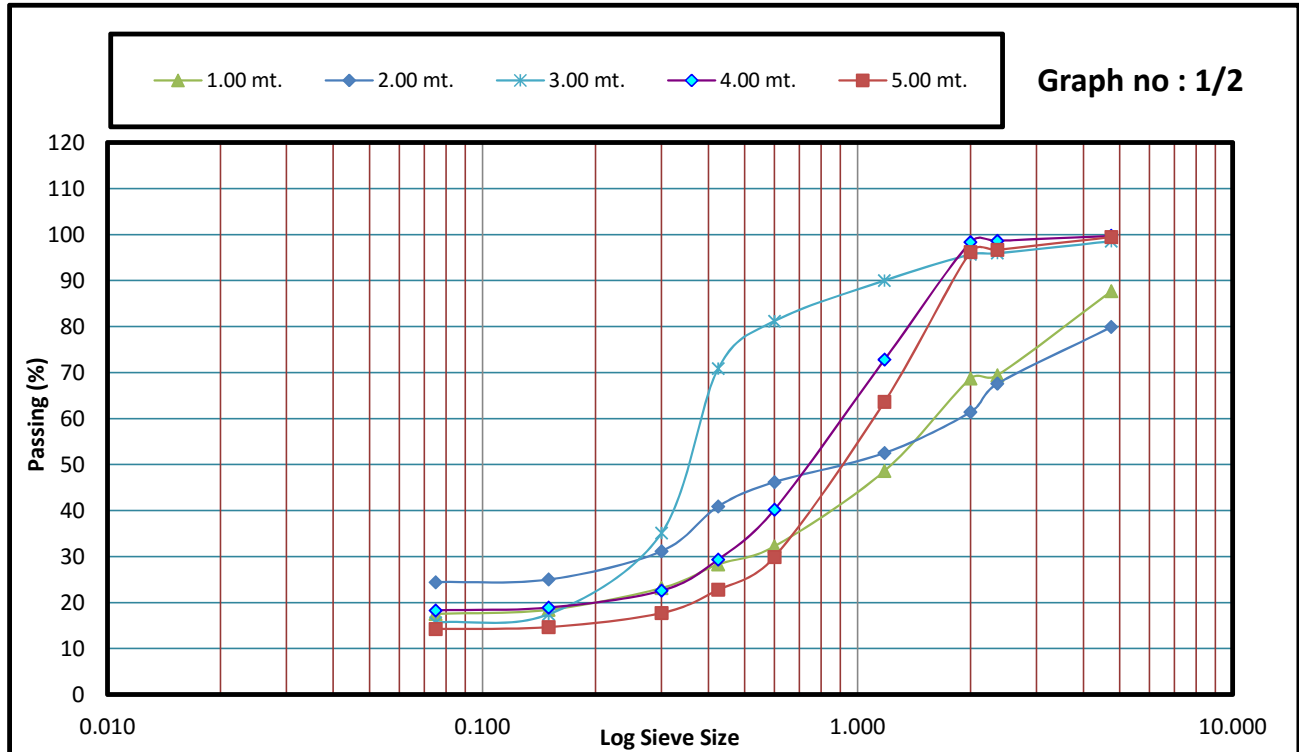
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:16, Alang/Sosiya, Gujarat.

**Plot No.:** 16



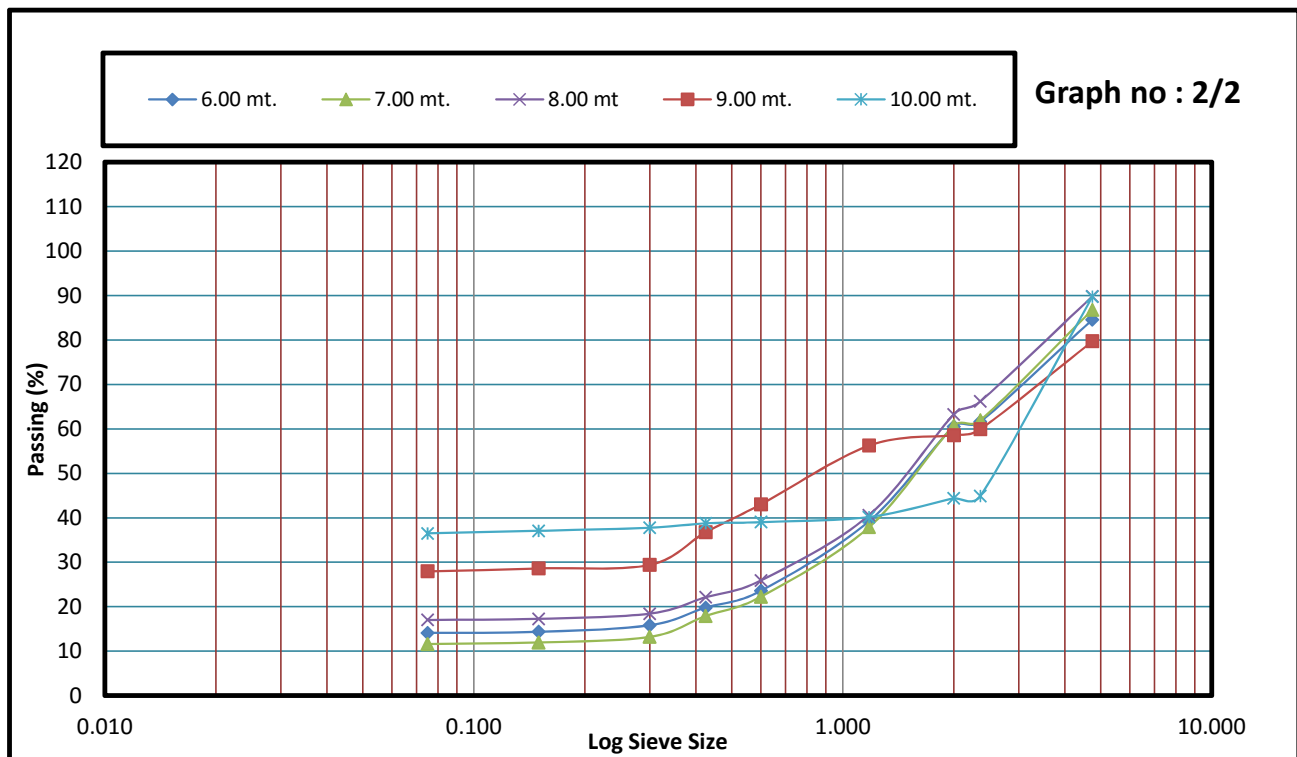
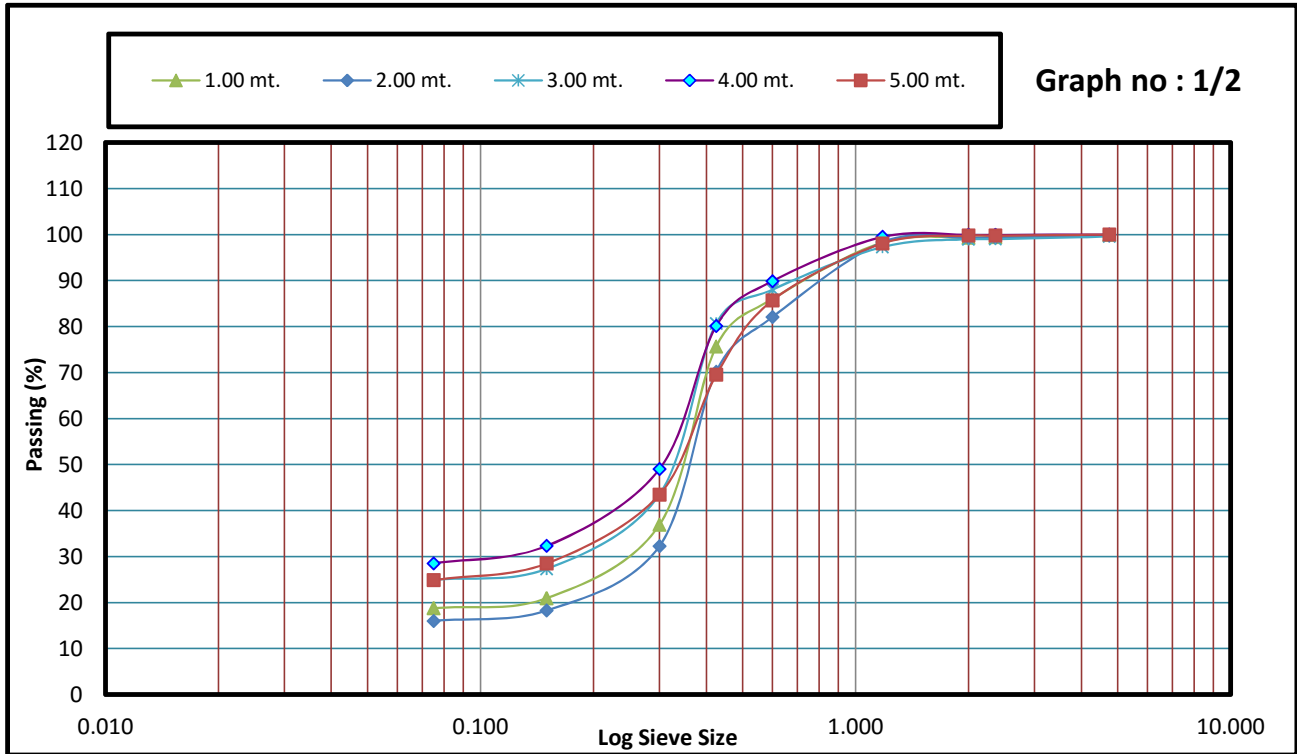
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:14, Alang/Sosiya, Gujarat.

**Plot No.:** 14



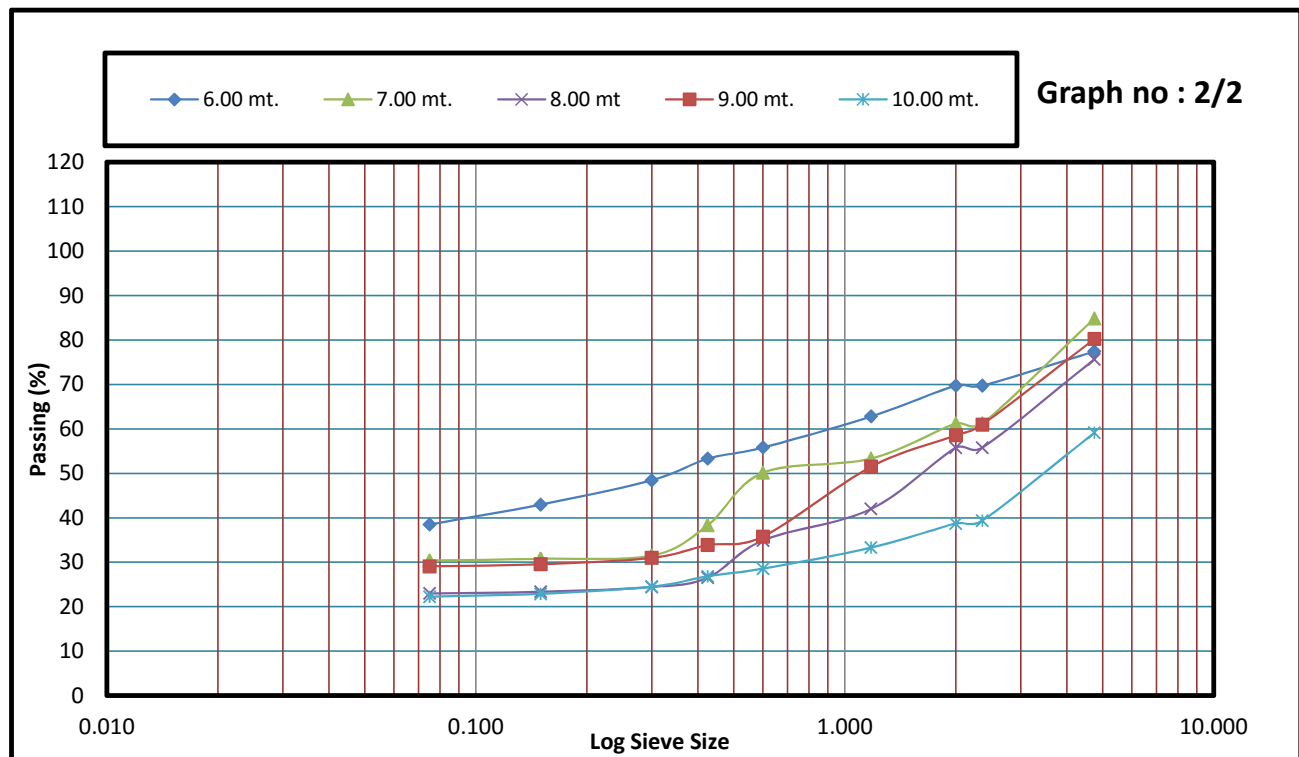
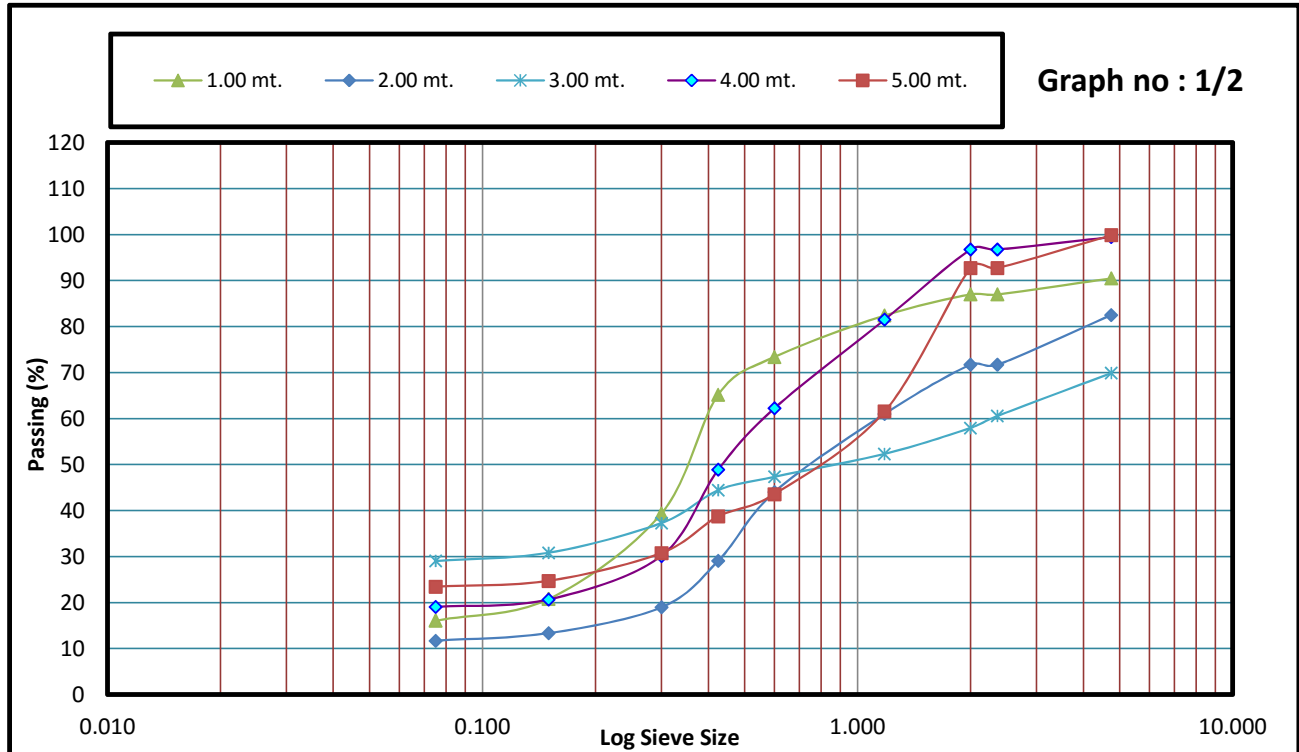
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:12, Alang/Sosiya, Gujarat.

**Plot No.:** 12



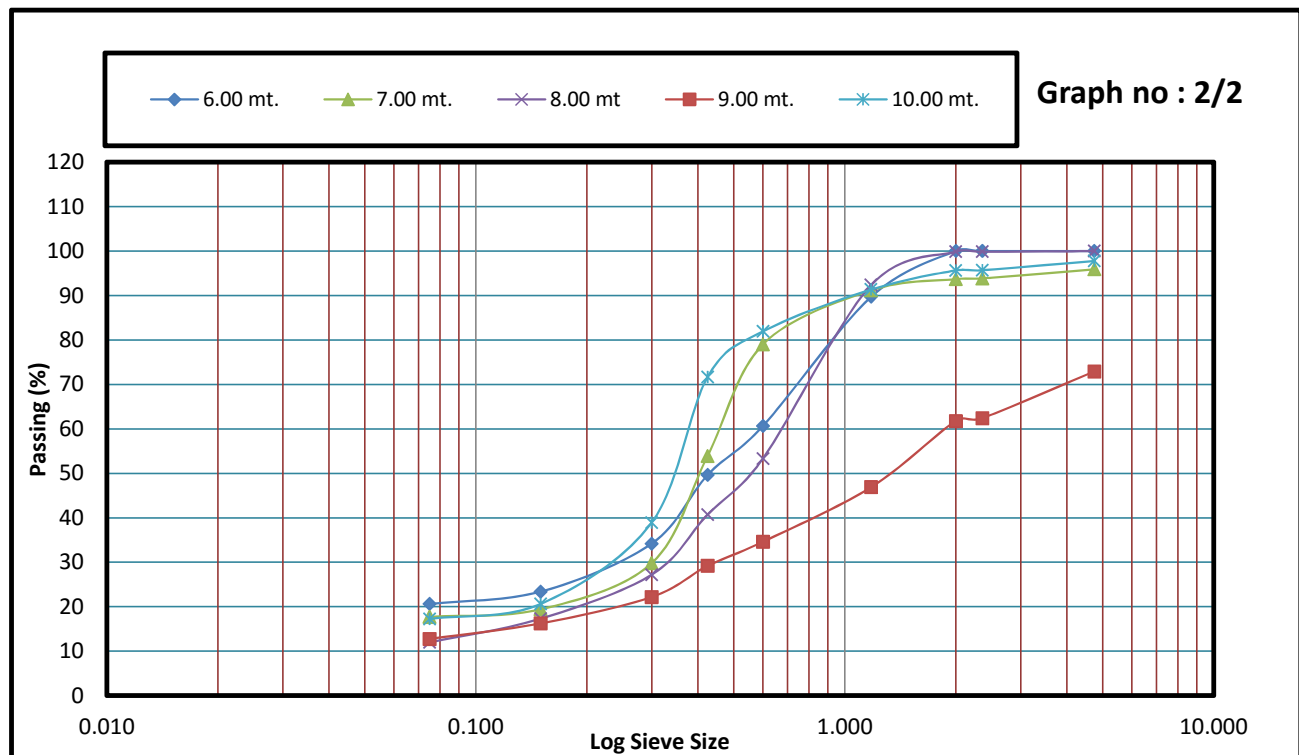
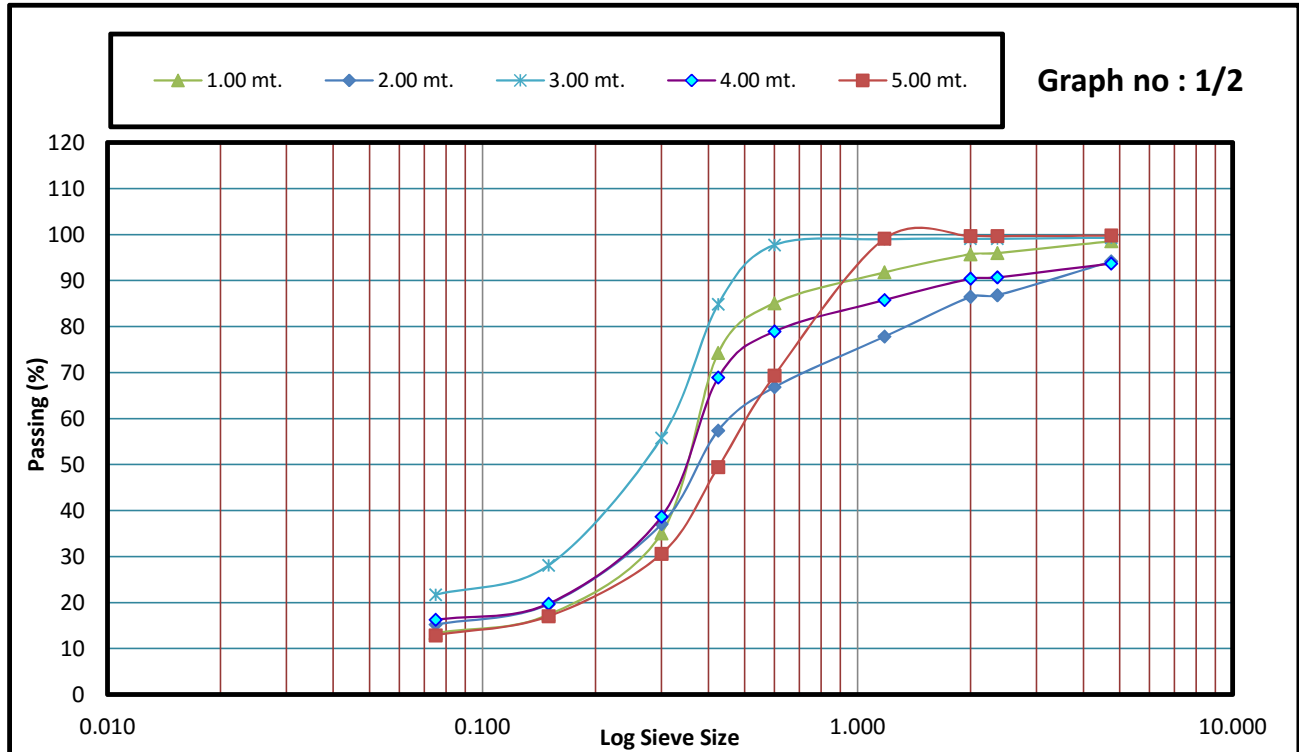
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:10, Alang/Sosiya, Gujarat.

**Plot No.:** 10





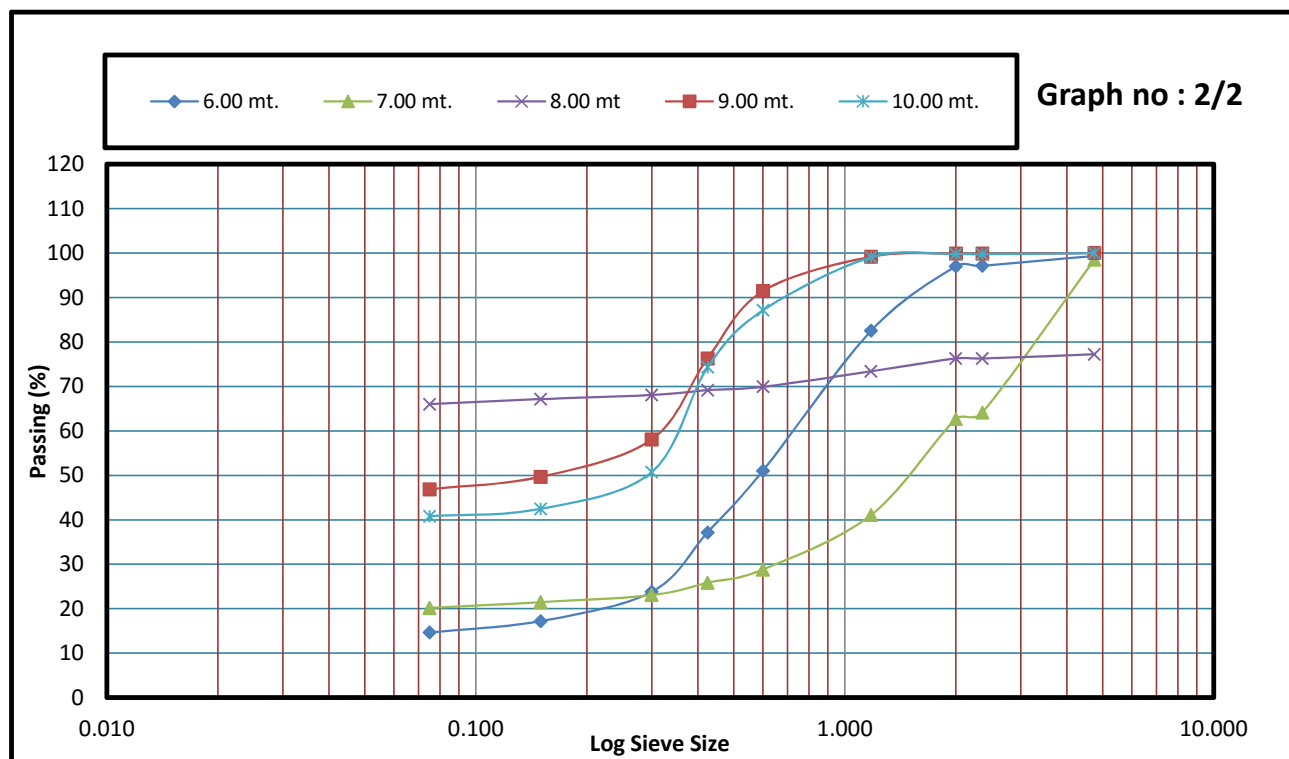
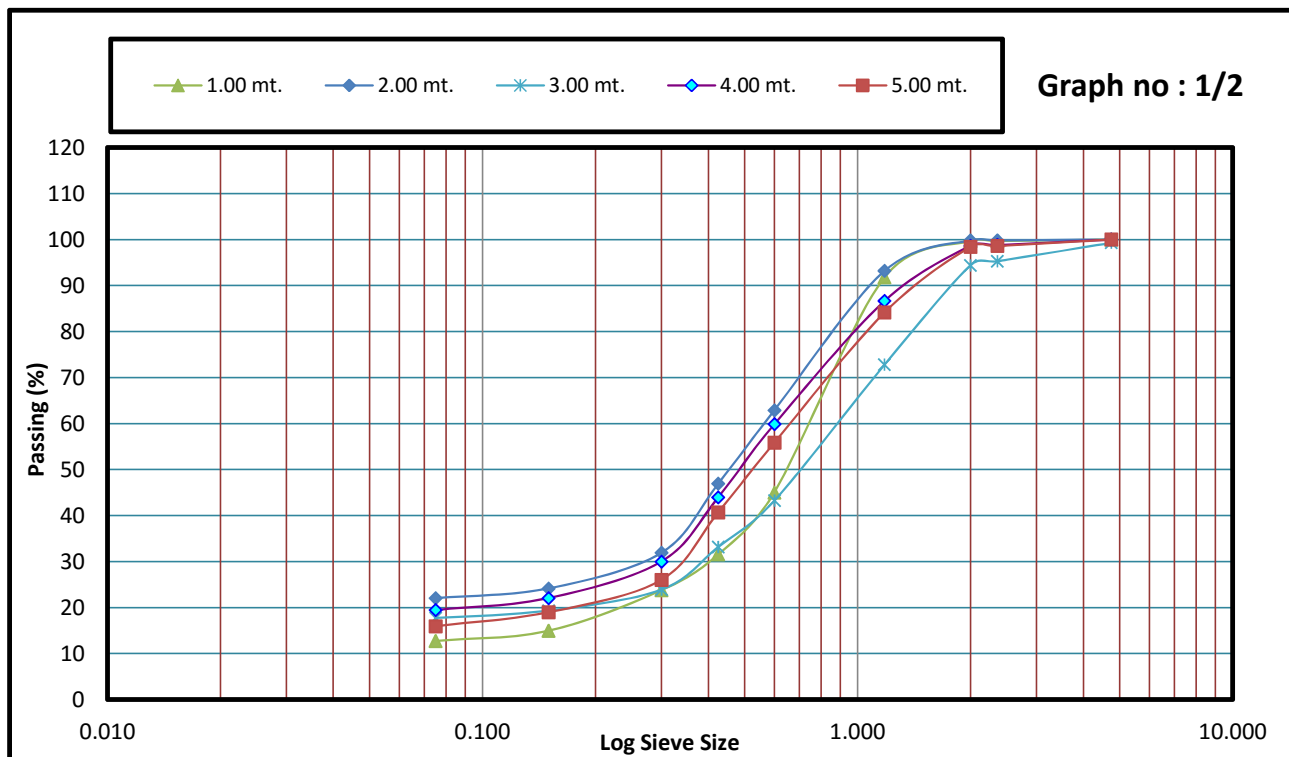
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:9, Alang/Sosiya, Gujarat.

**Plot No.:** 9



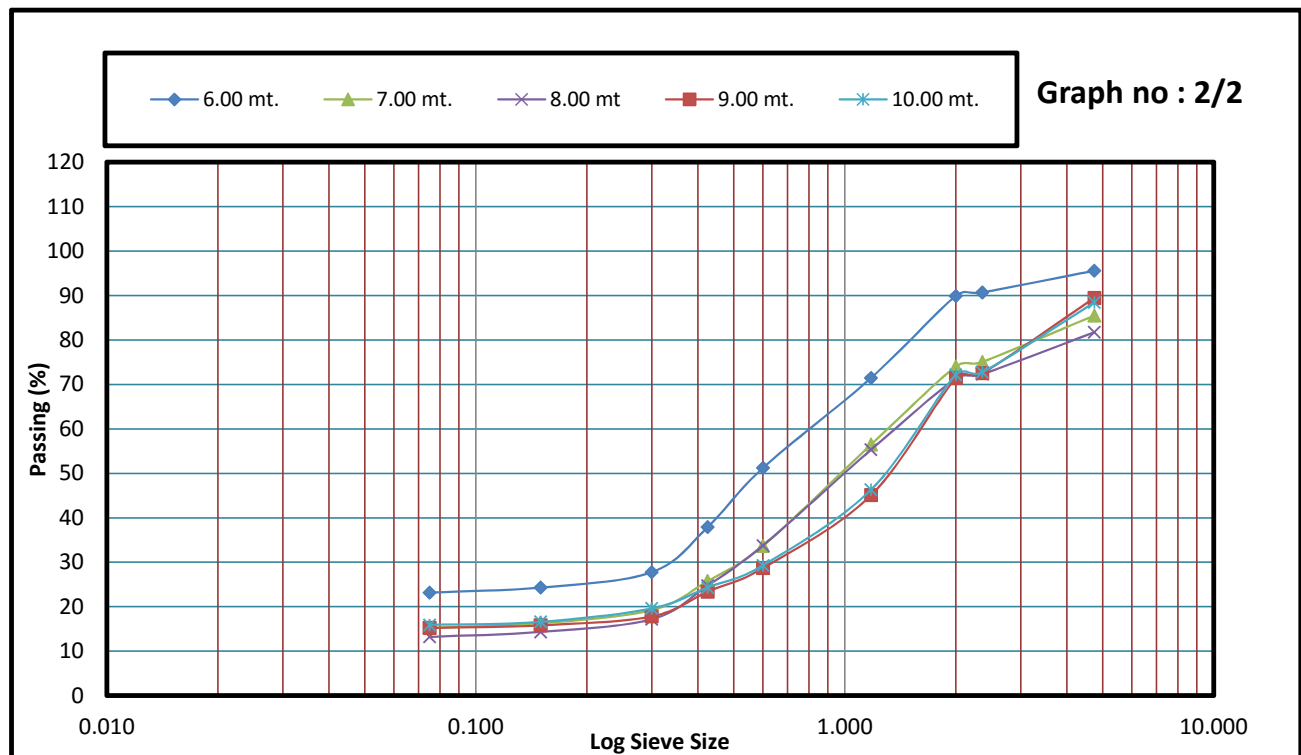
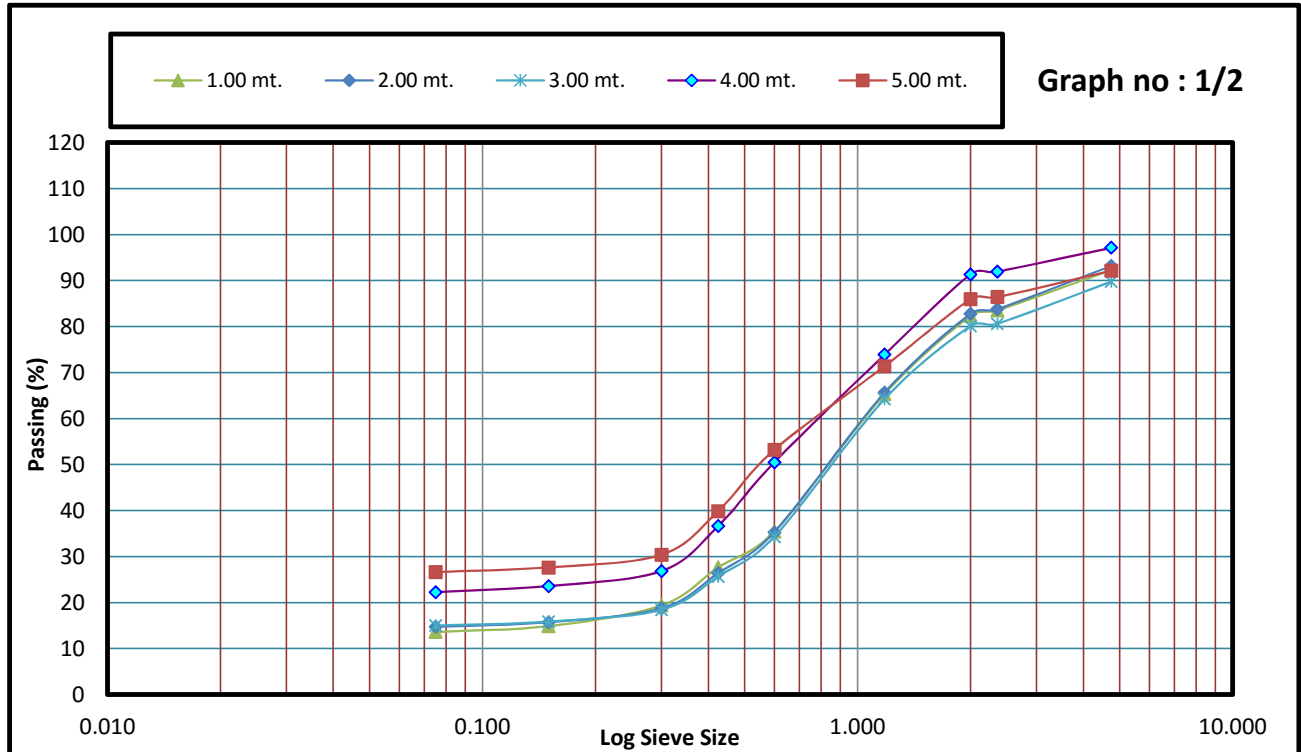
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:8, Alang/Sosiya, Gujarat.

**Plot No.:** 8



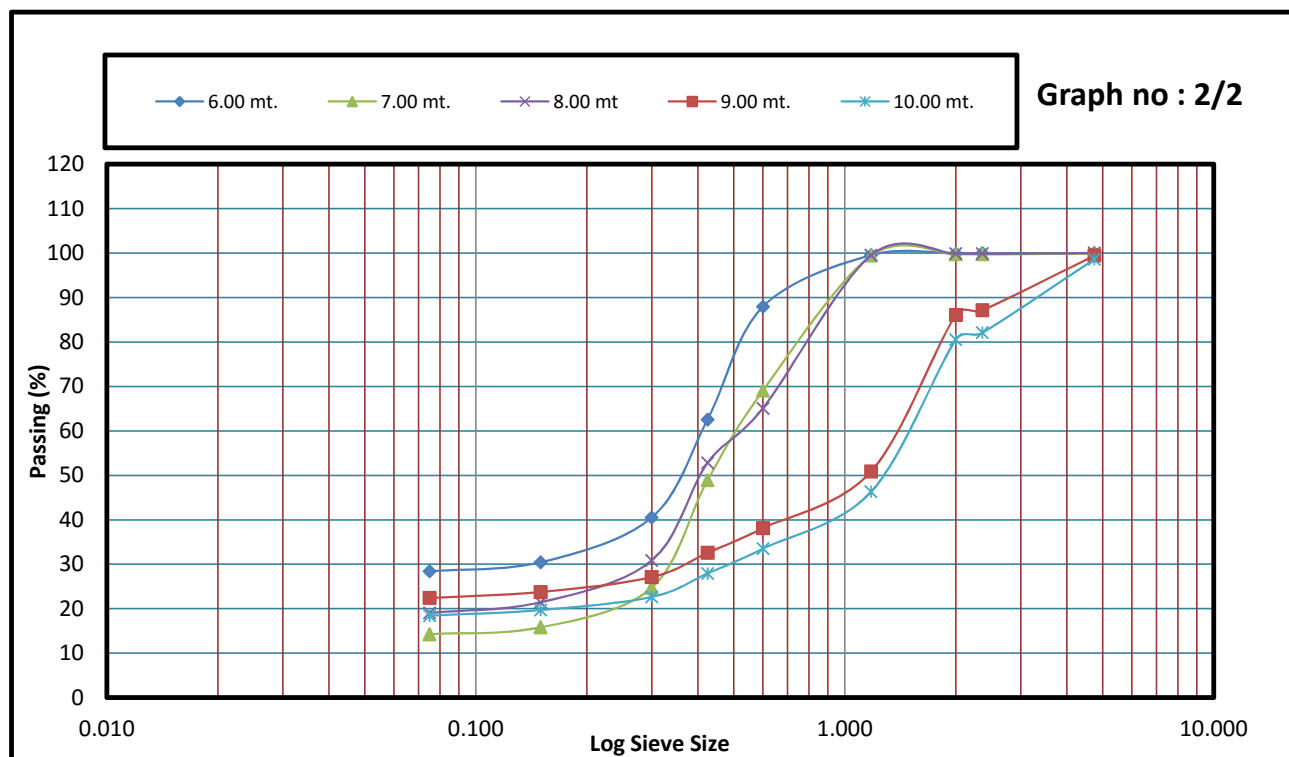
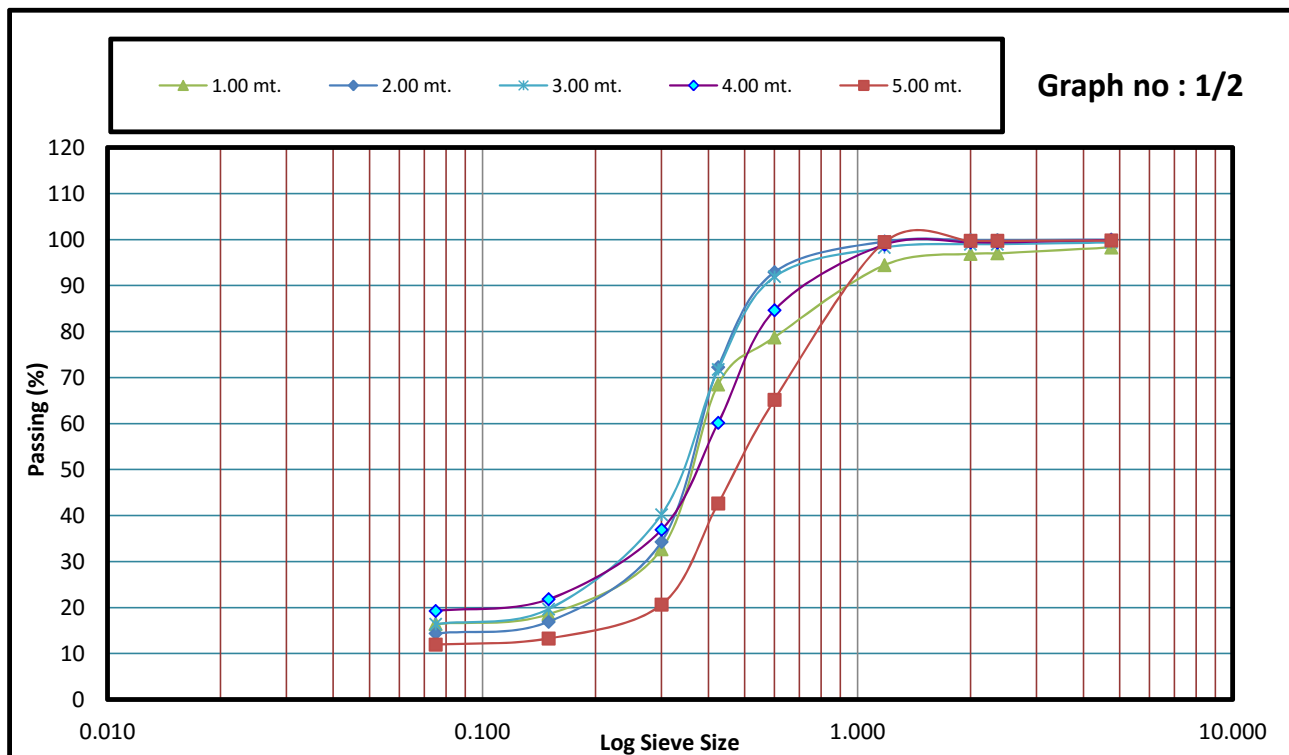
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:7, Alang/Sosiya, Gujarat.

**Plot No.:** 7



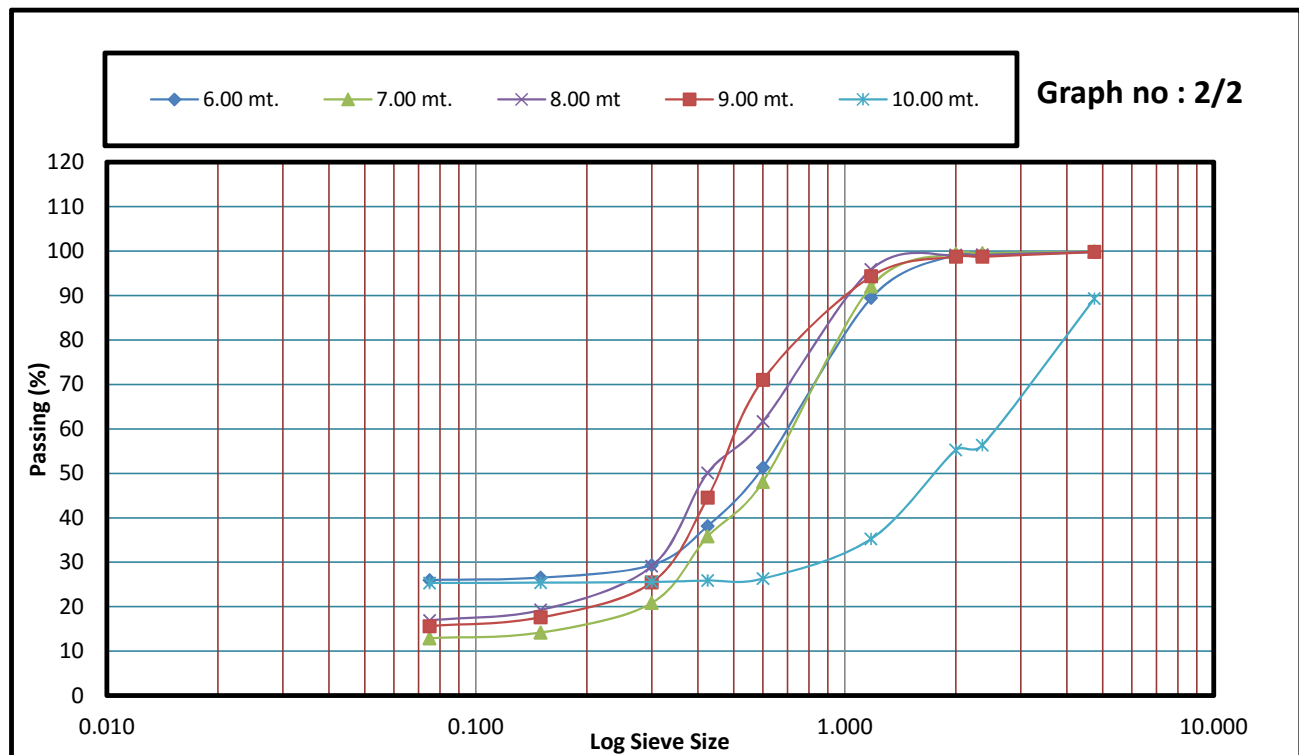
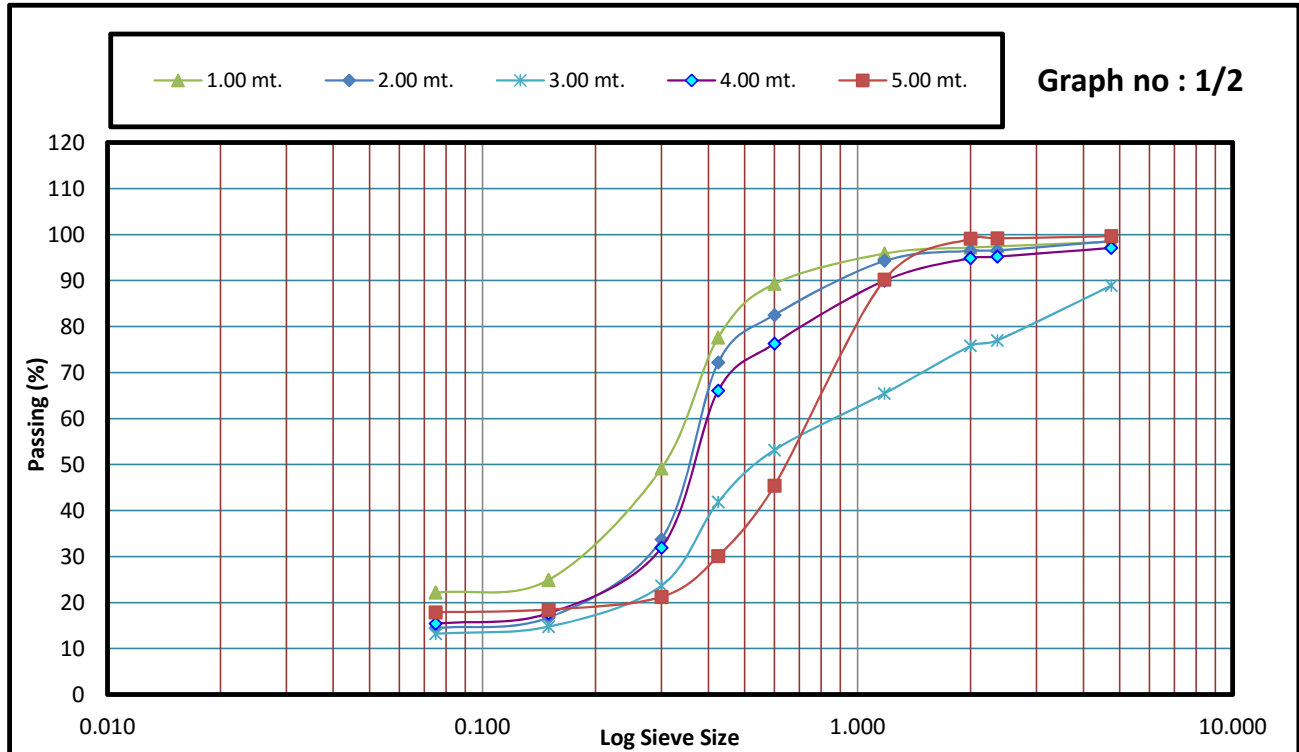
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:5, Alang/Sosiya, Gujarat.

**Plot No.:** 5



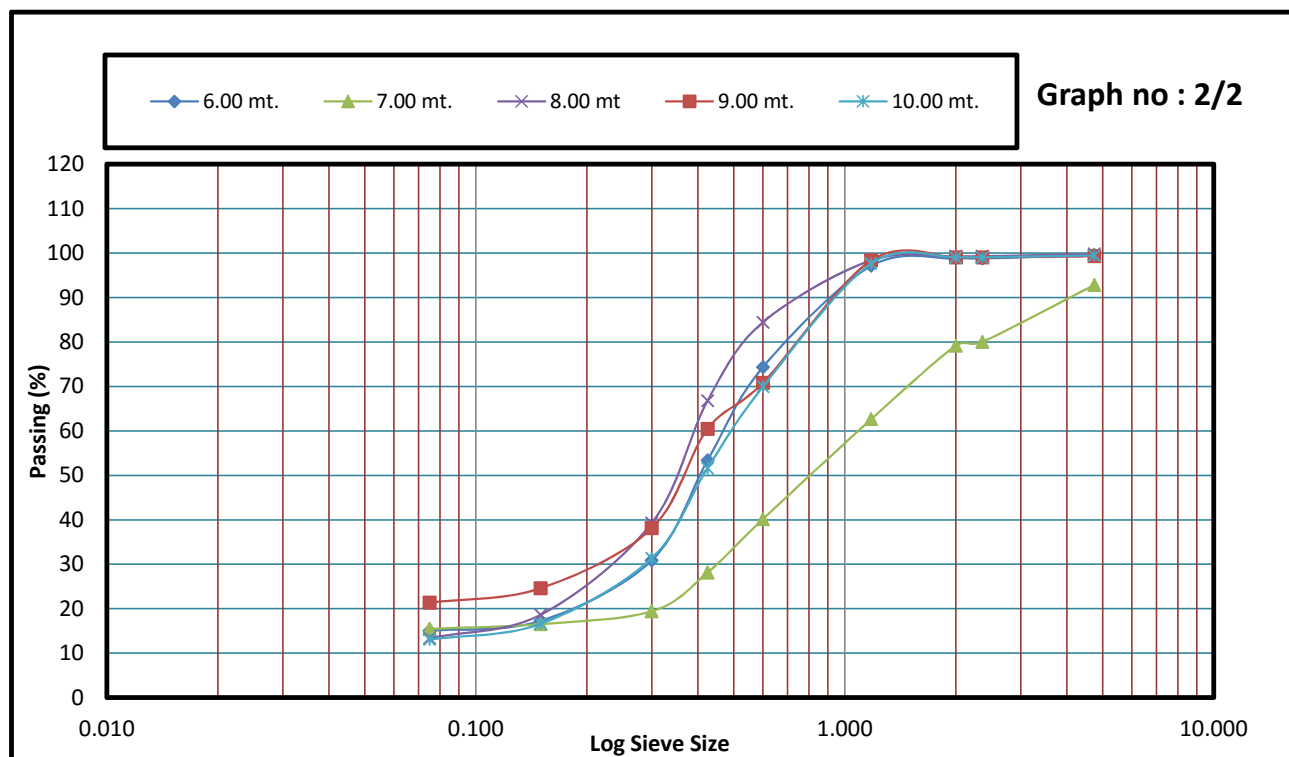
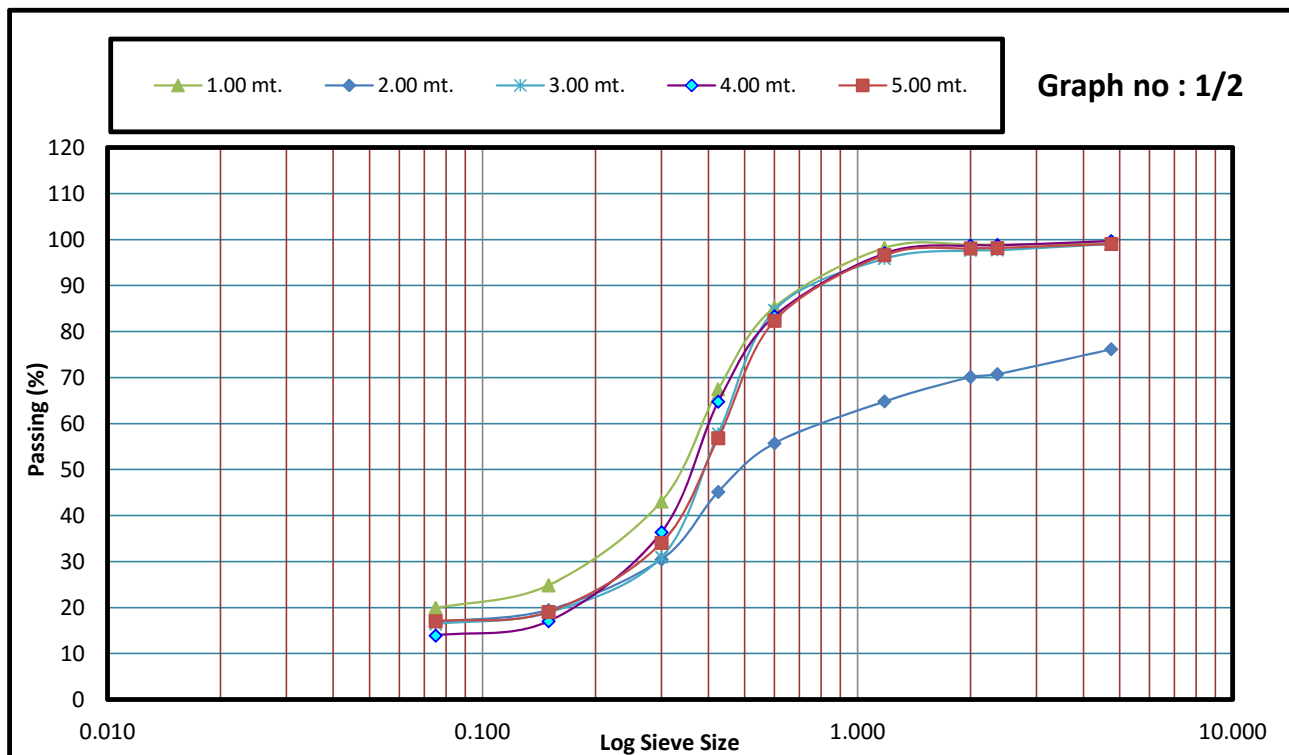
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:4, Alang/Sosiya, Gujarat.

**Plot No.:** 4



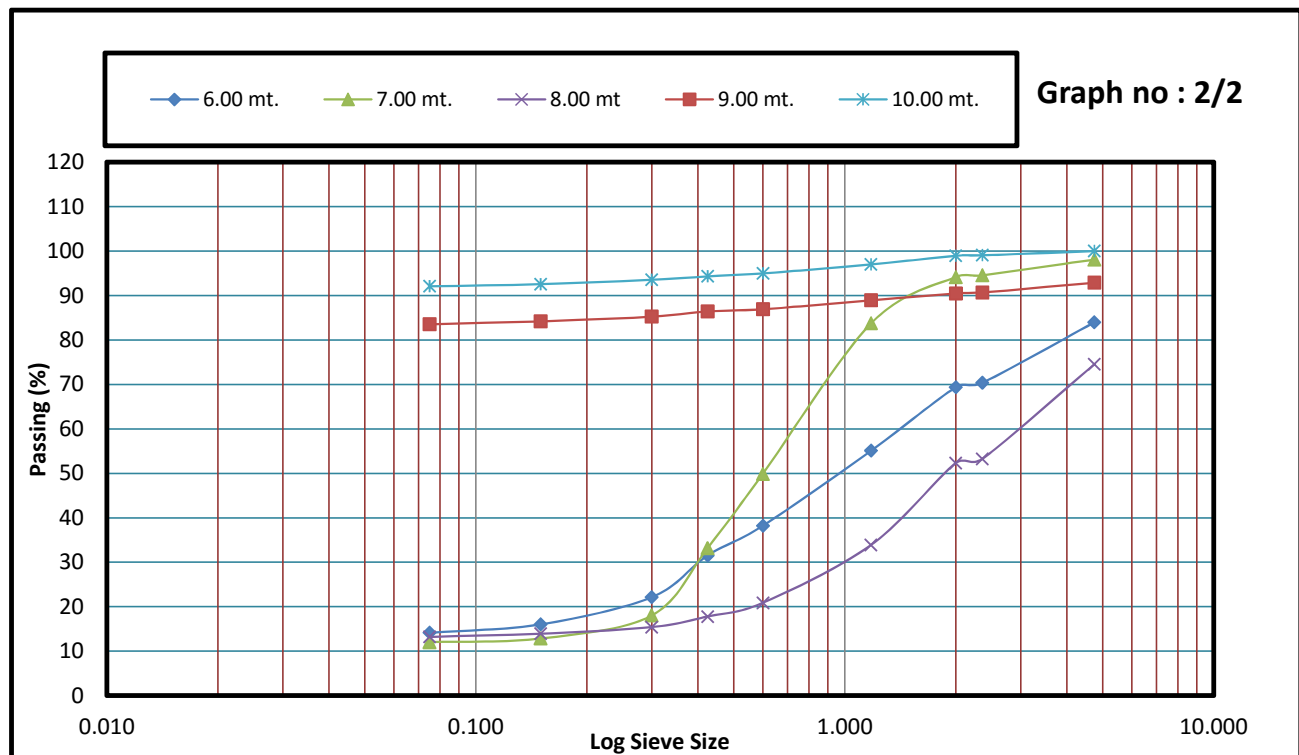
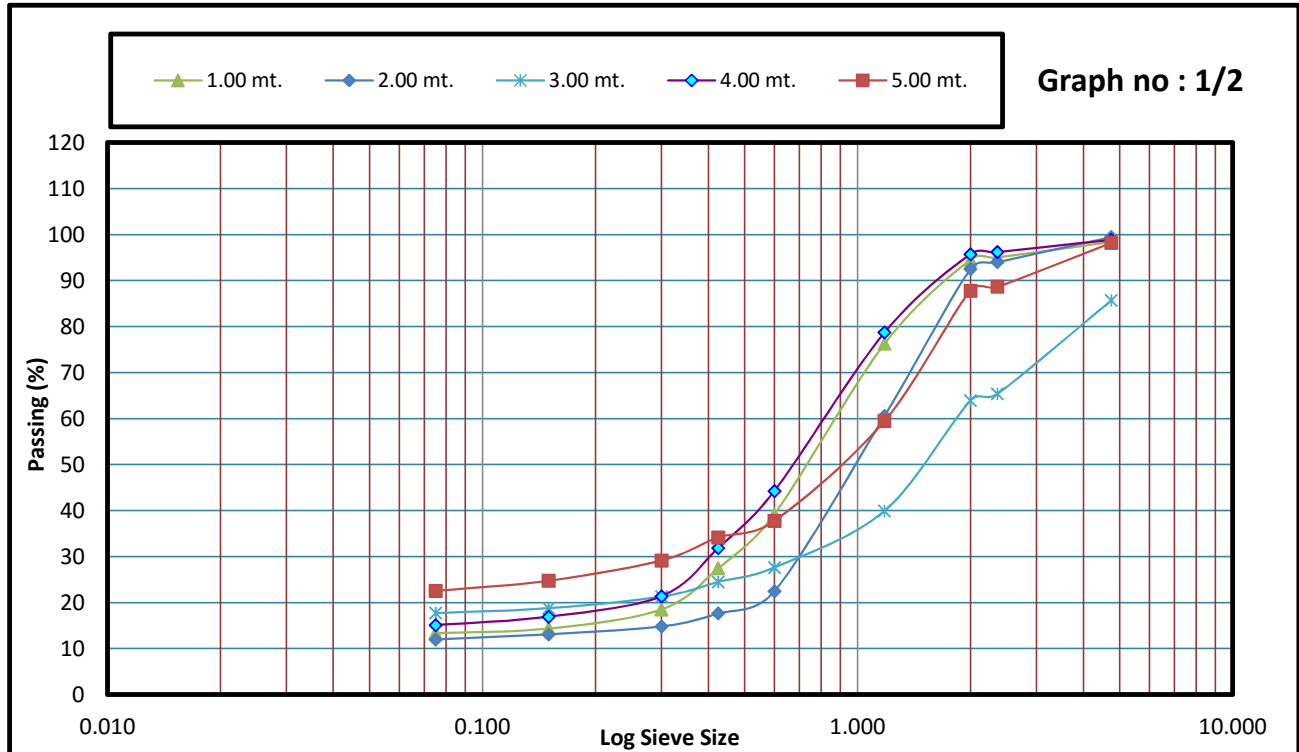
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:3, Alang/Sosiya, Gujarat.

**Plot No.:** 3



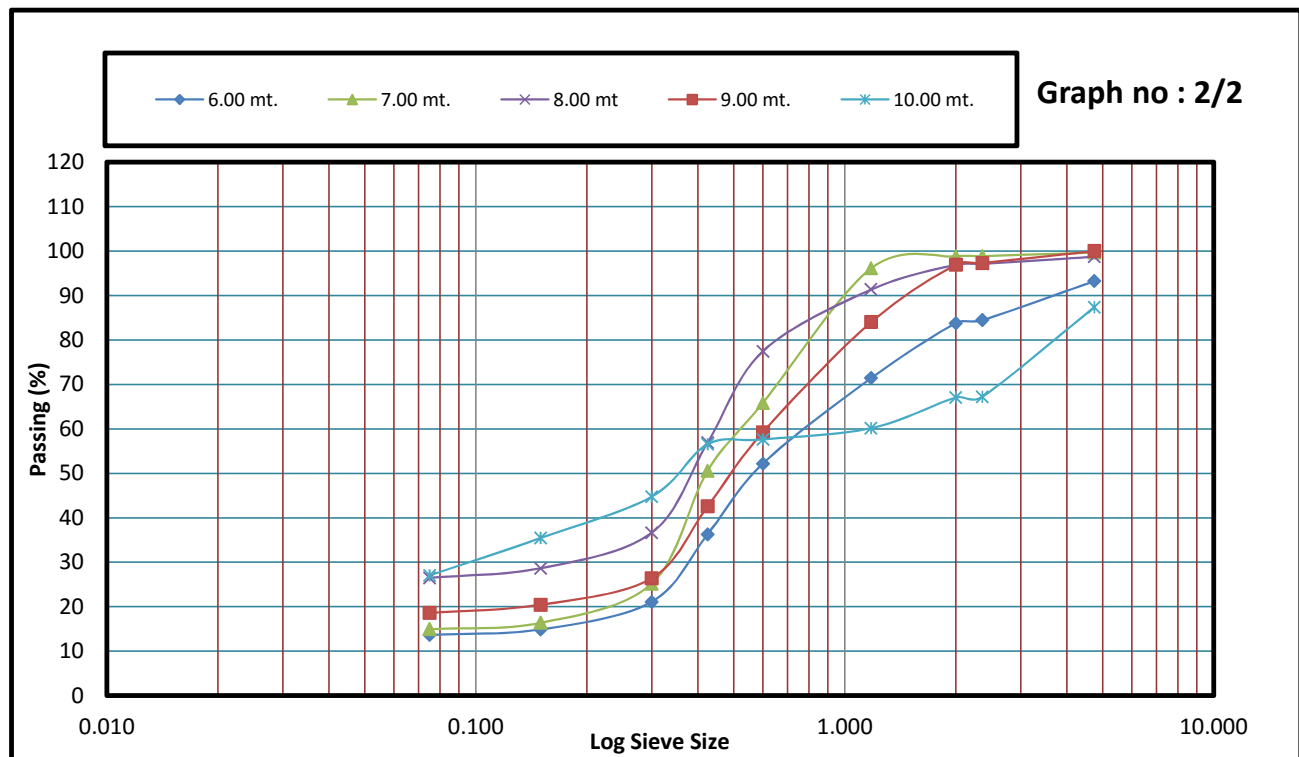
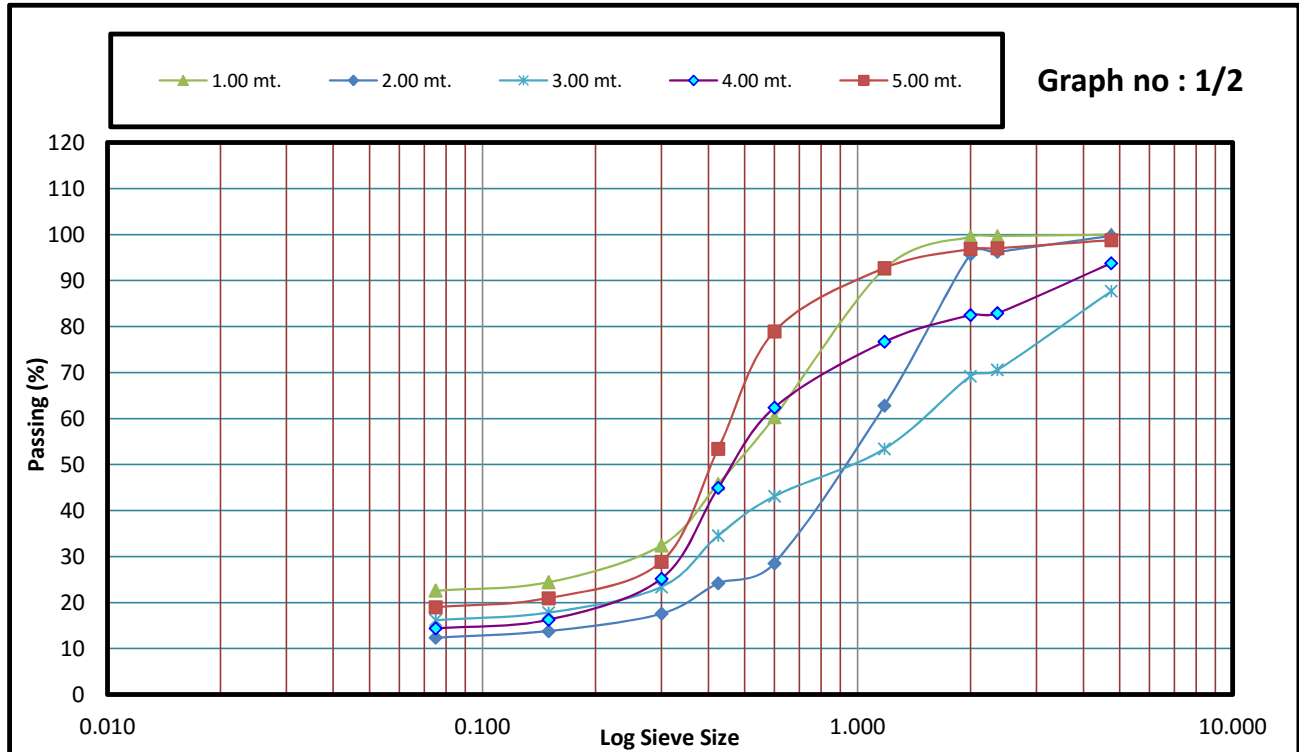
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:25, Alang/Sosiya, Gujarat.

**Plot No.:** 25



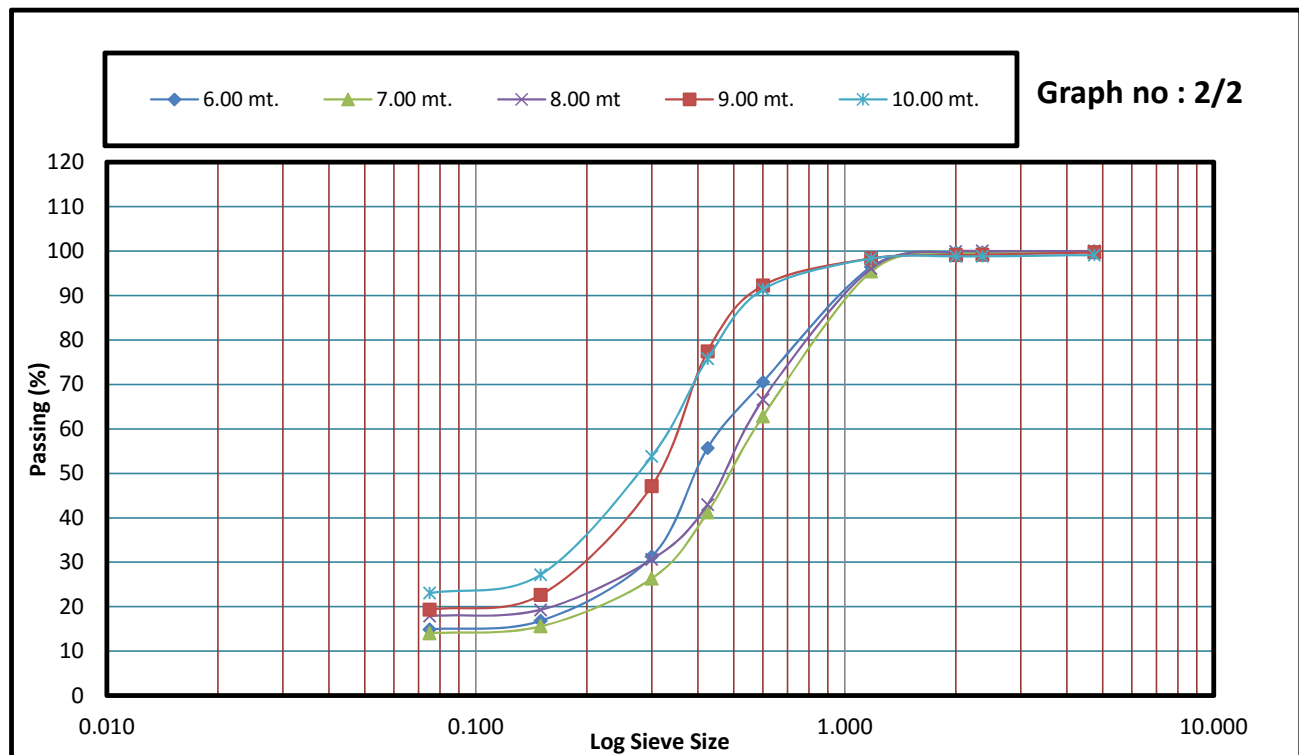
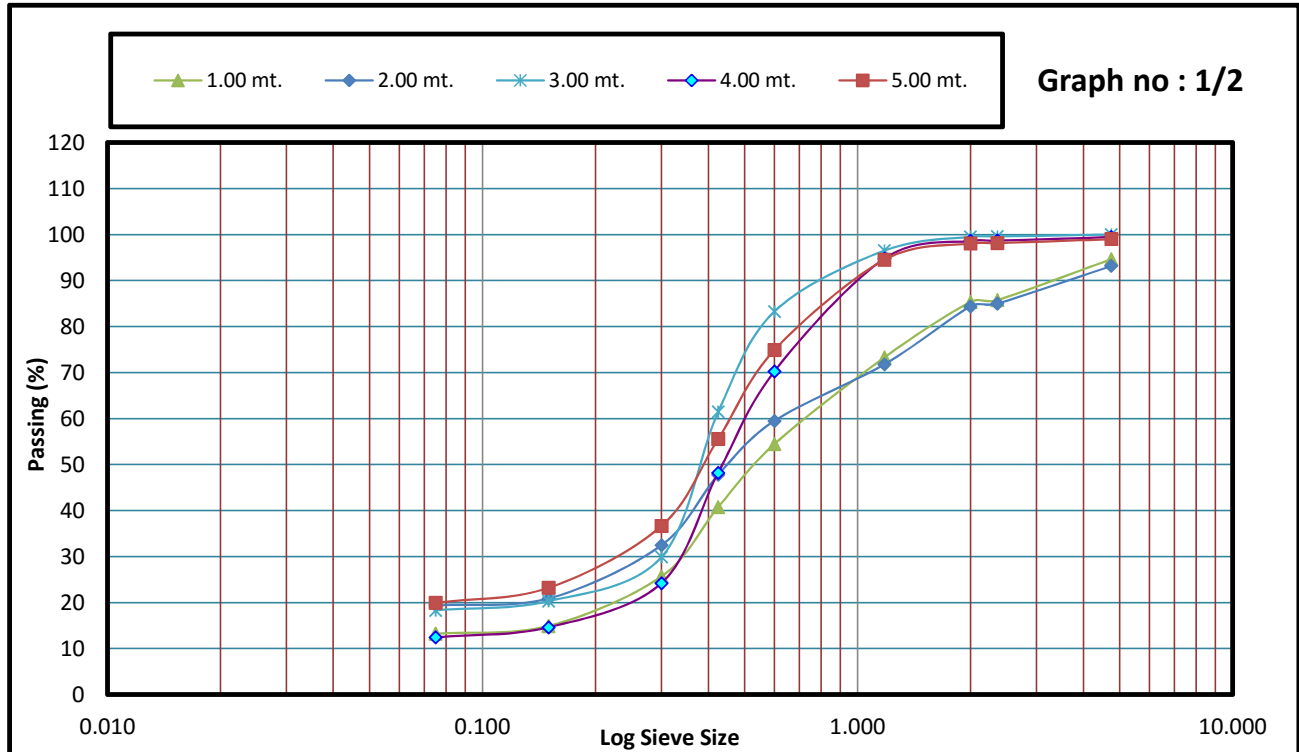
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:27, Alang/Sosiya, Gujarat.

**Plot No.:** 27





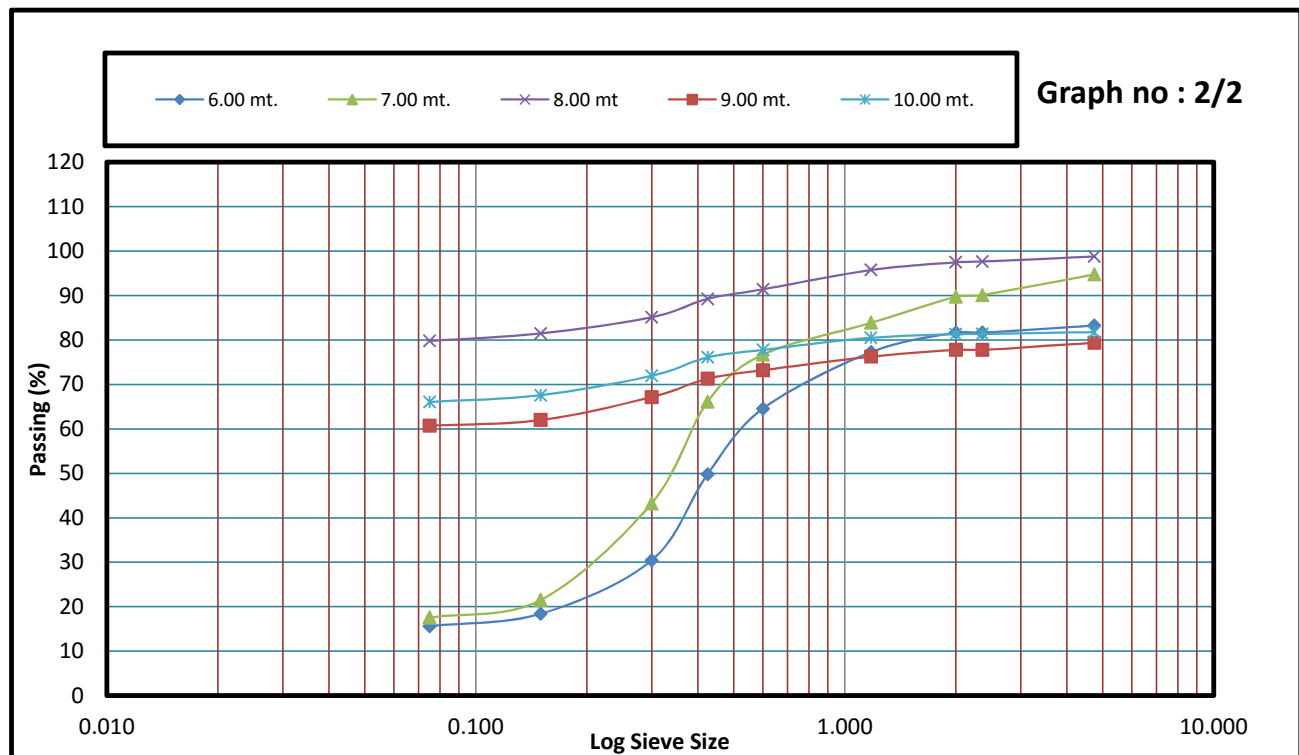
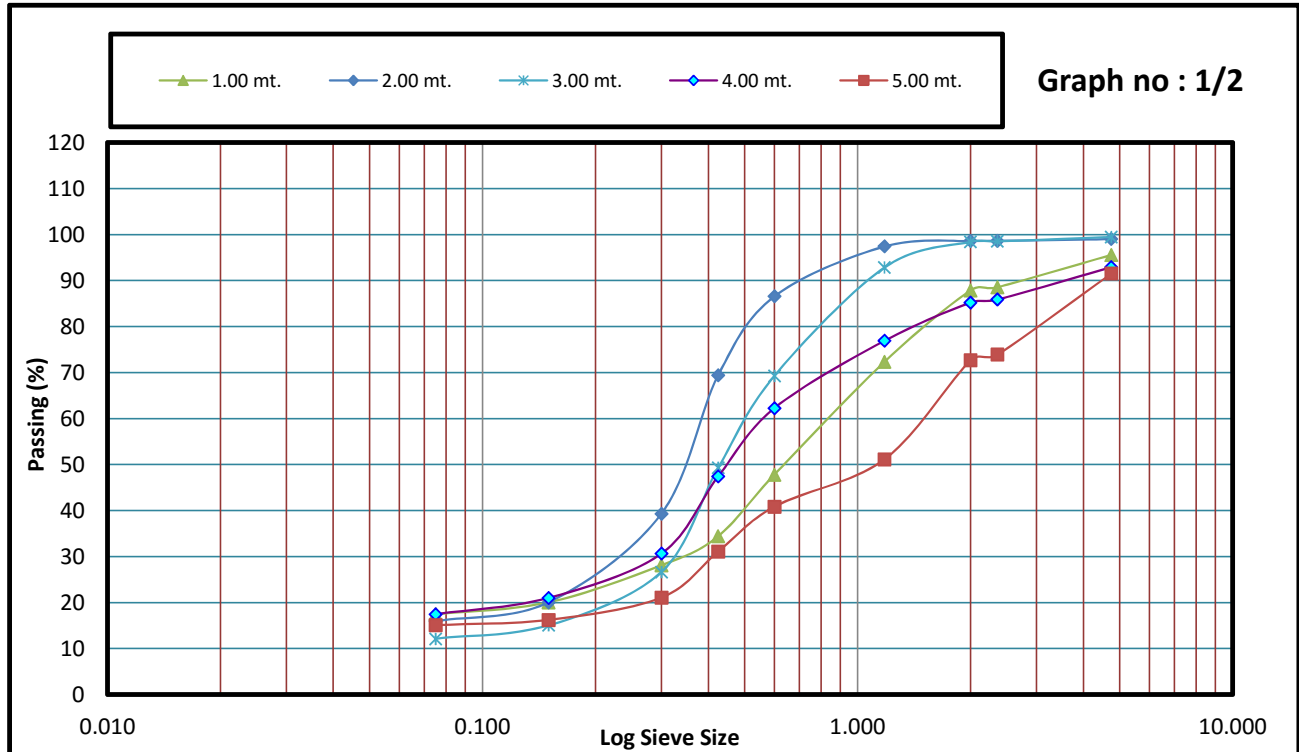
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:30, Alang/Sosiya, Gujarat.

**Plot No.:** 30



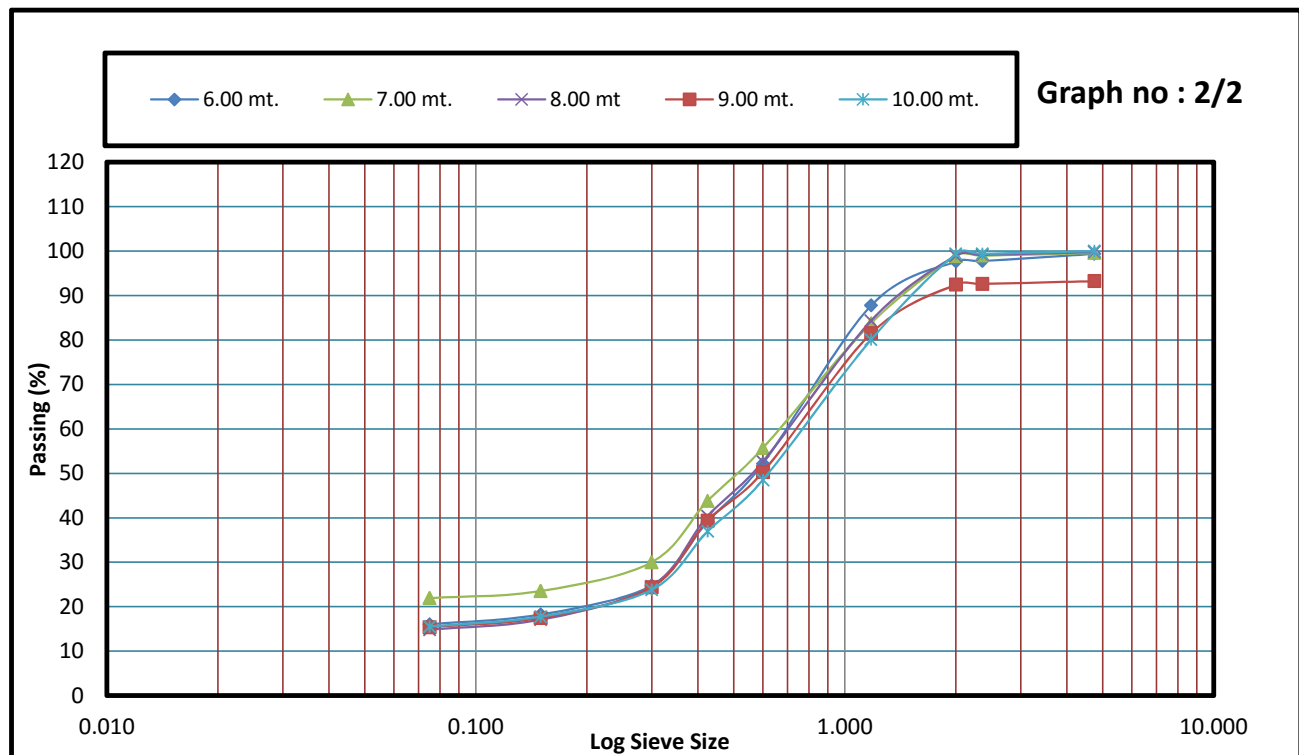
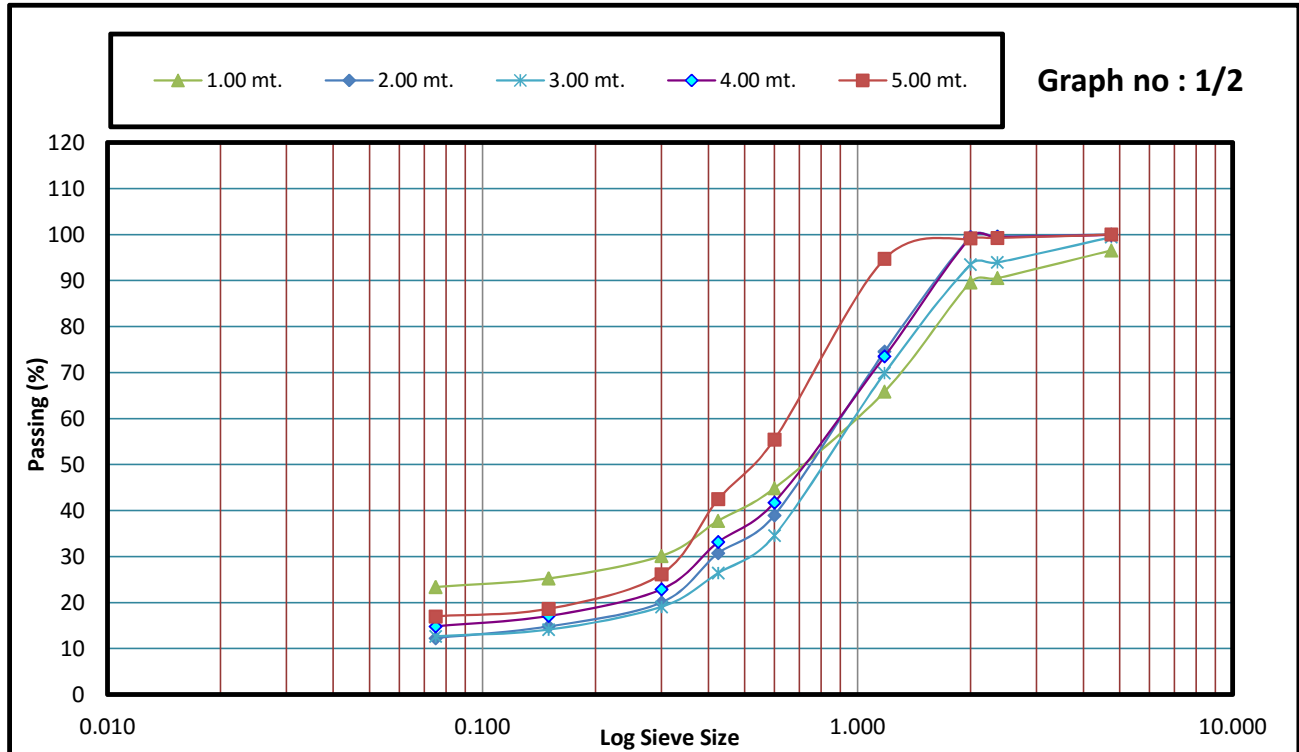
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:33, Alang/Sosiya, Gujarat.

**Plot No.:** 33



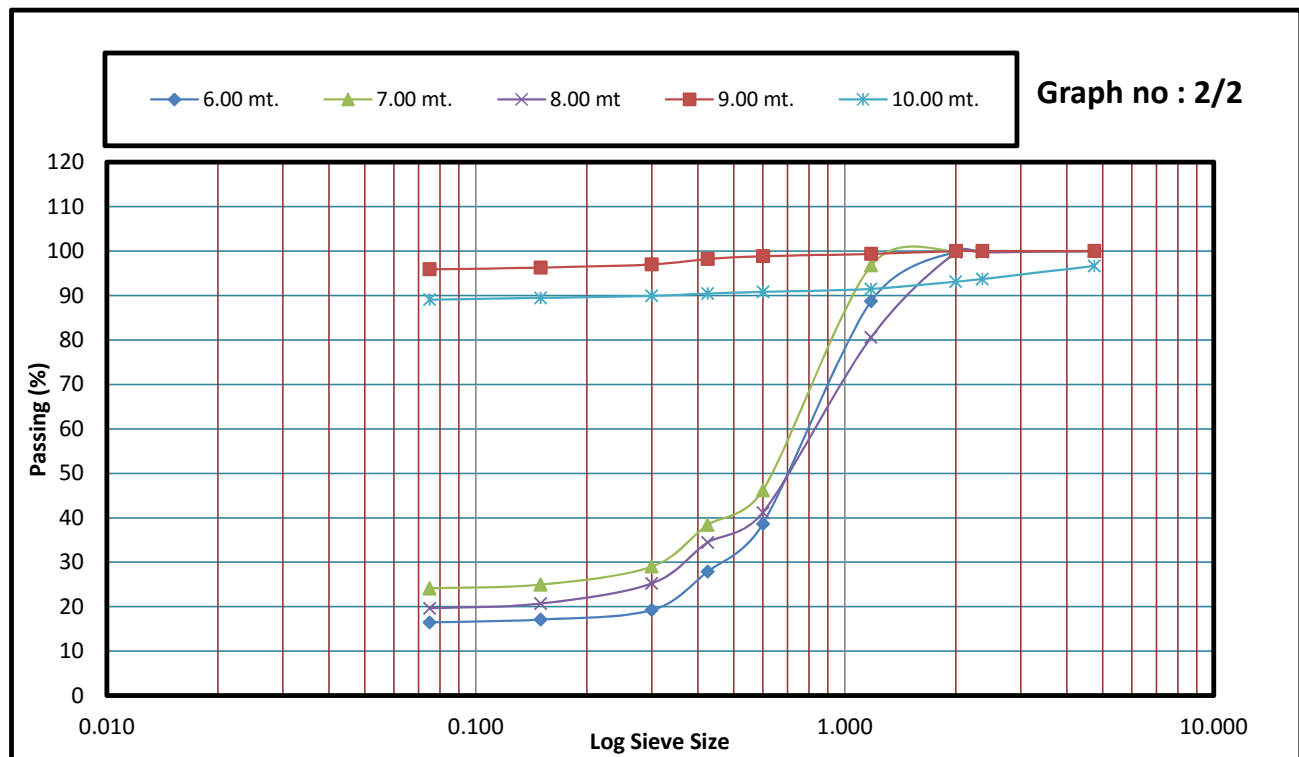
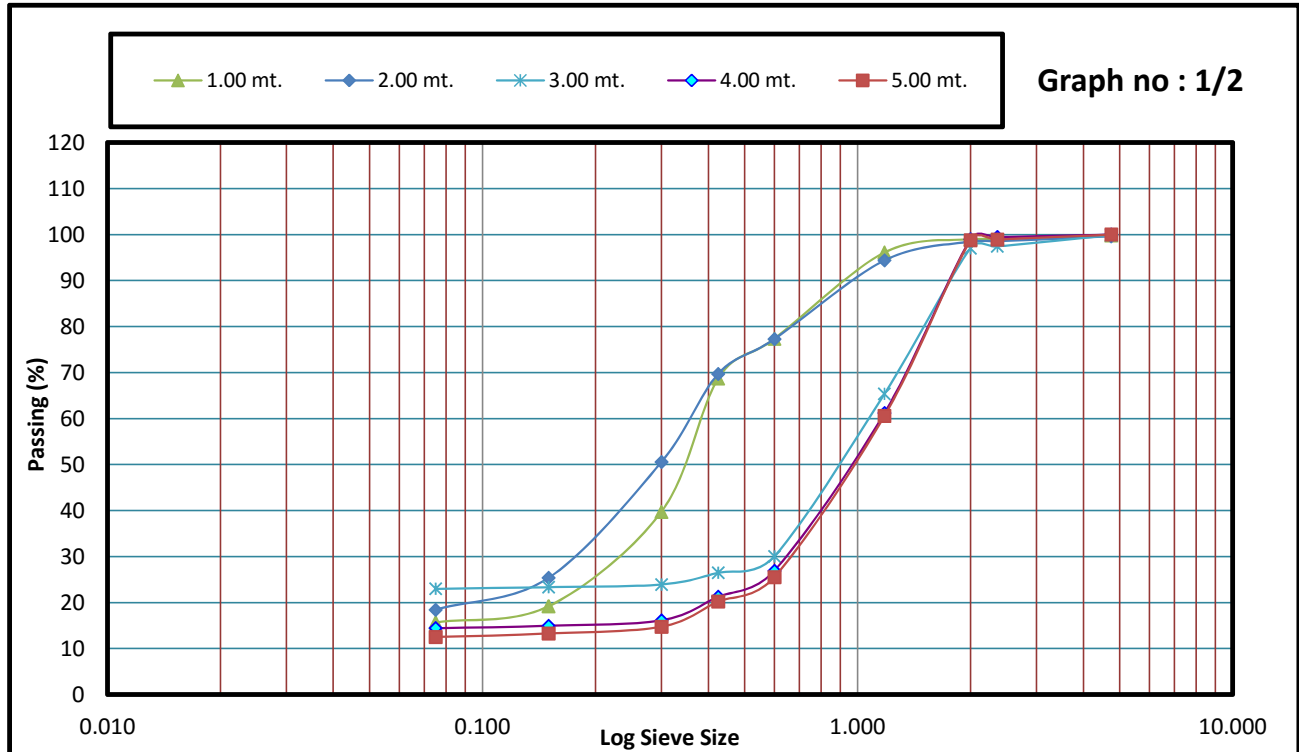
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:36, Alang/Sosiya, Gujarat.

**Plot No.:** 36



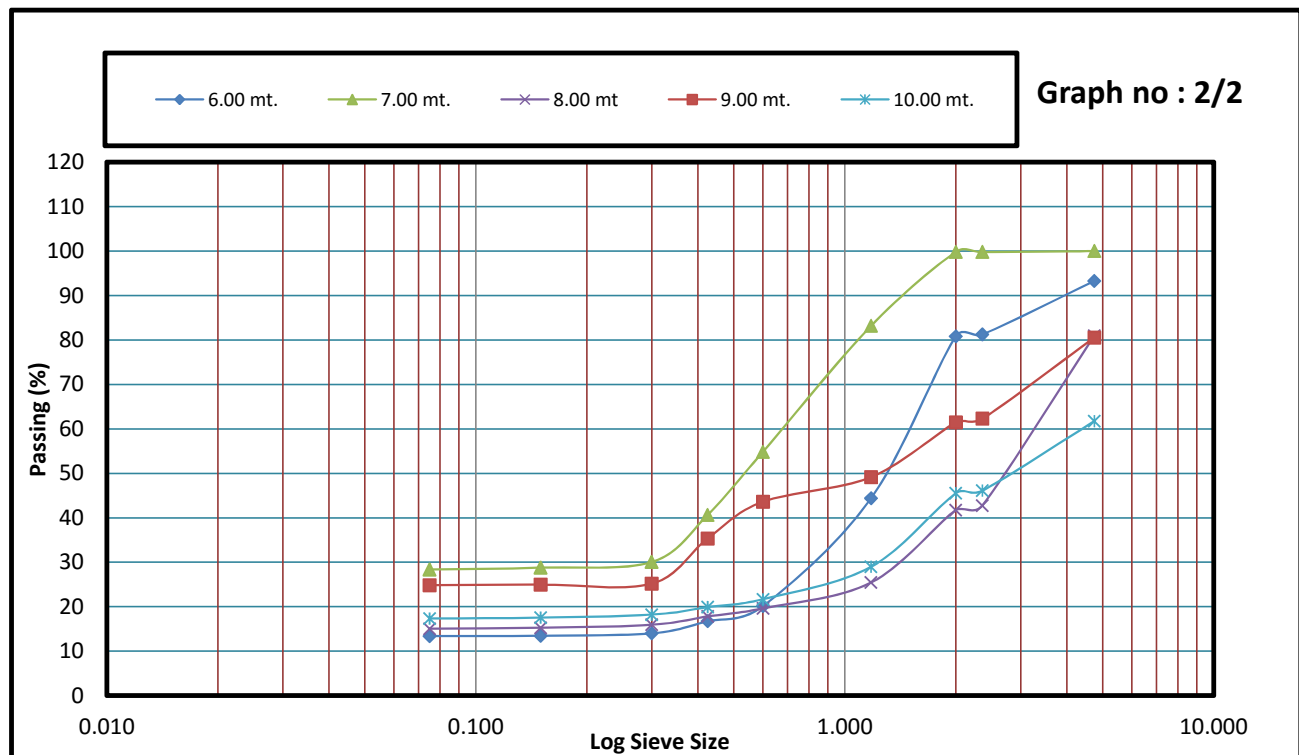
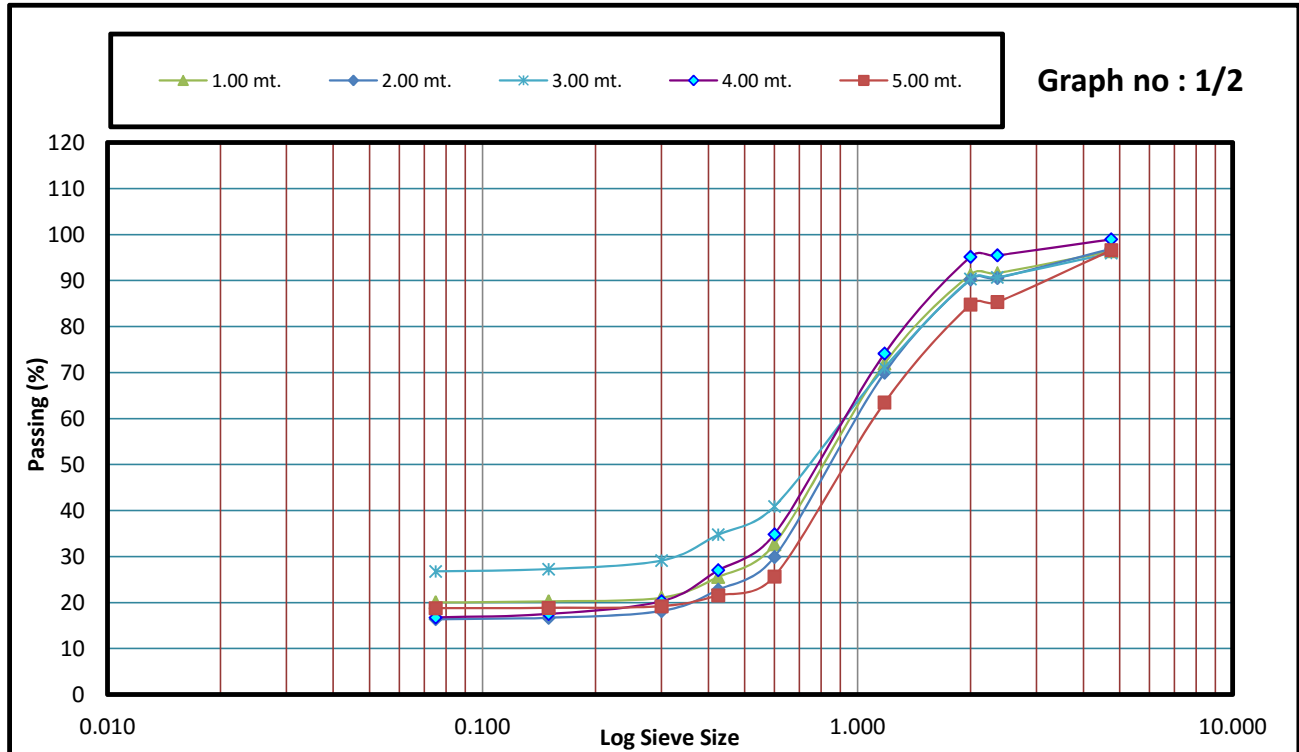
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:39, Alang/Sosiya, Gujarat.

**Plot No.:** 39



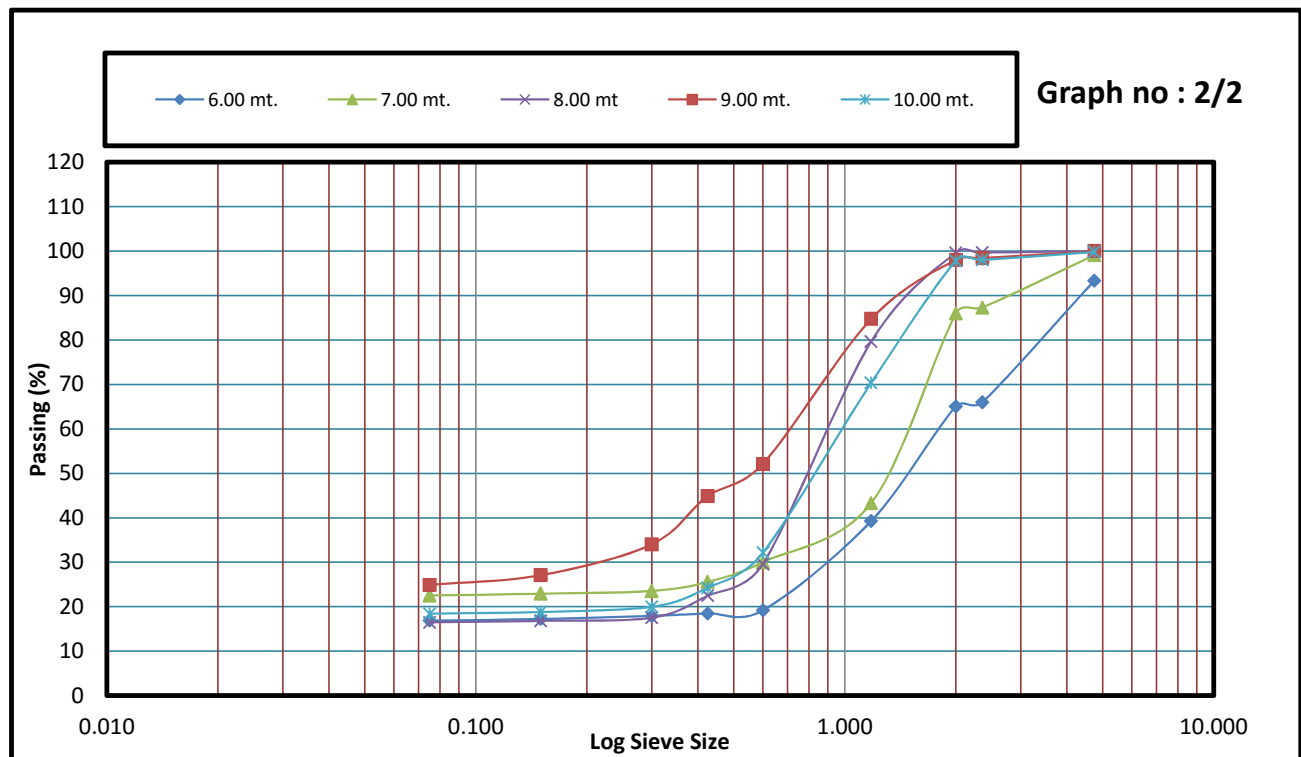
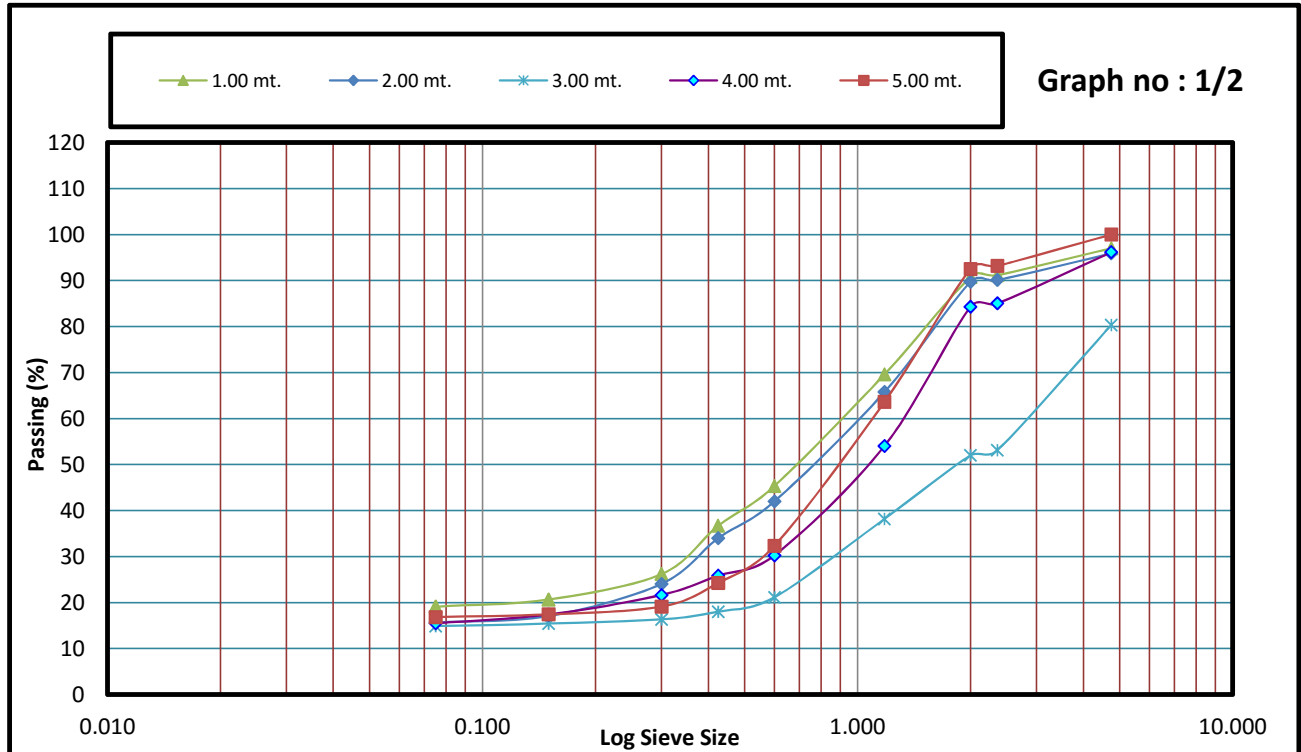
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:42, Alang/Sosiya, Gujarat.

**Plot No.:** 42



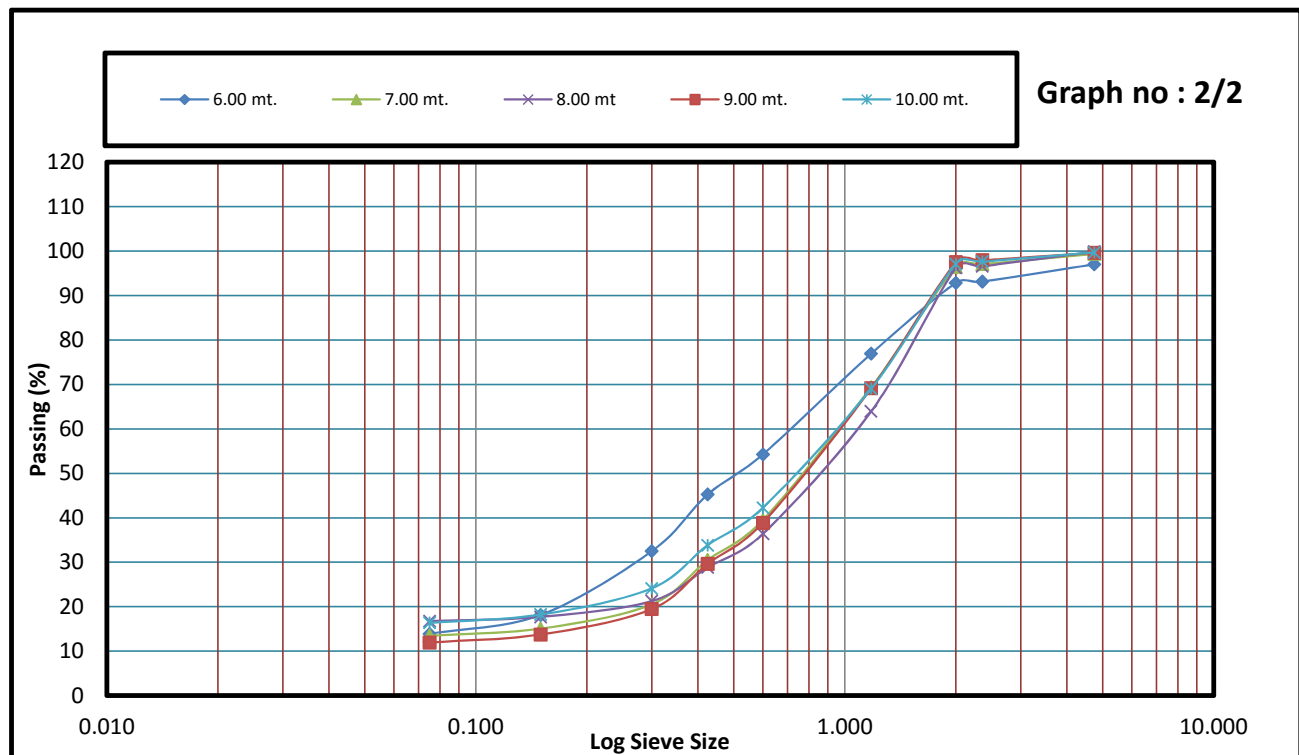
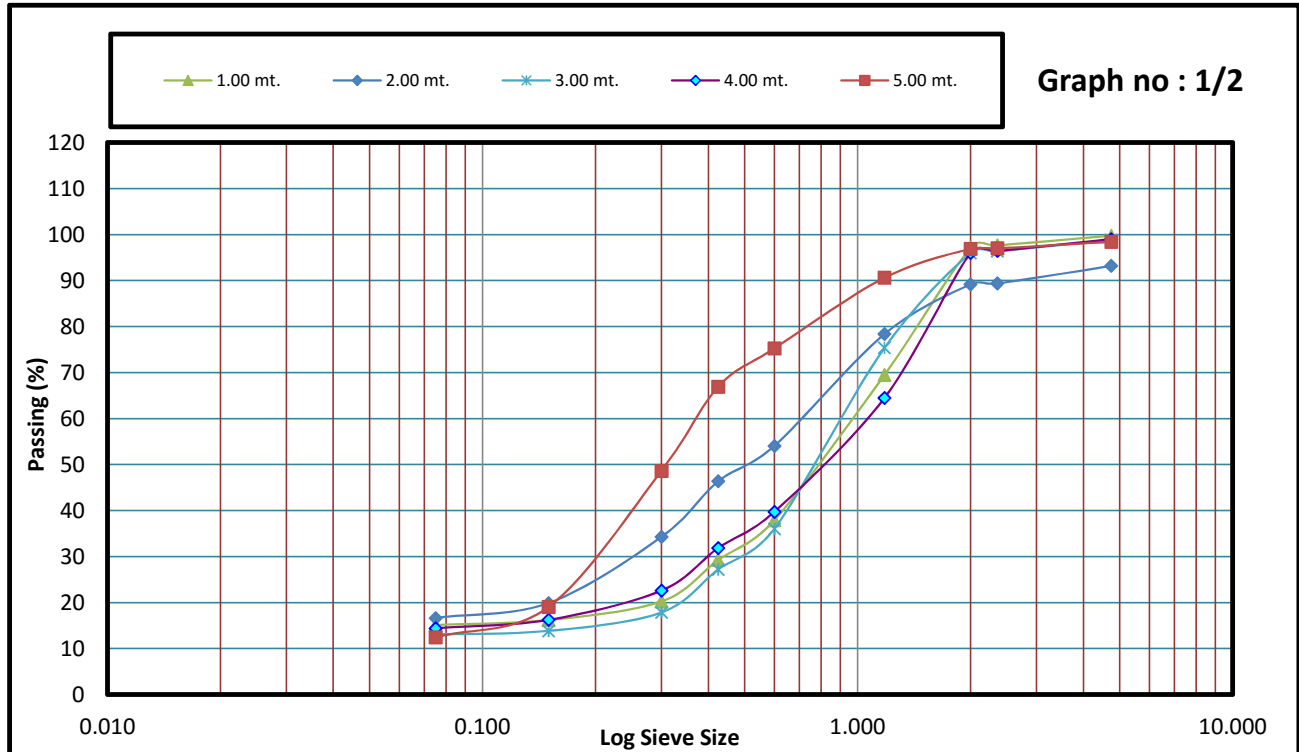
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:44, Alang/Sosiya, Gujarat.

**Plot No.:** 44



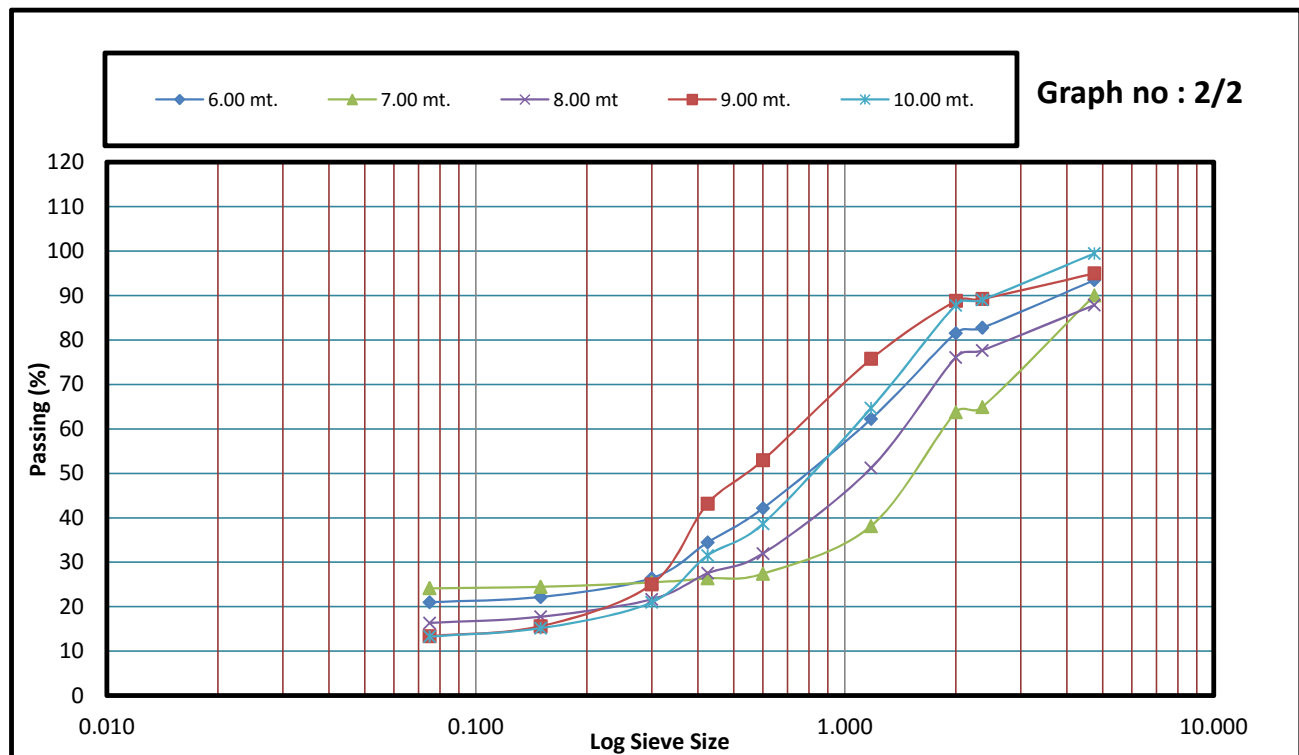
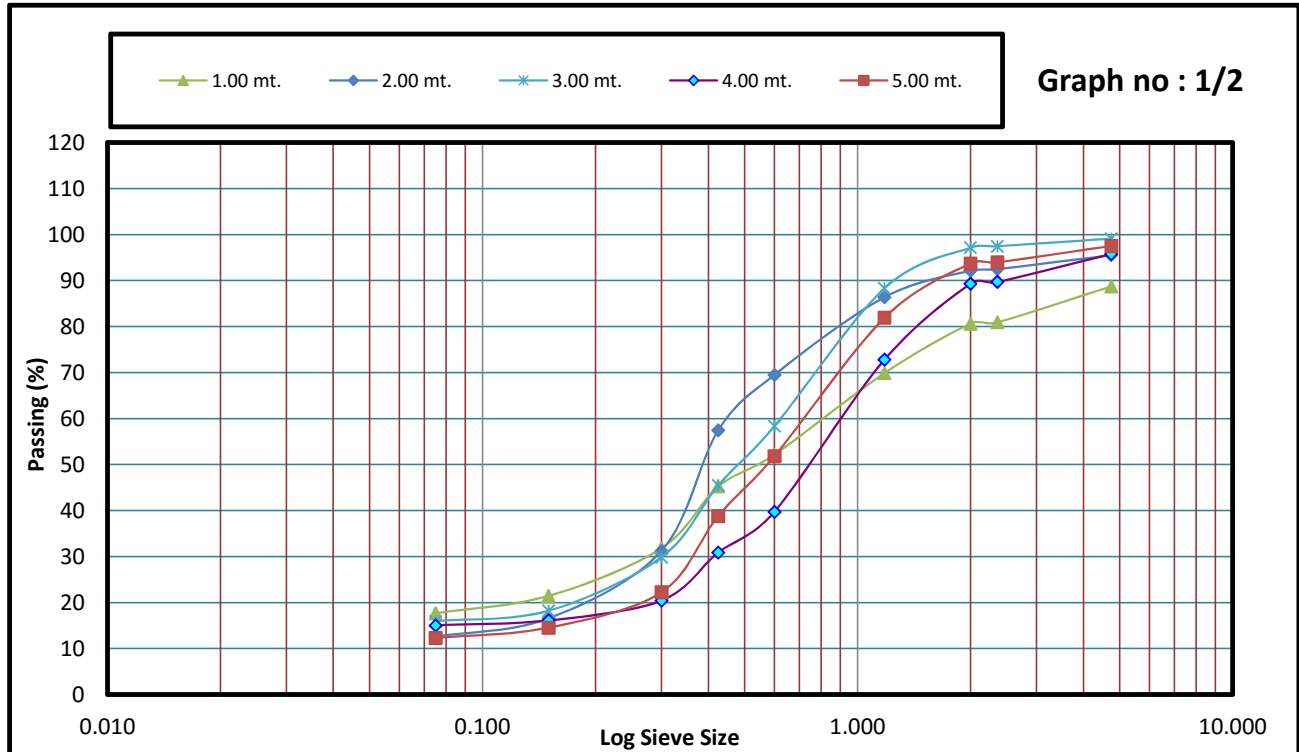
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:46, Alang/Sosiya, Gujarat.

**Plot No.:** 46



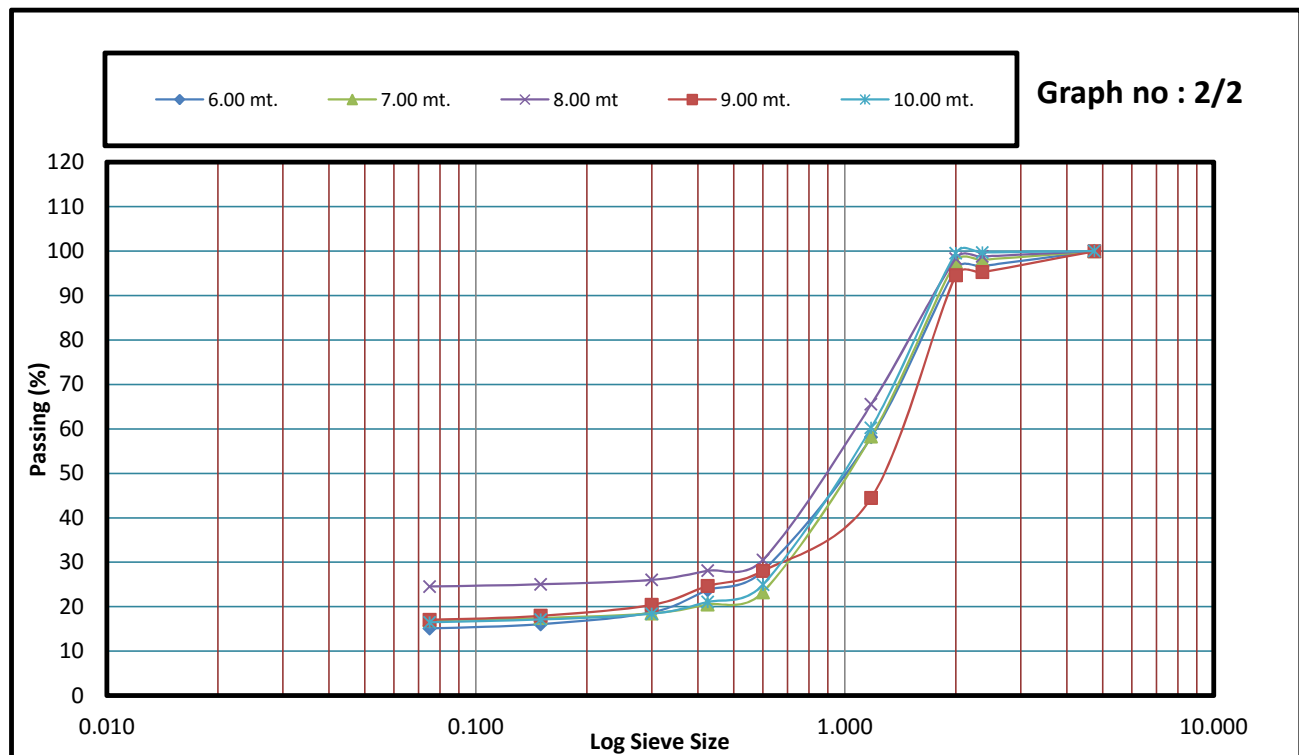
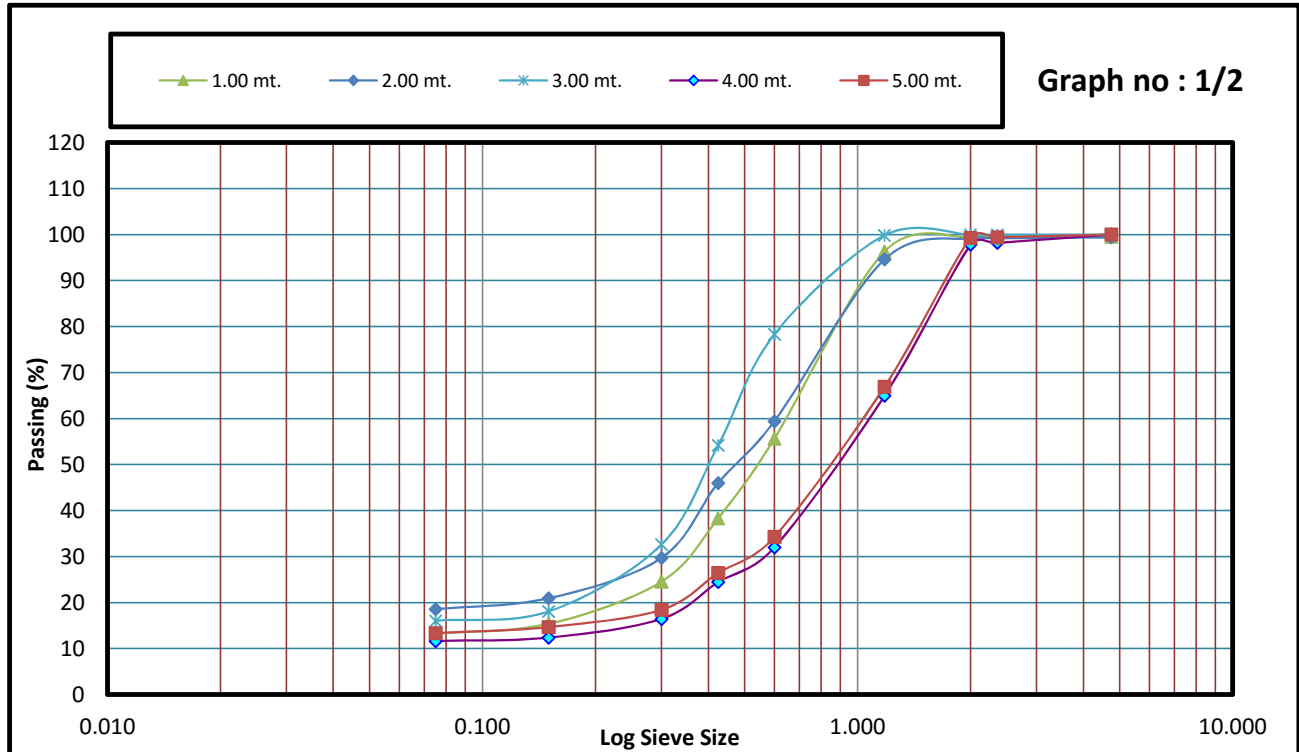
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:47, Alang/Sosiya, Gujarat.

**Plot No.:** 47





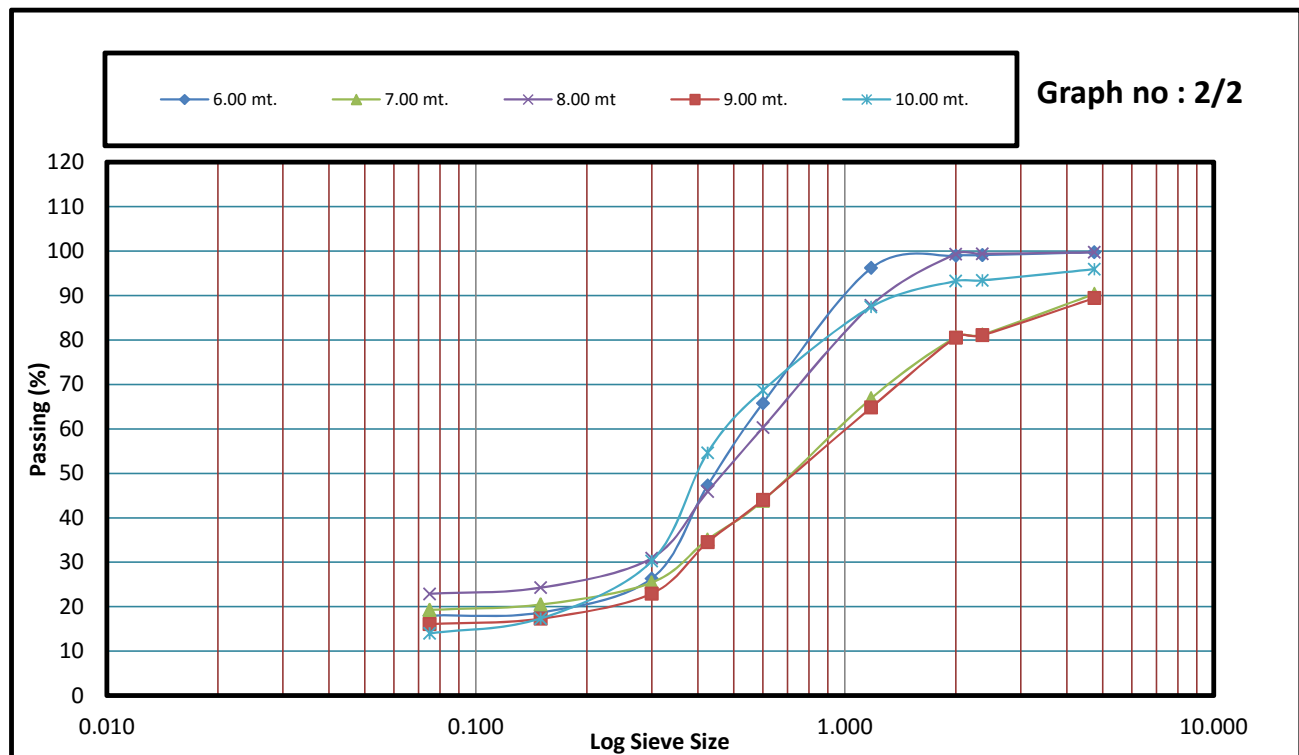
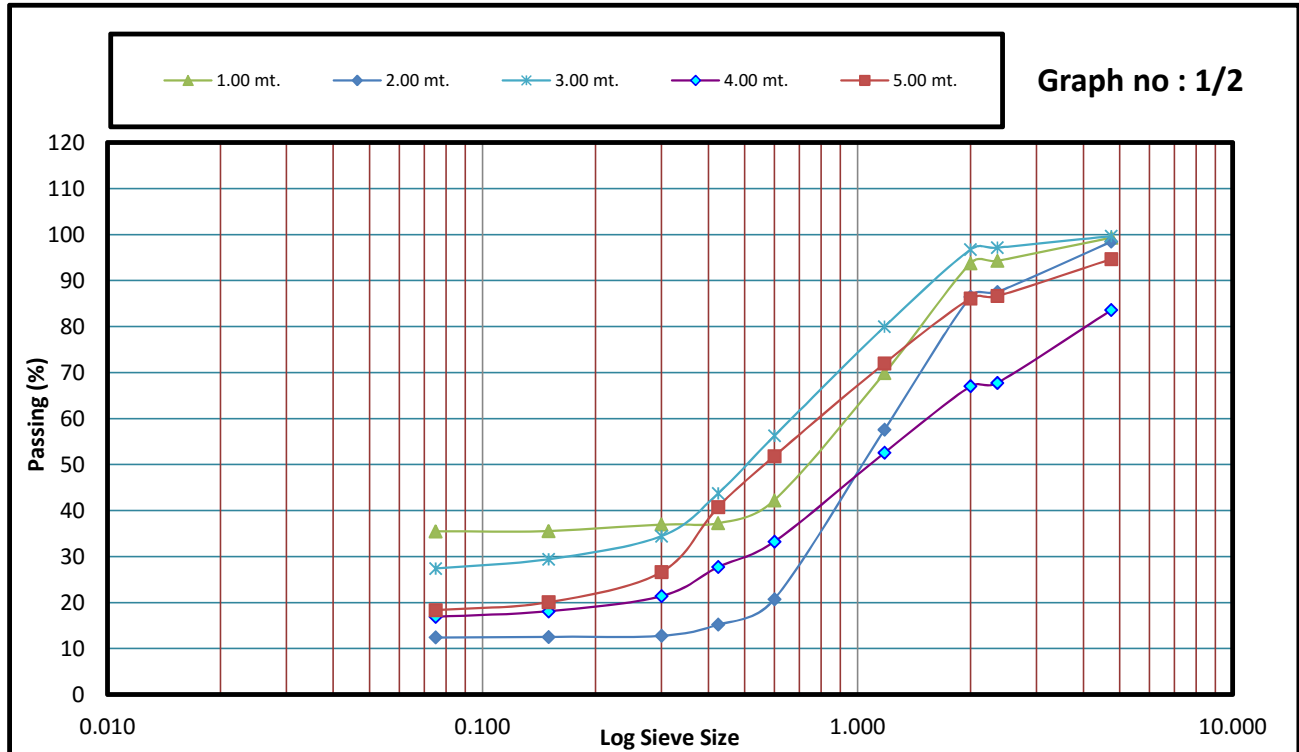
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:51, Alang/Sosiya, Gujarat.

**Plot No.:** 51



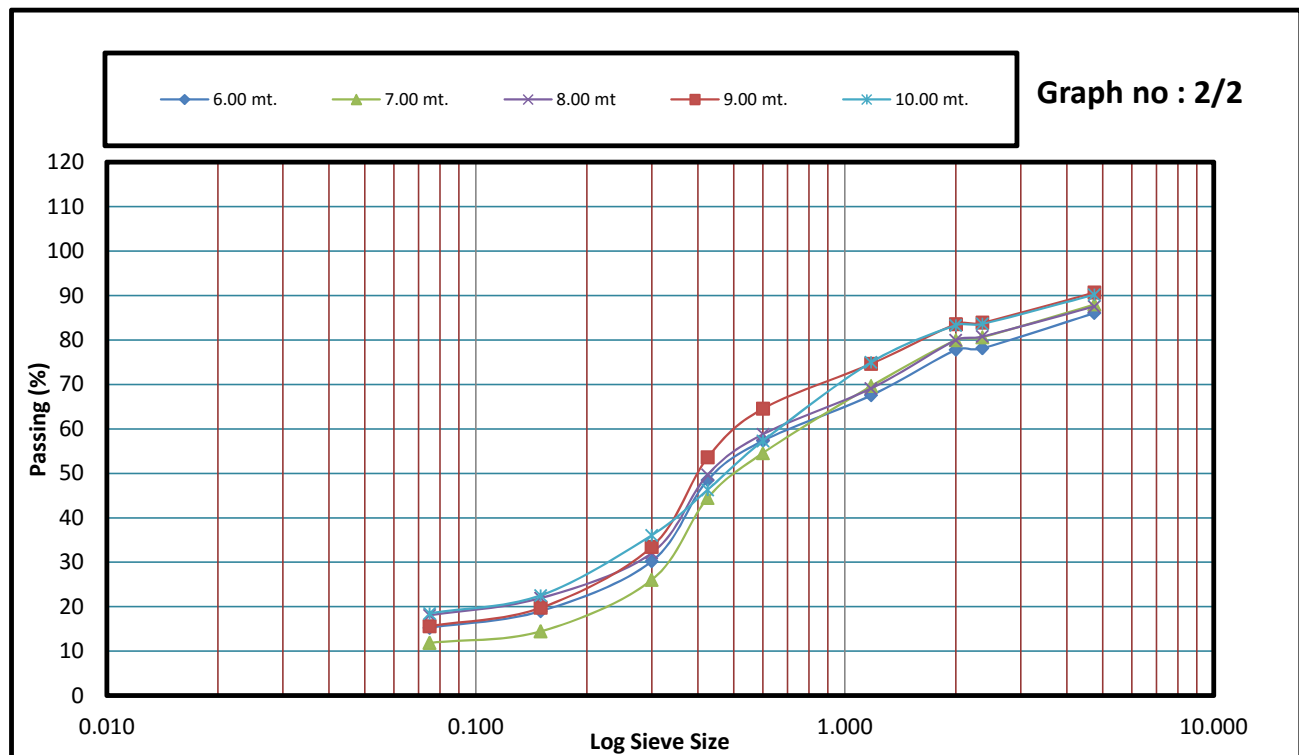
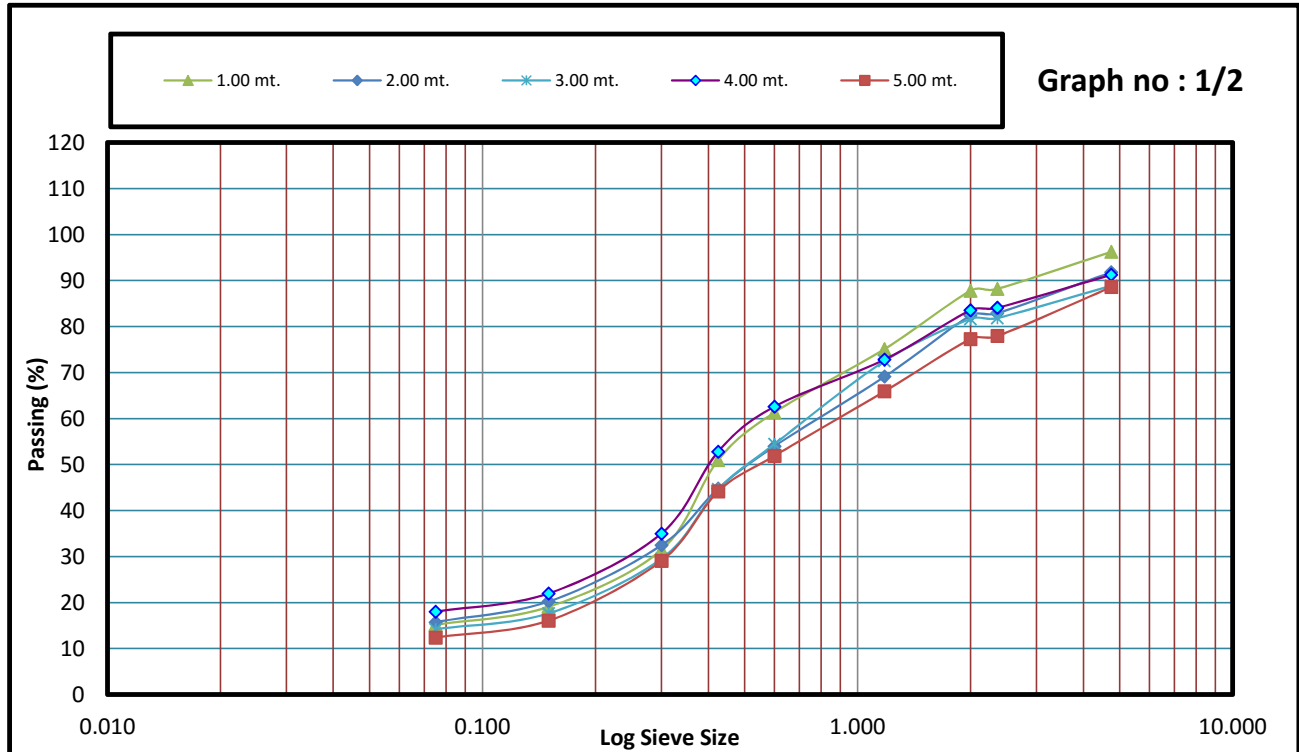
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:54, Alang/Sosiya, Gujarat.

**Plot No.:** 54



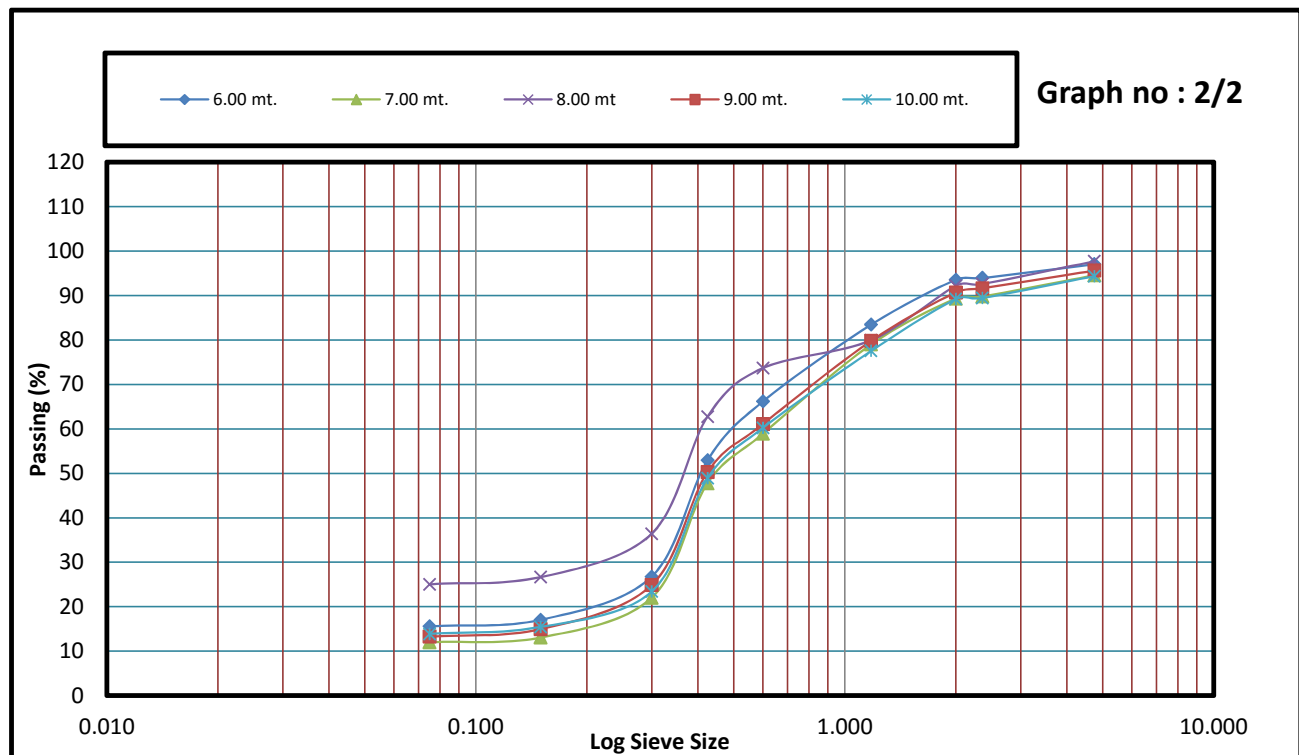
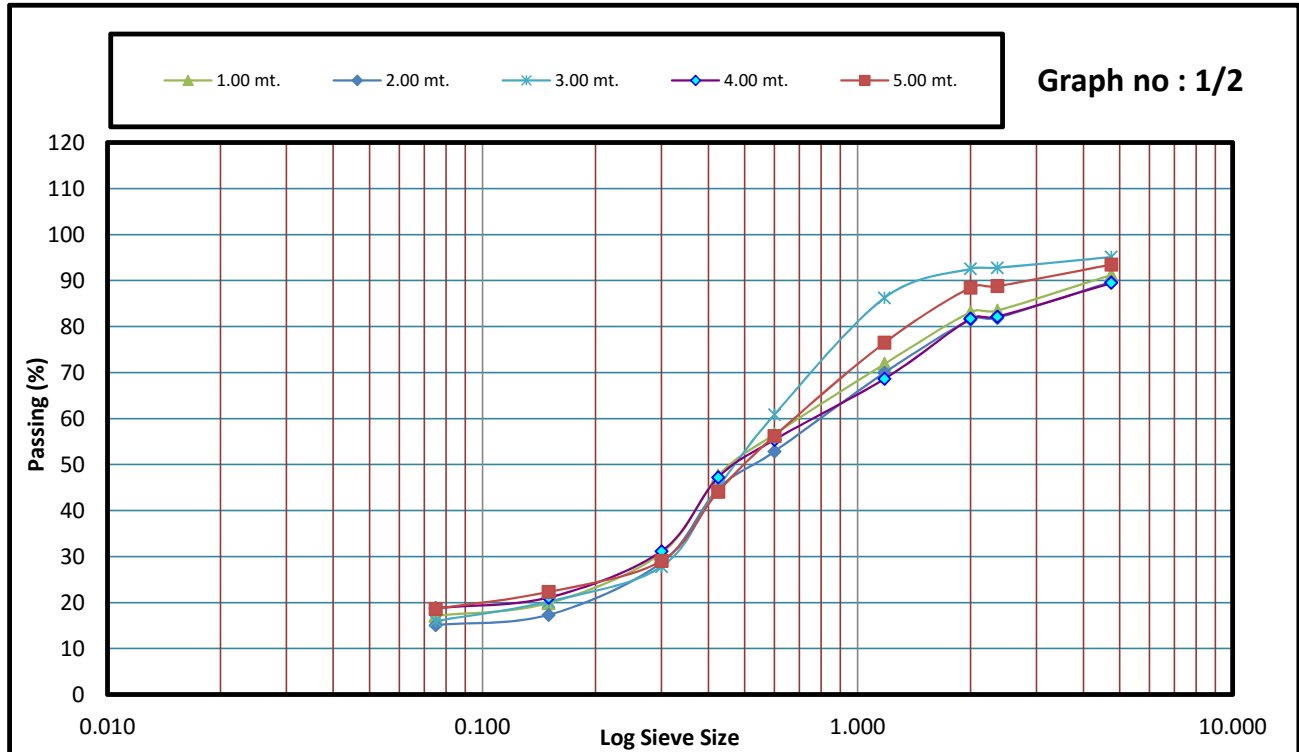
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:87, Alang/Sosiya, Gujarat.

**Plot No.:** 87



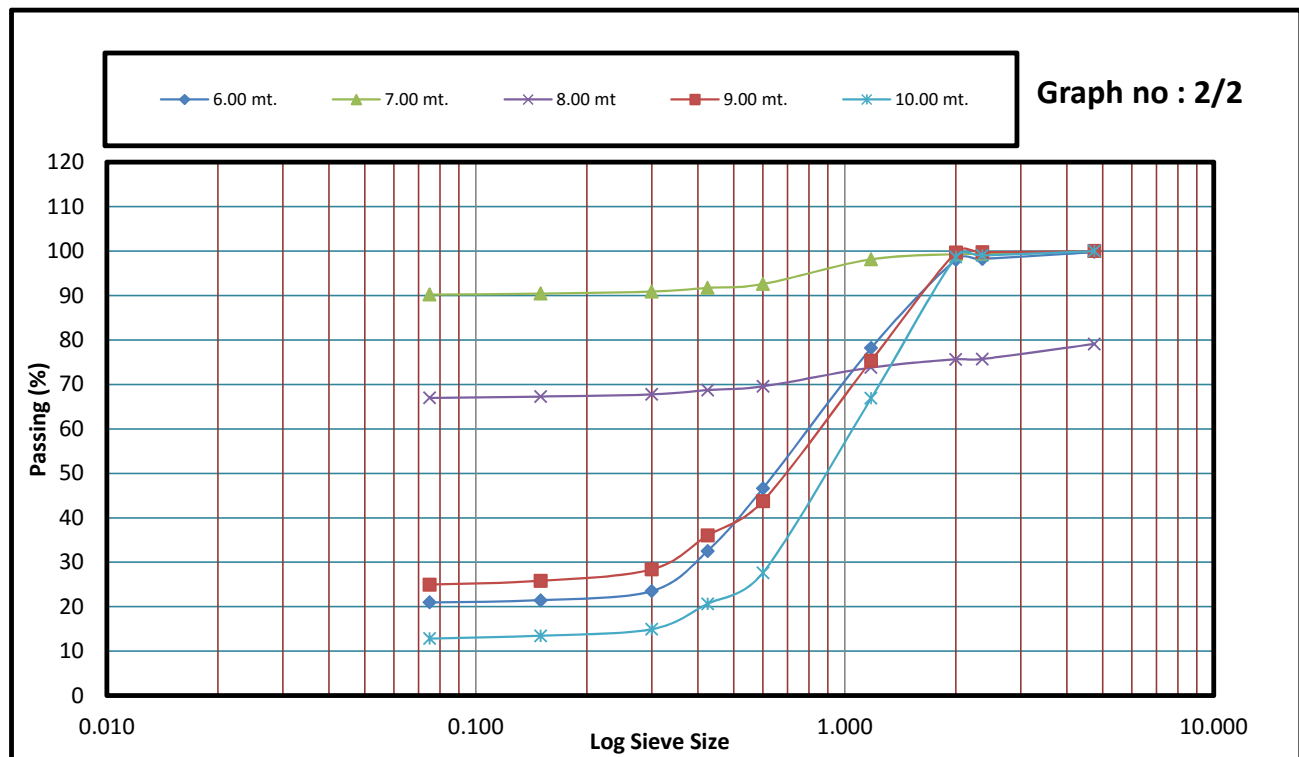
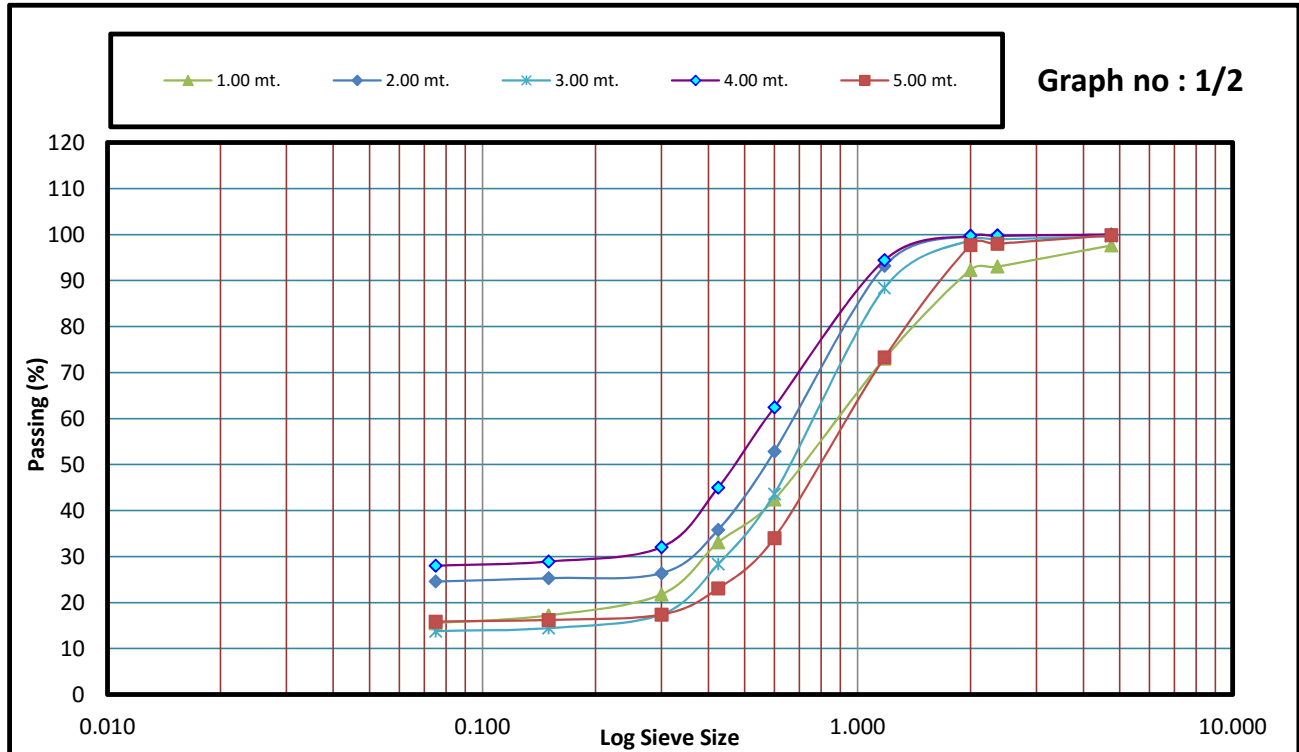
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:88, Alang/Sosiya, Gujarat.

**Plot No.:** 88



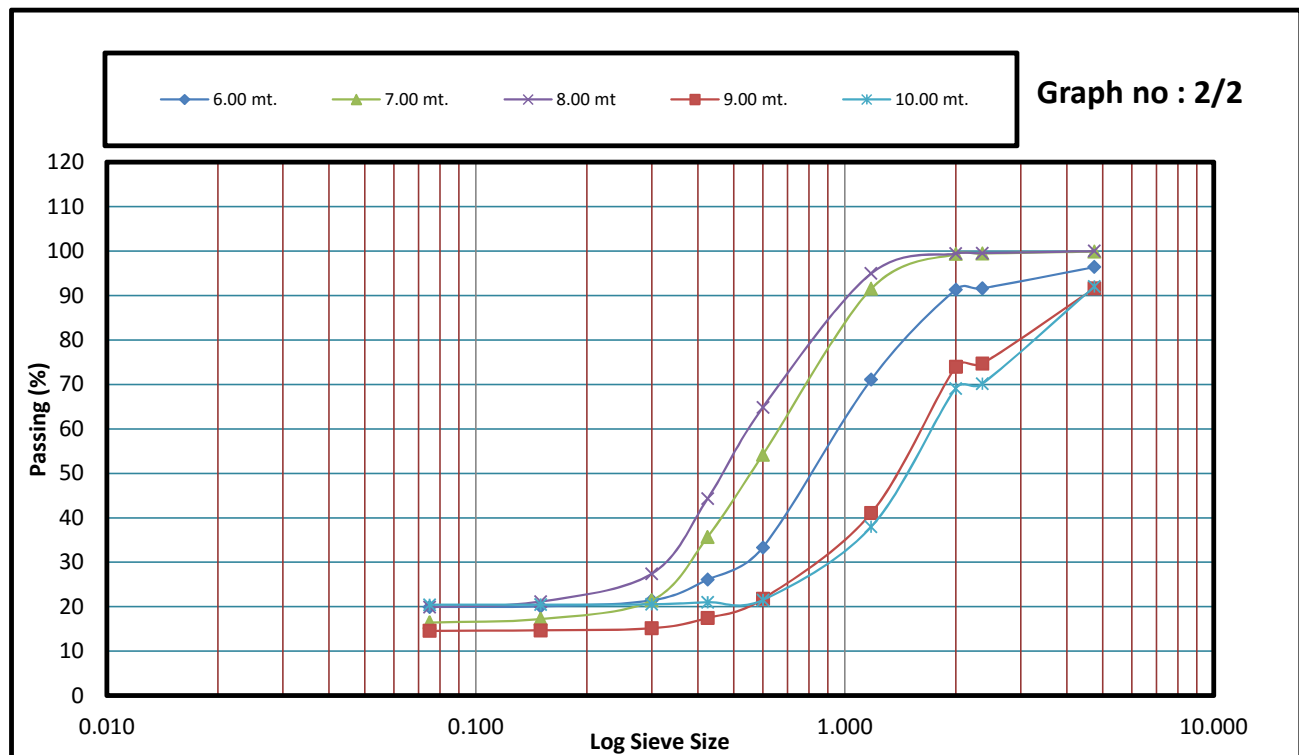
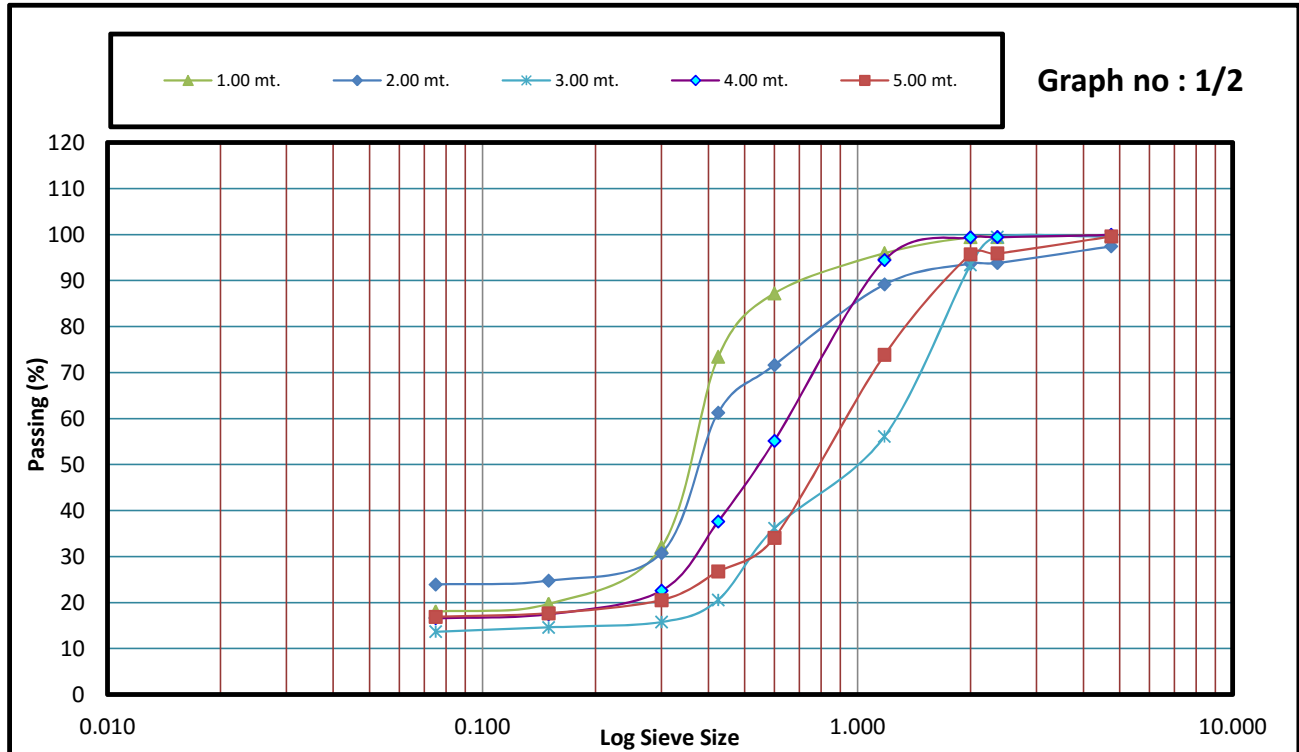
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:91, Alang/Sosiya, Gujarat.

**Plot No.:** 91



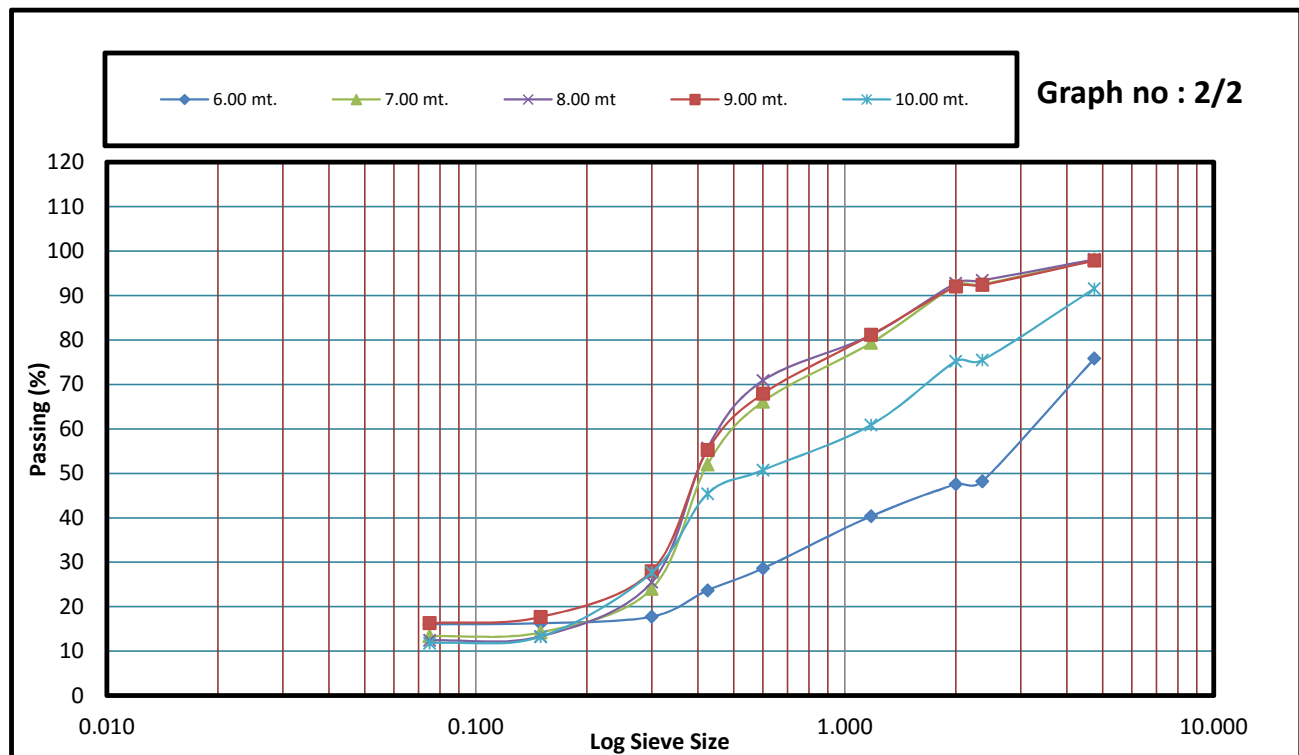
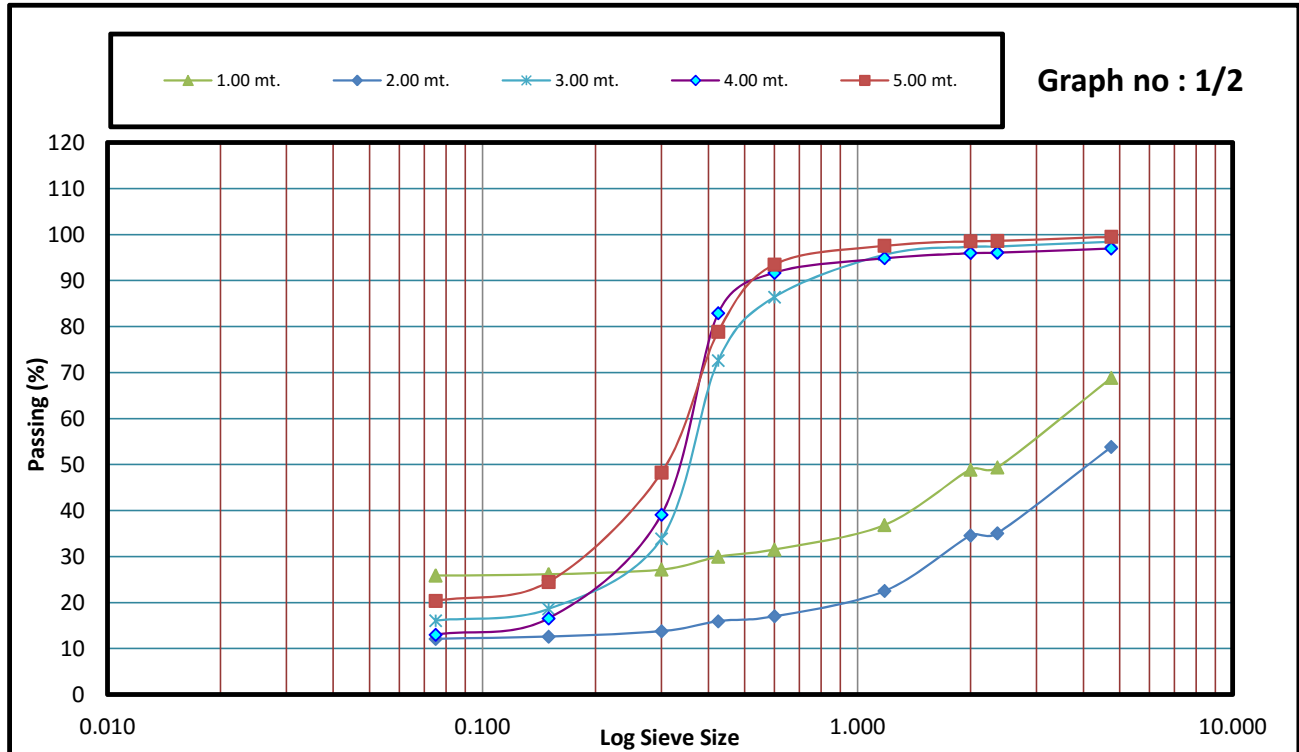
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:93, Alang/Sosiya, Gujarat.

**Plot No.:** 93



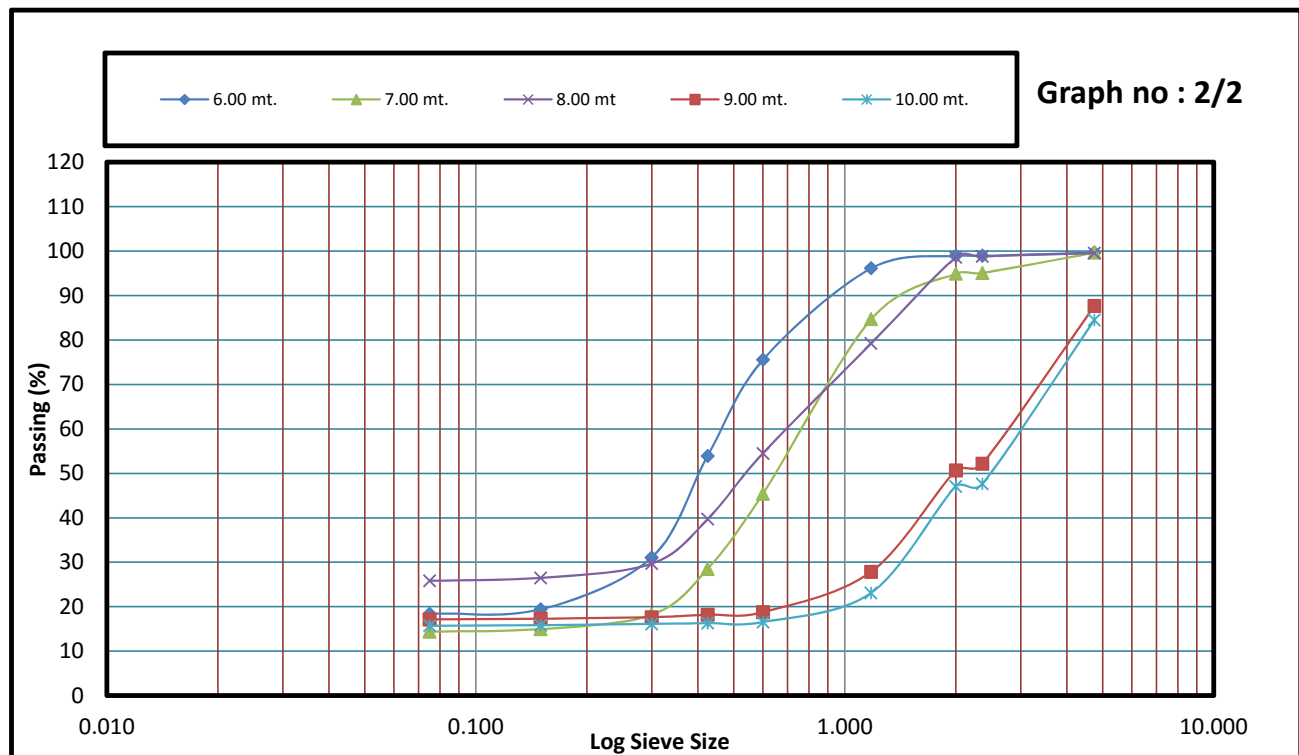
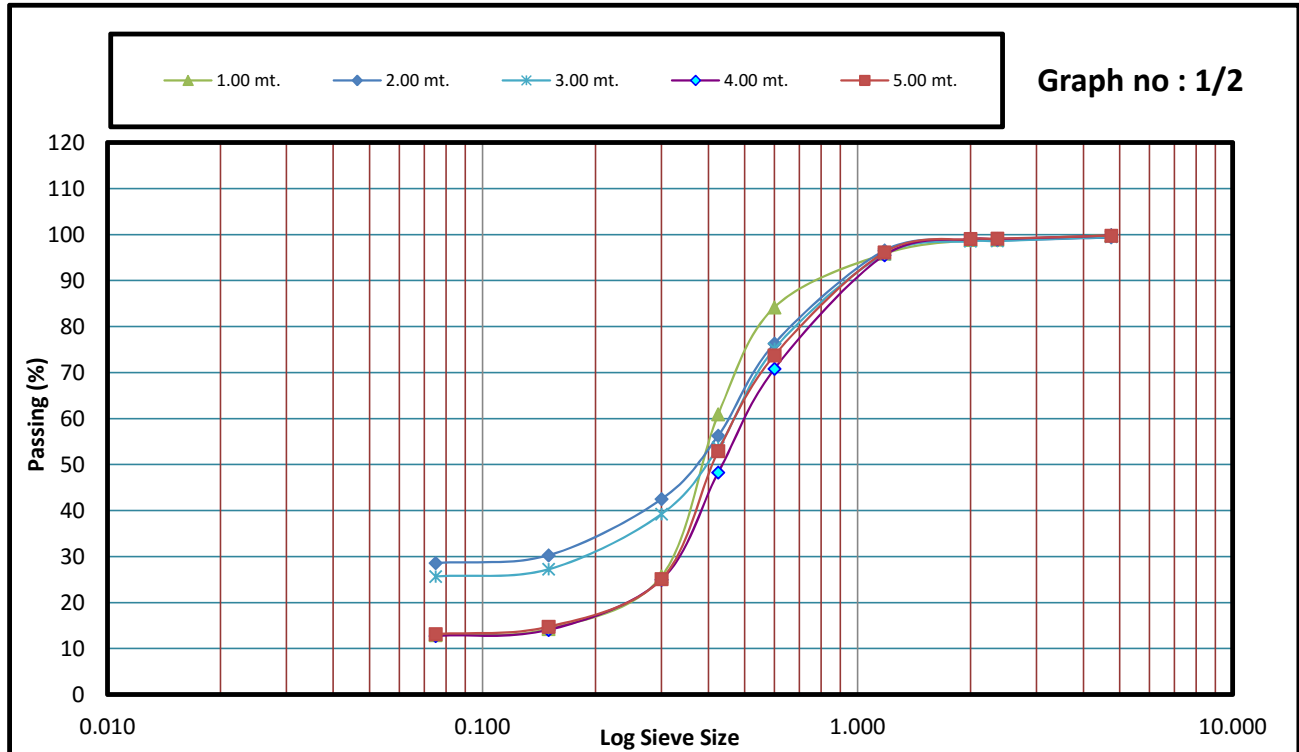
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:96, Alang/Sosiya, Gujarat.

**Plot No.:** 96



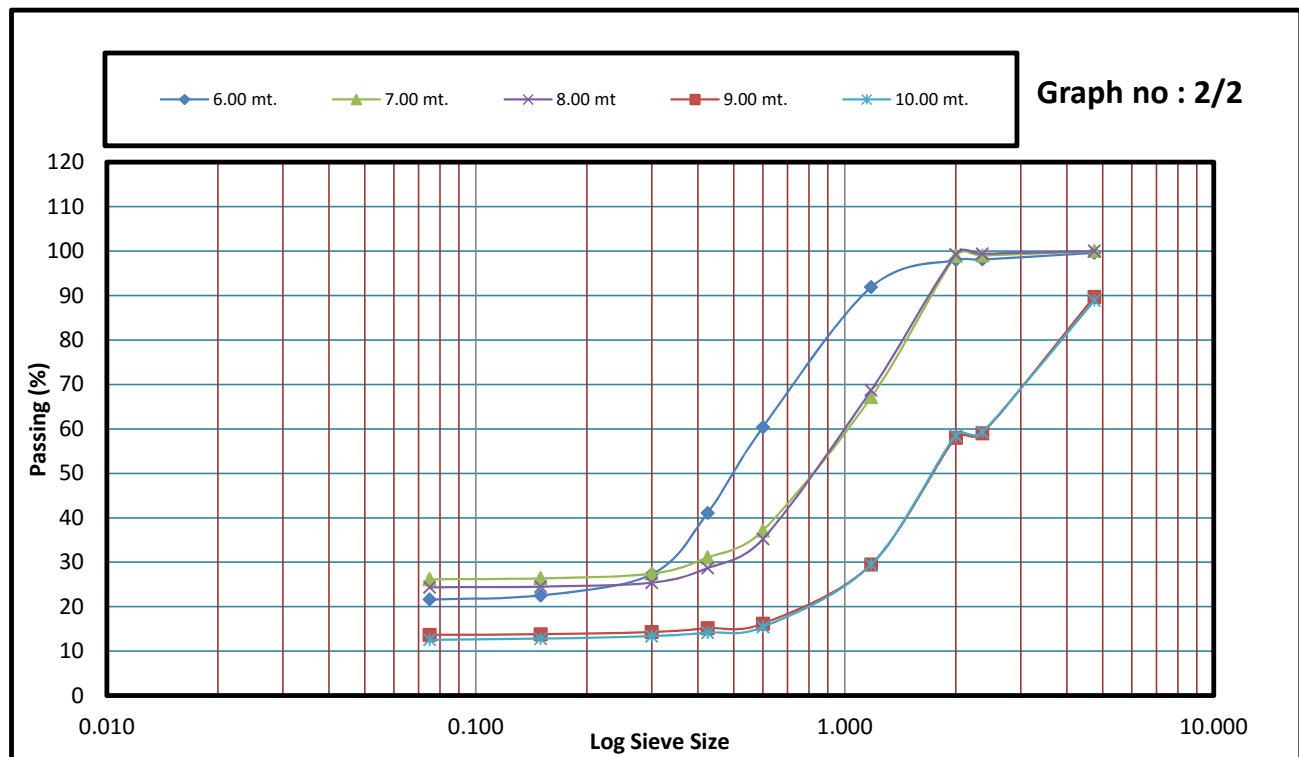
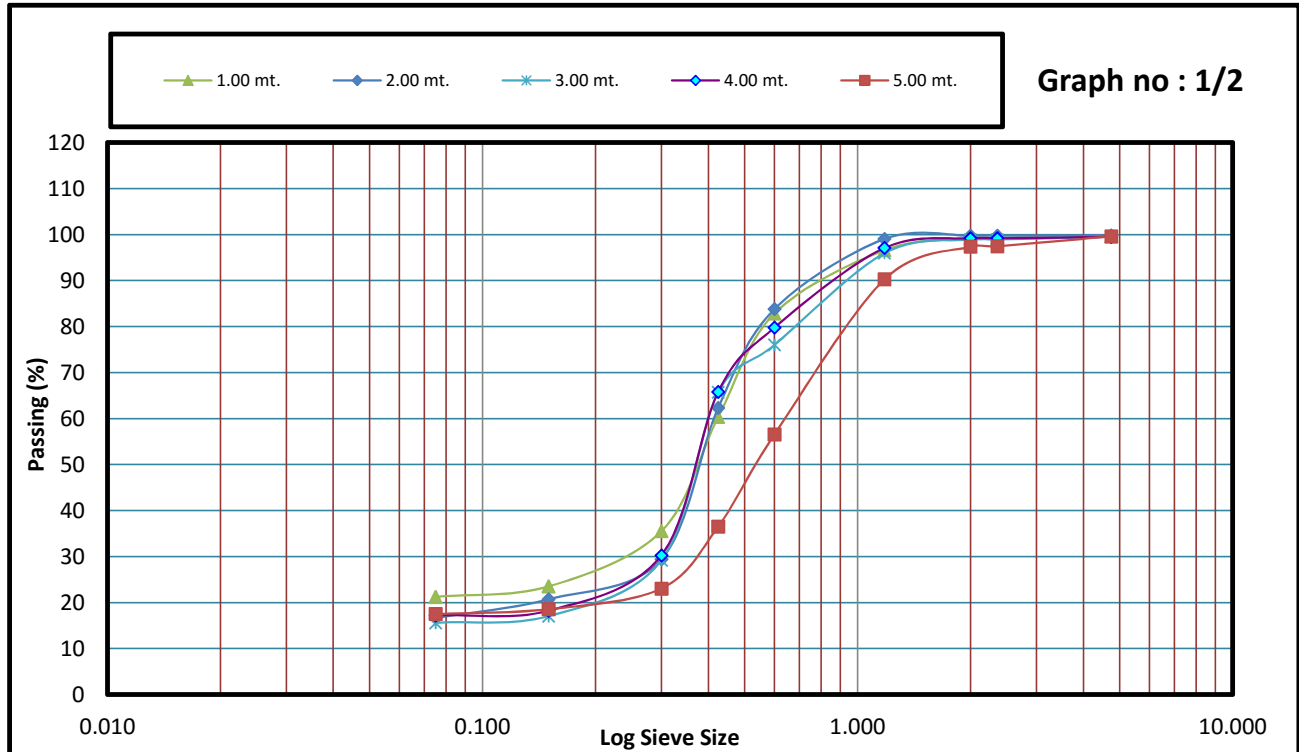
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:98, Alang/Sosiya, Gujarat.

**Plot No.:** 98





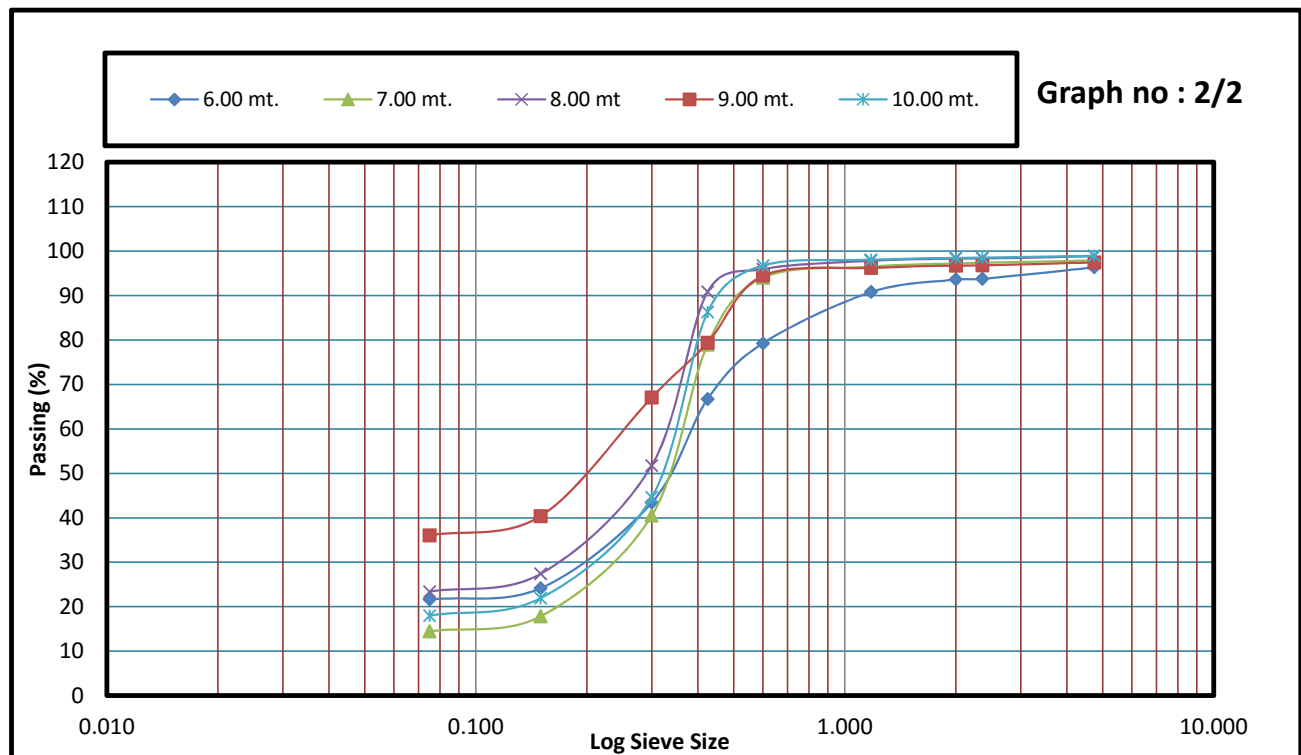
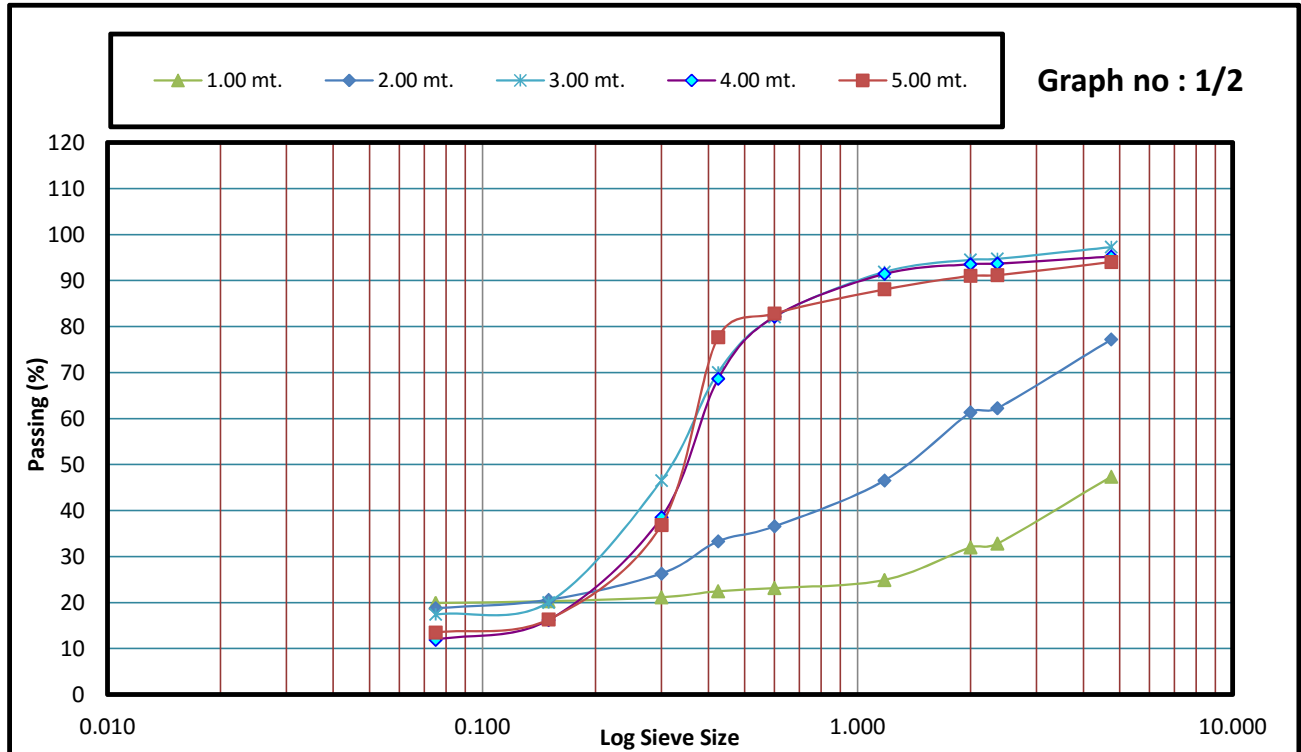
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:100, Alang/Sosiya, Gujarat.

**Plot No.:** 100



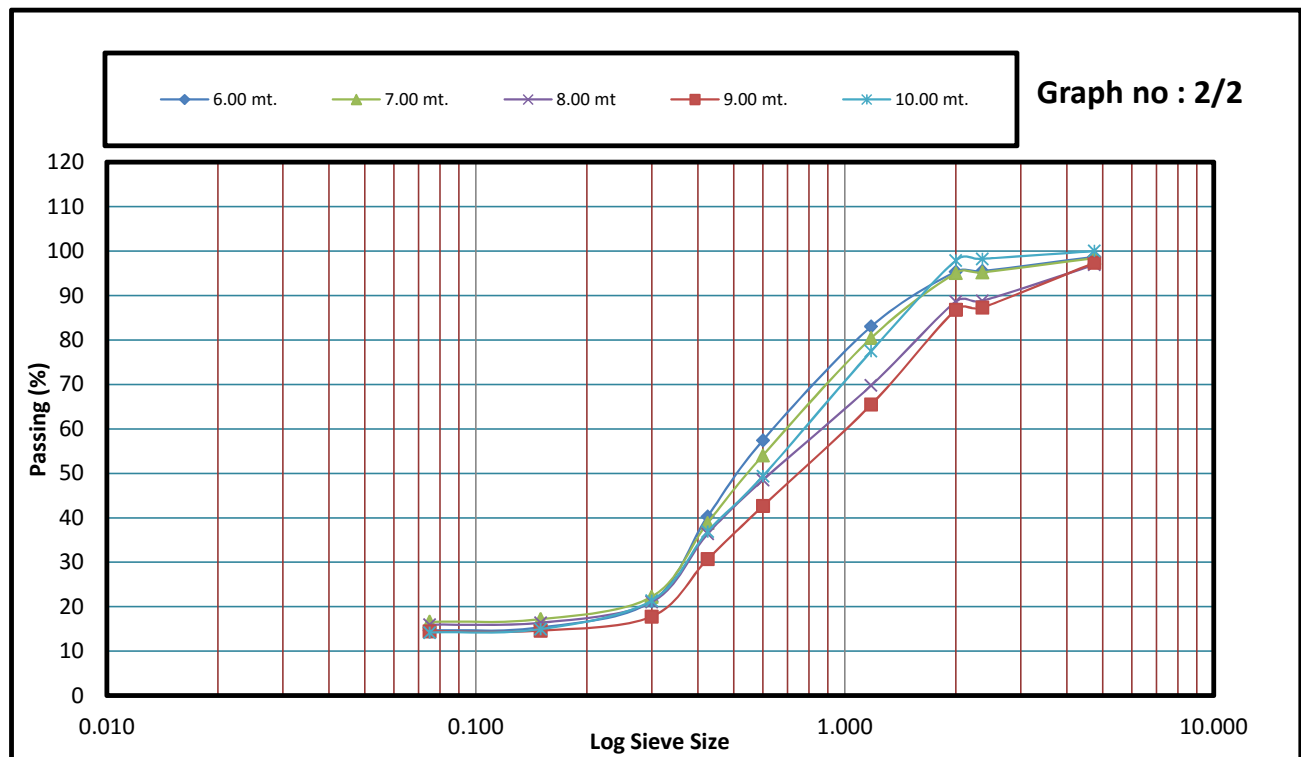
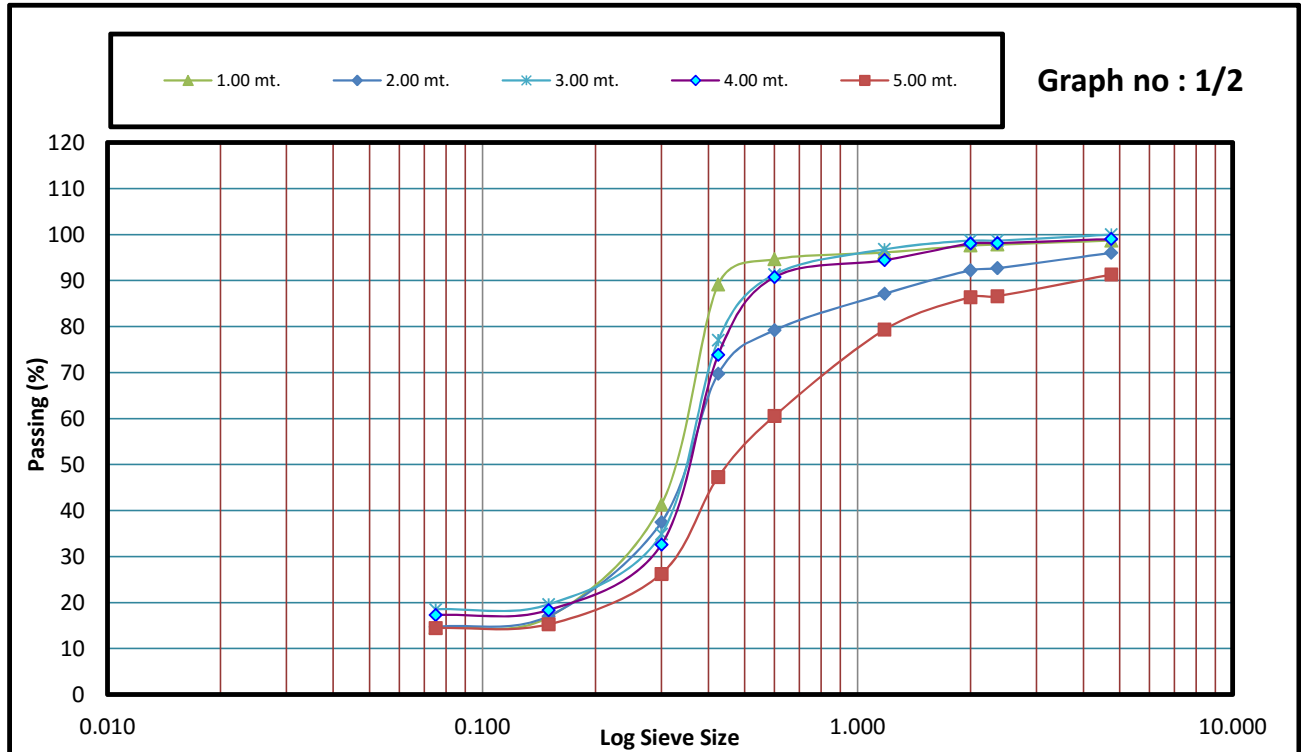
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-2, Alang/Sosiya, Gujarat.

**Plot No.:** V-2



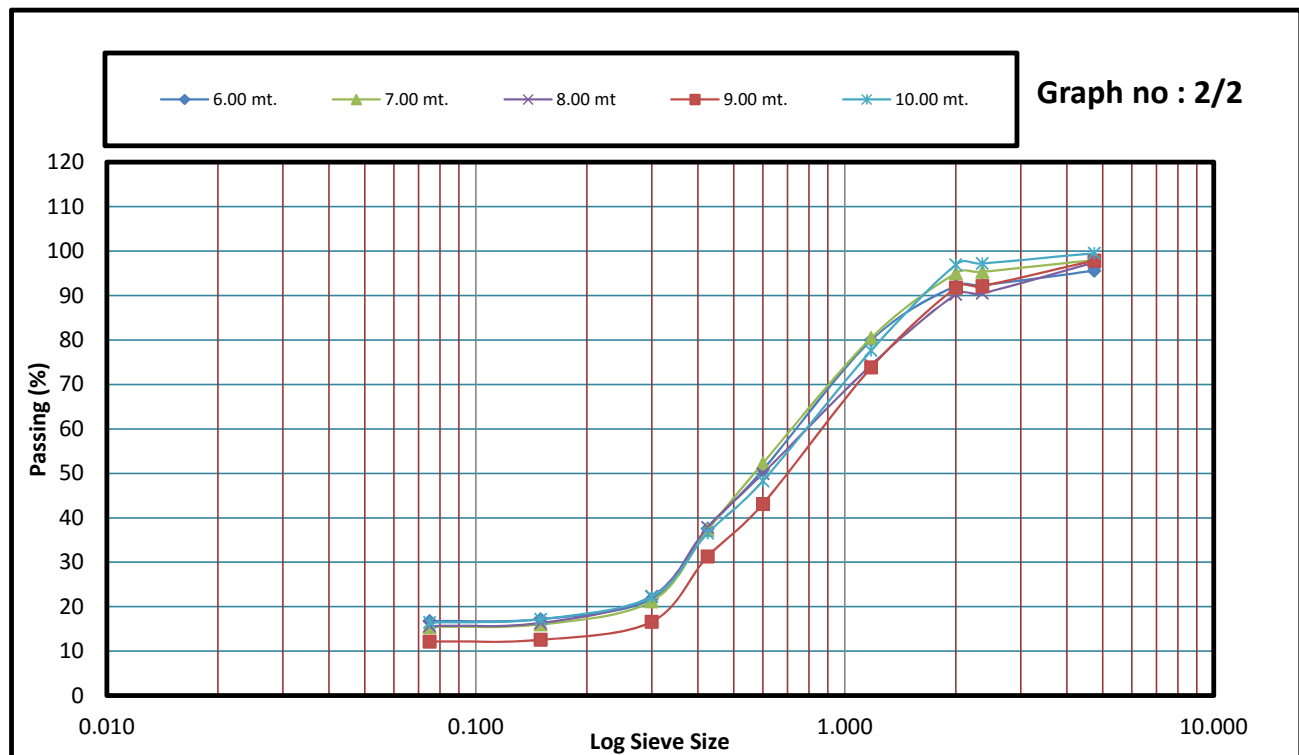
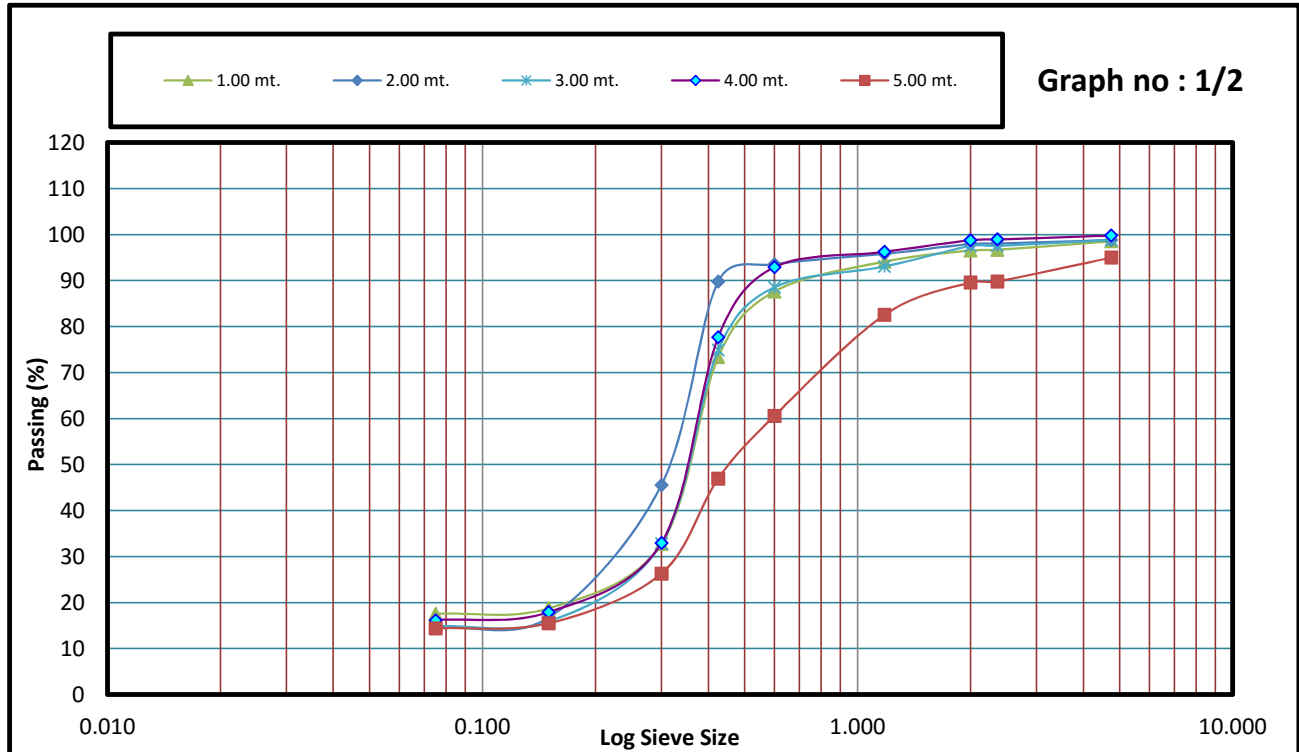
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-3, Alang/Sosiya, Gujarat.

**Plot No.:** V-3



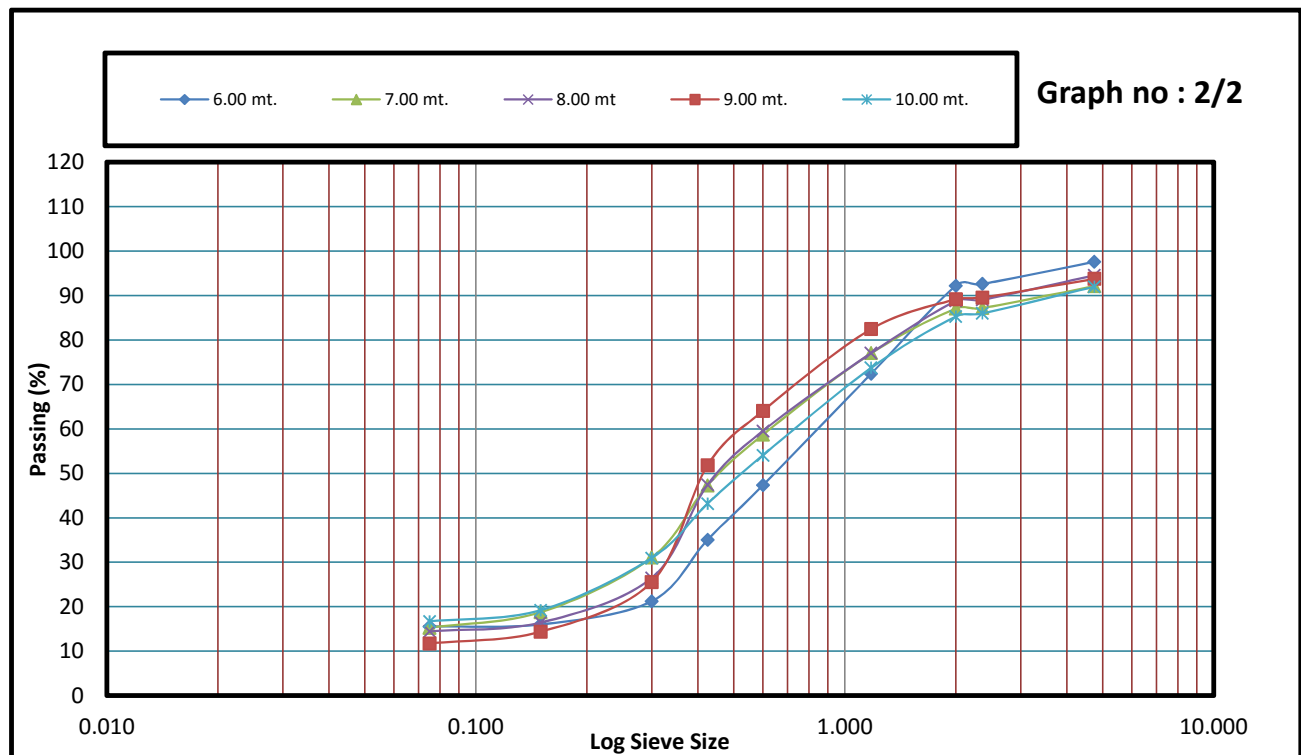
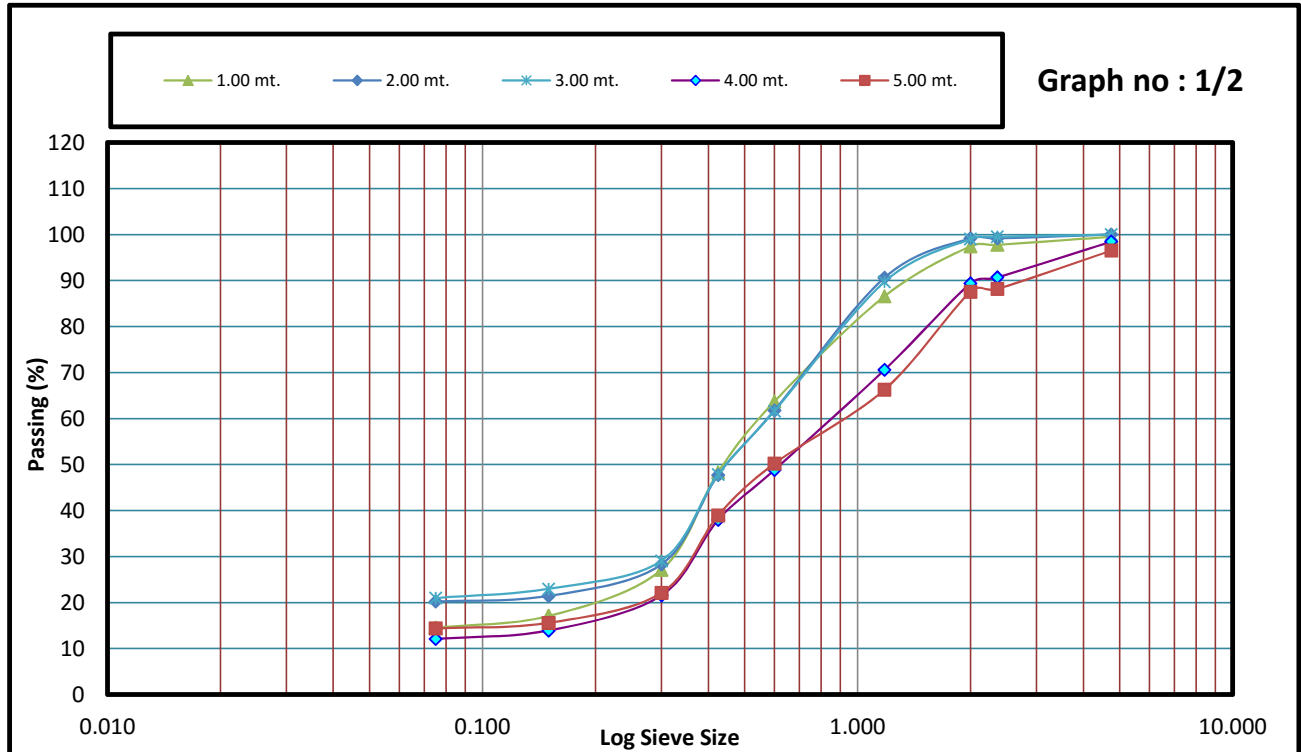
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-4, Alang/Sosiya, Gujarat.

**Plot No.:** V-4



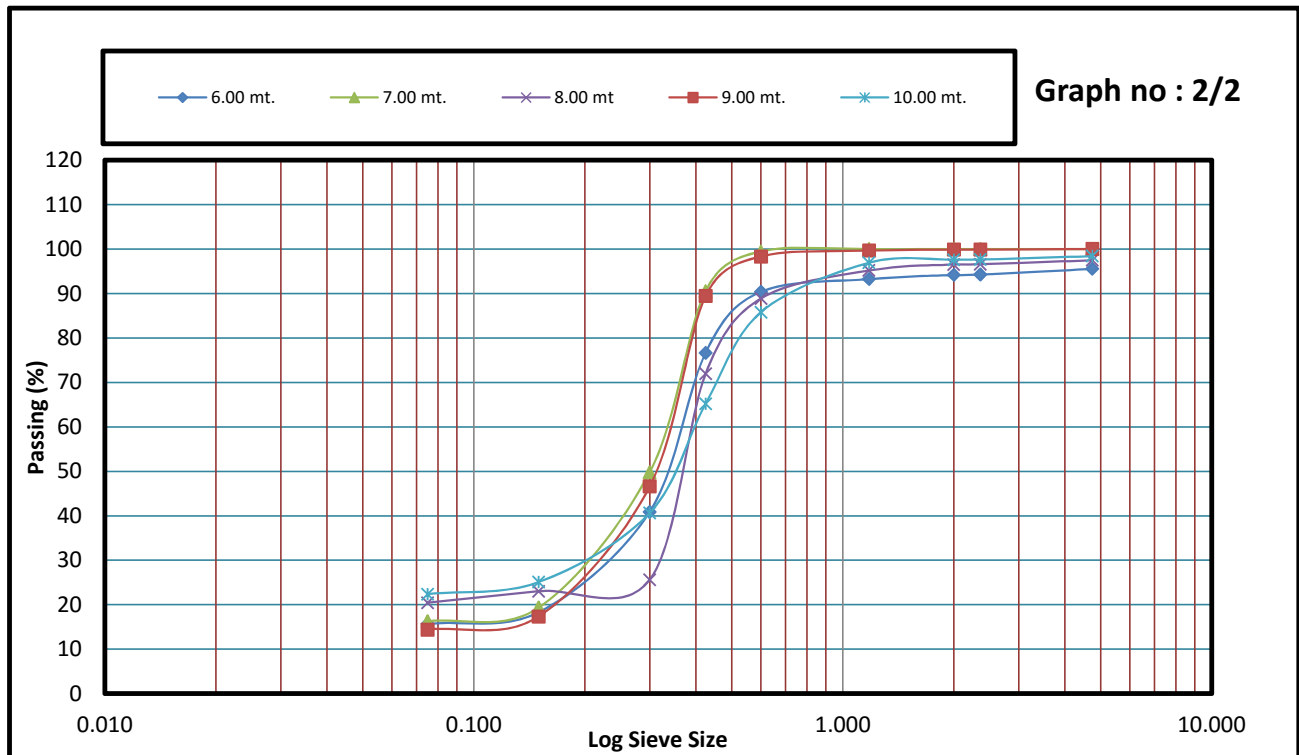
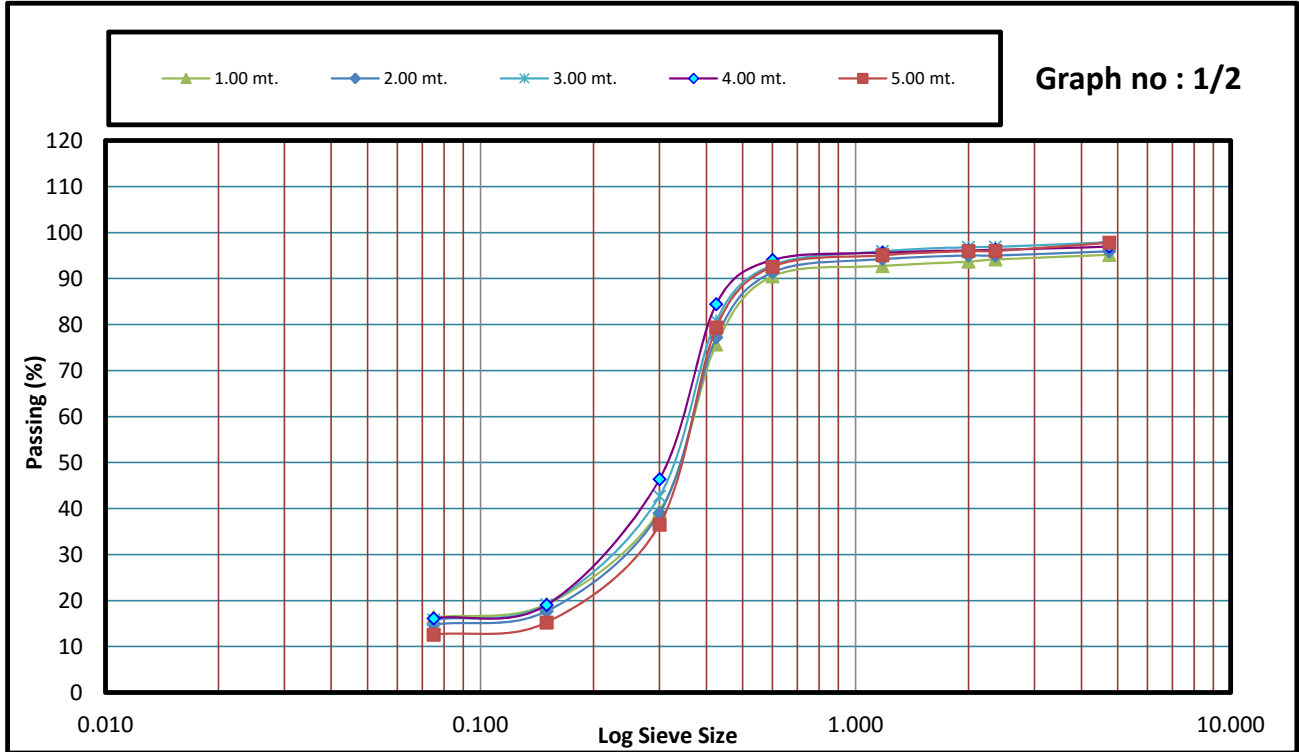
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-5, Alang/Sosiya, Gujarat.

**Plot No.:** V-5



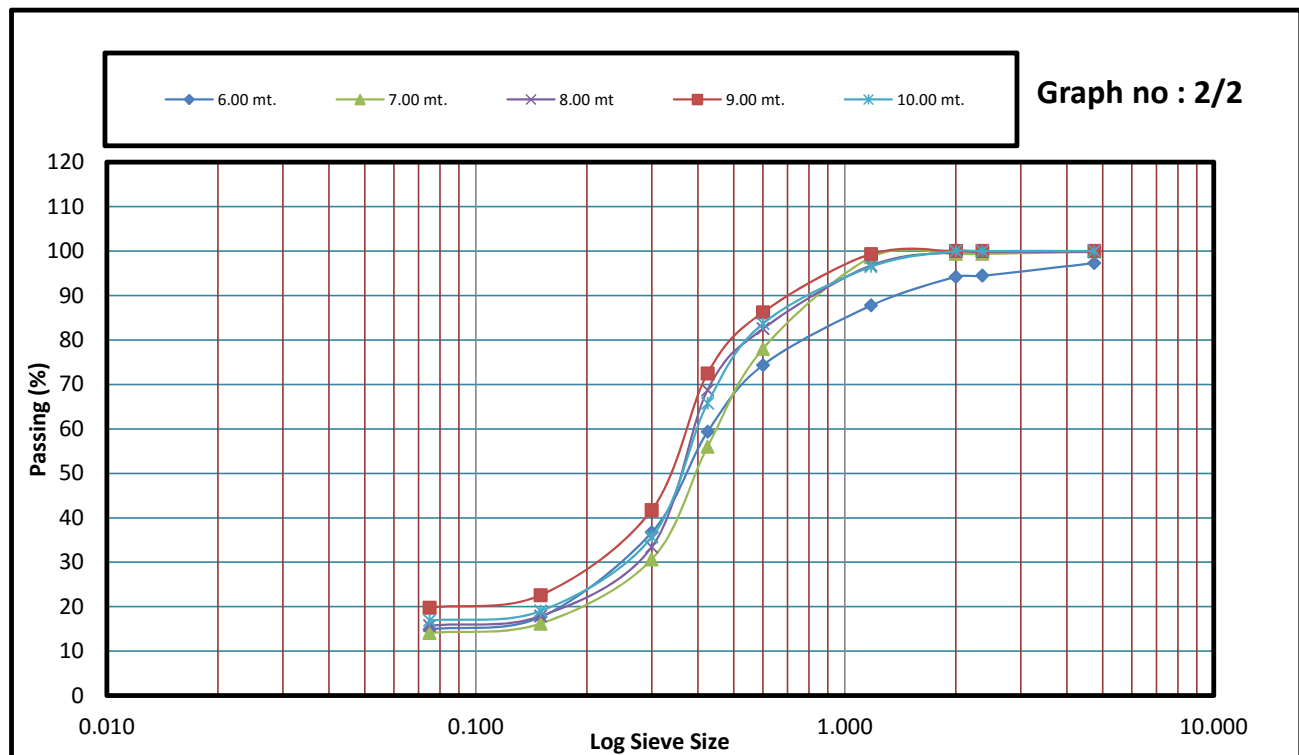
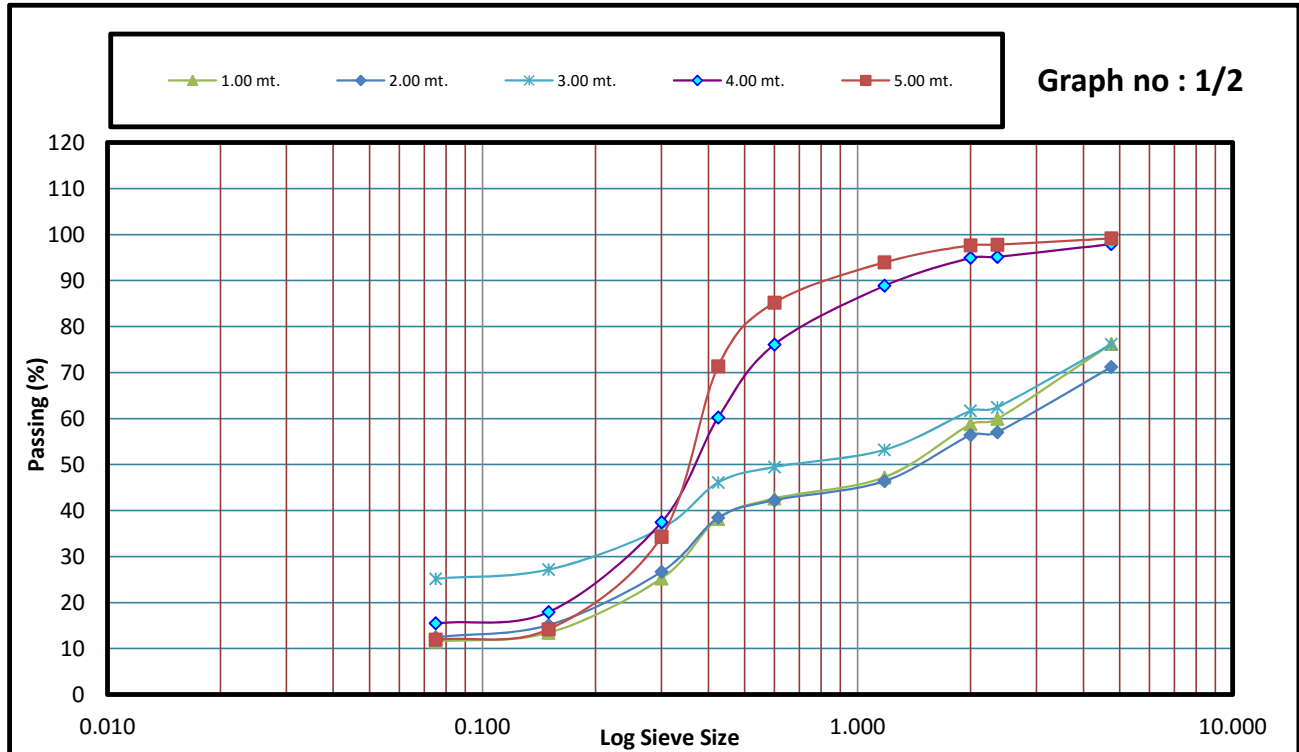
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:106, Alang/Sosiya, Gujarat.

**Plot No.:** 106



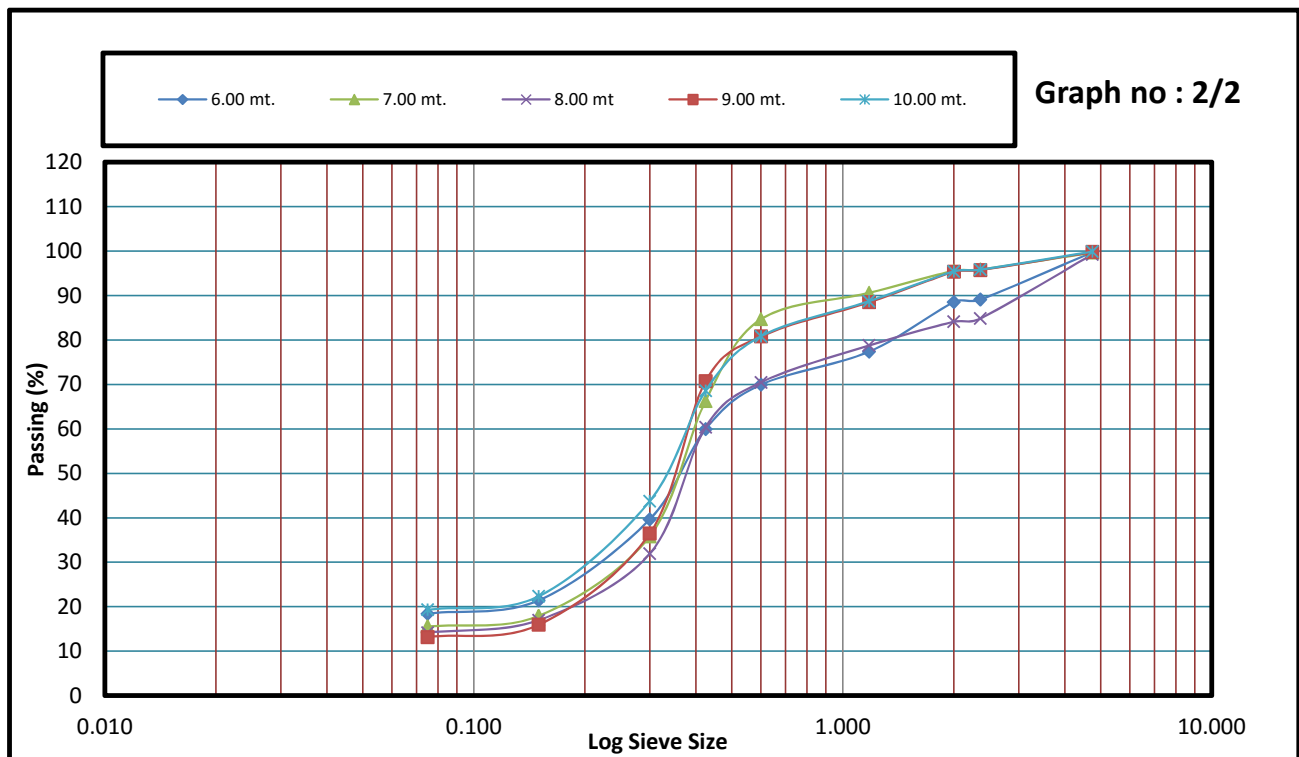
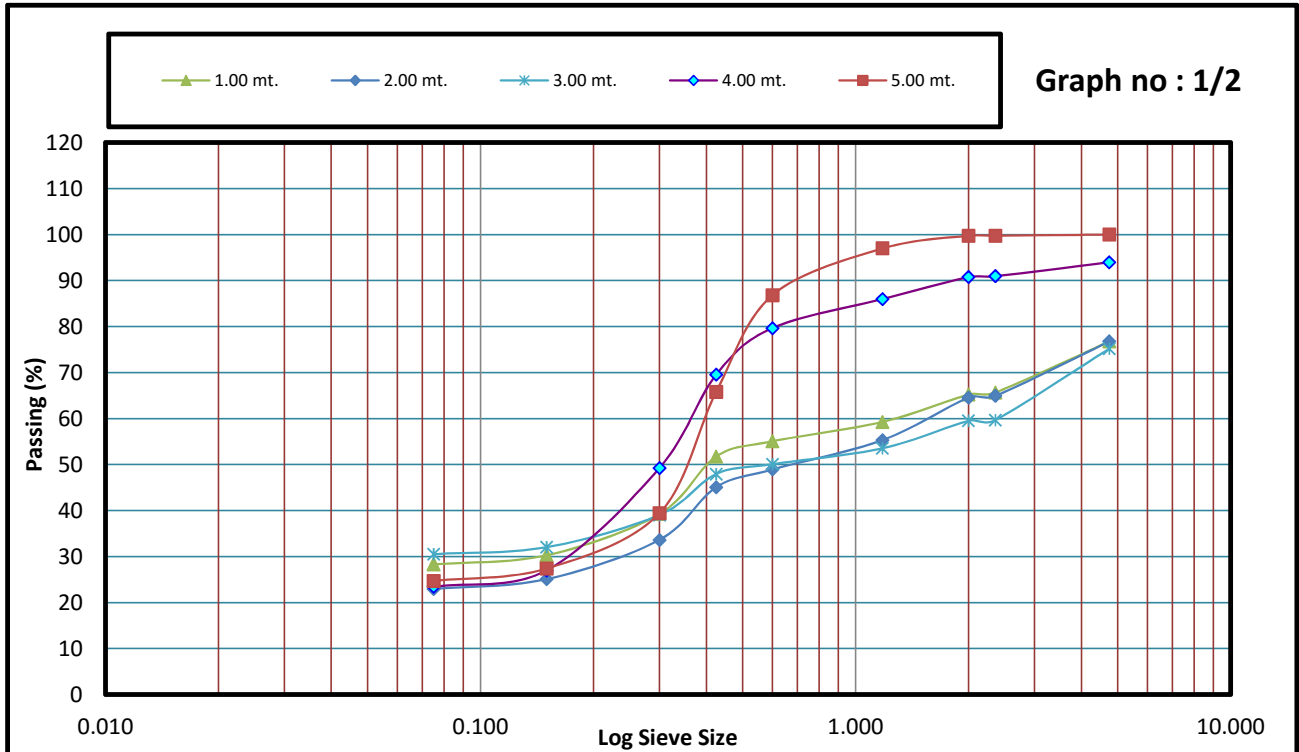
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:108, Alang/Sosiya, Gujarat.

**Plot No.:** 108



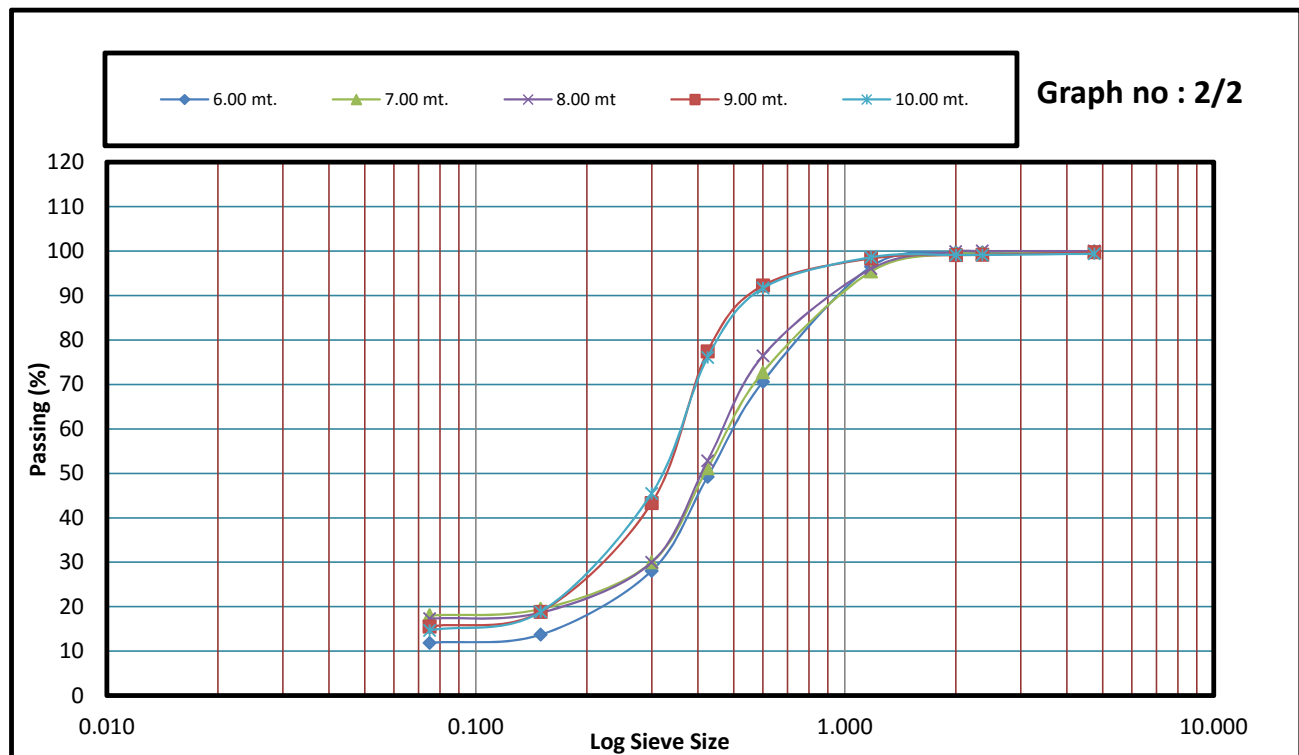
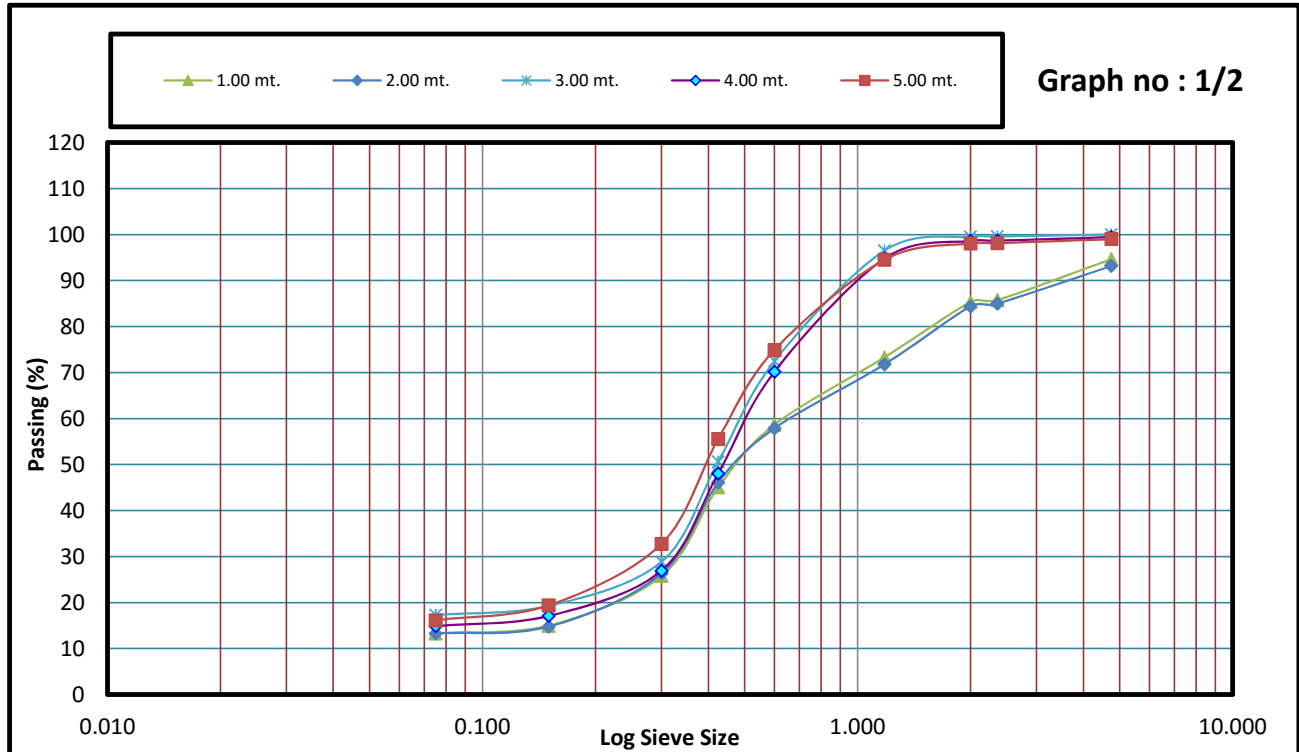
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:113, Alang/Sosiya, Gujarat.

**Plot No.:** 113





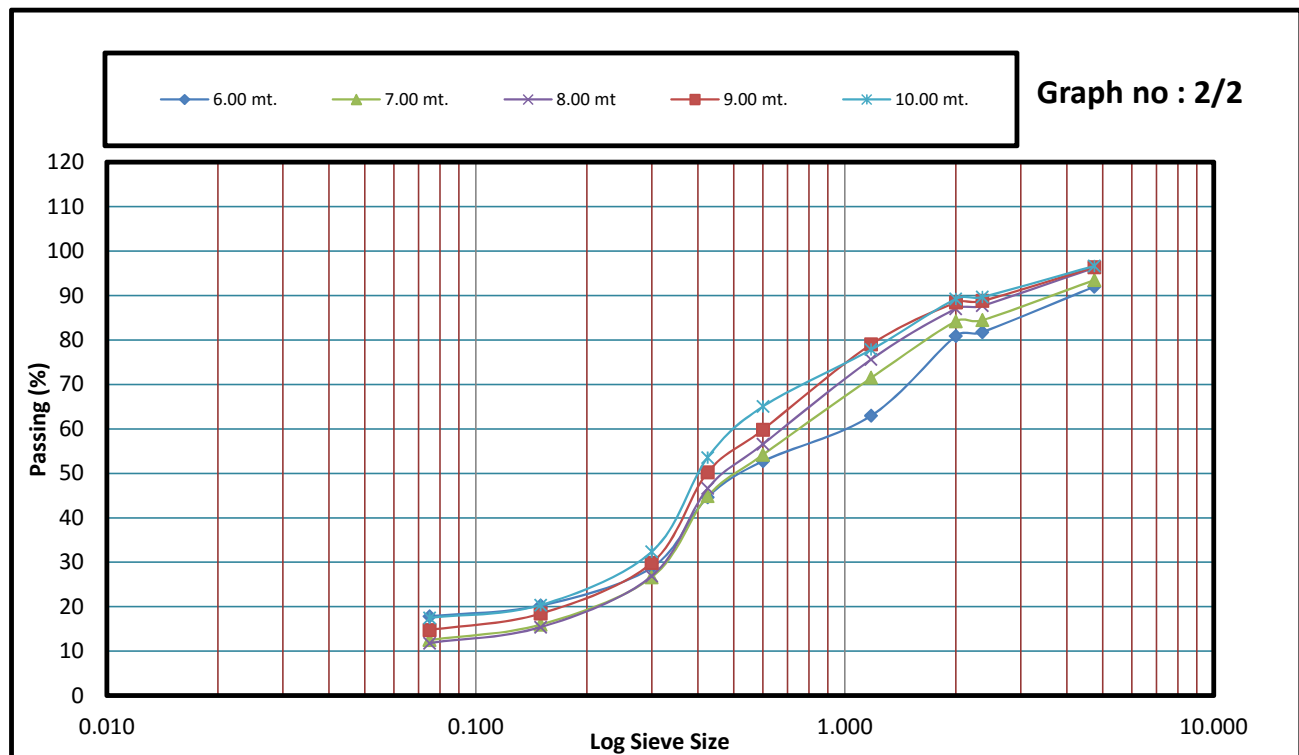
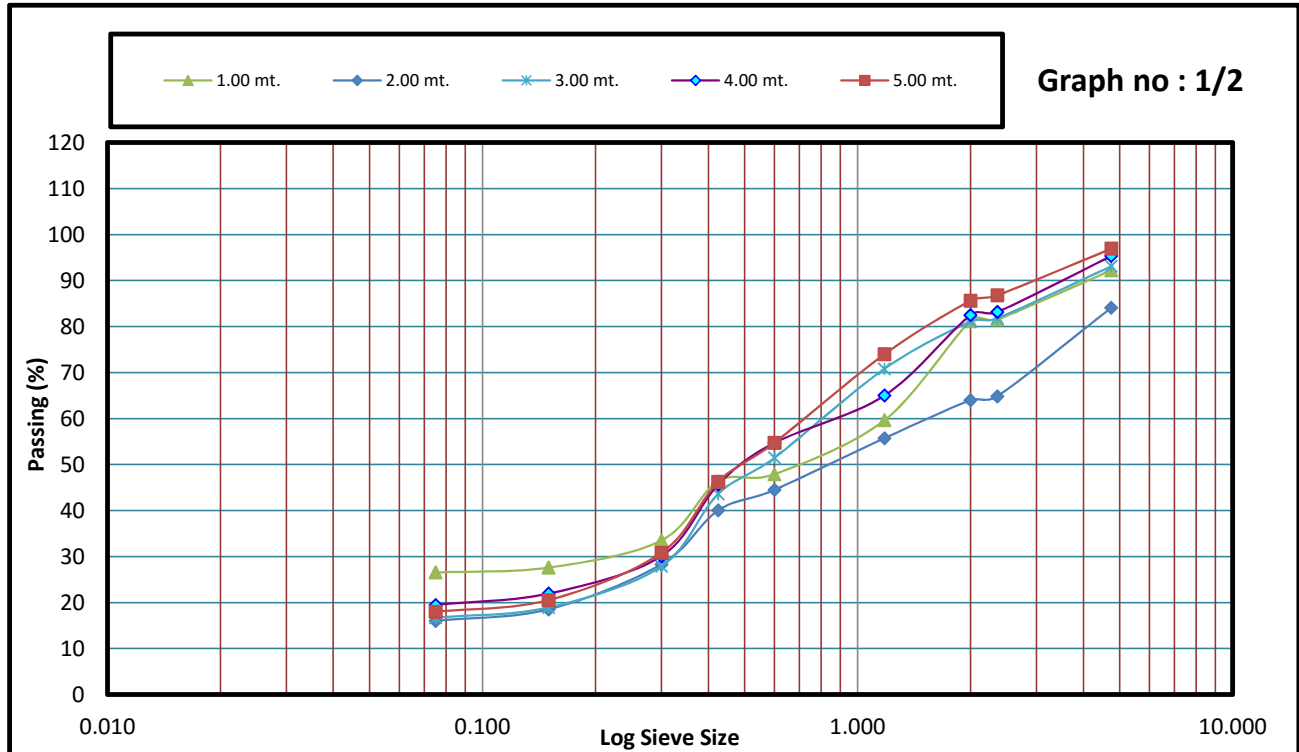
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:117, Alang/Sosiya, Gujarat.

**Plot No.:** 117



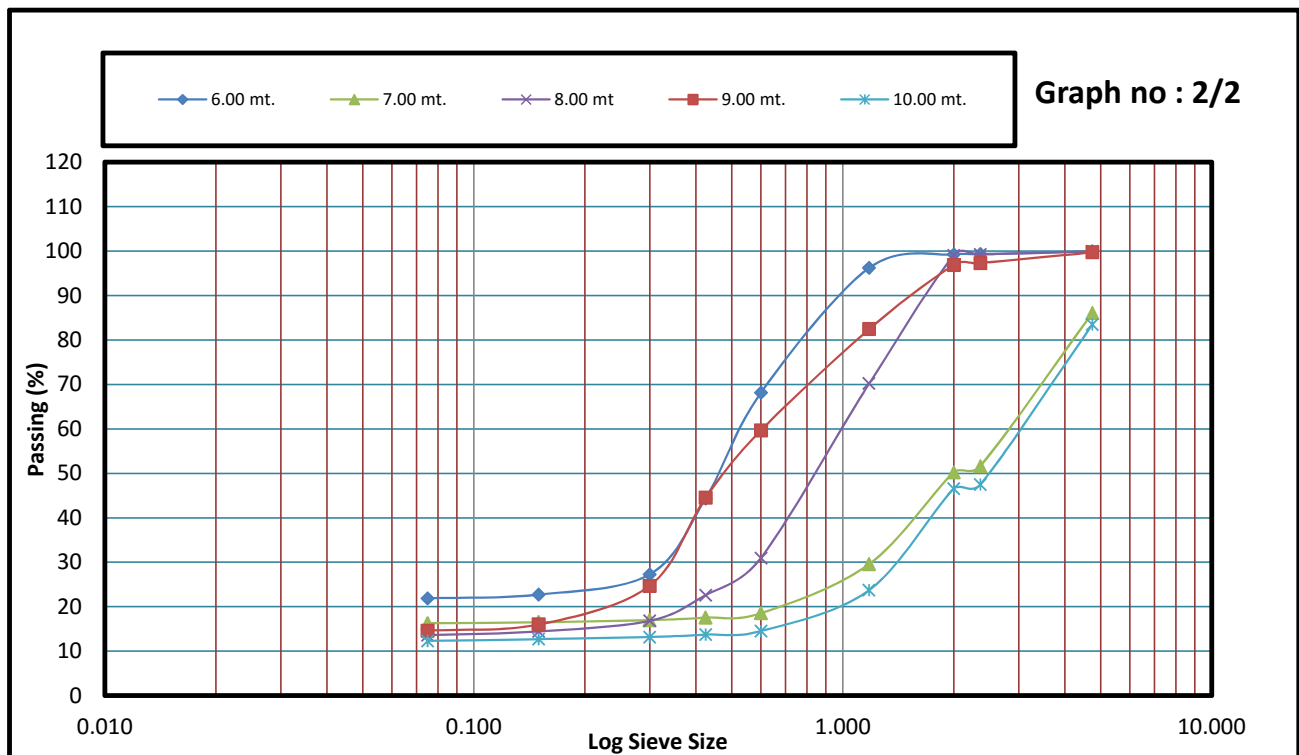
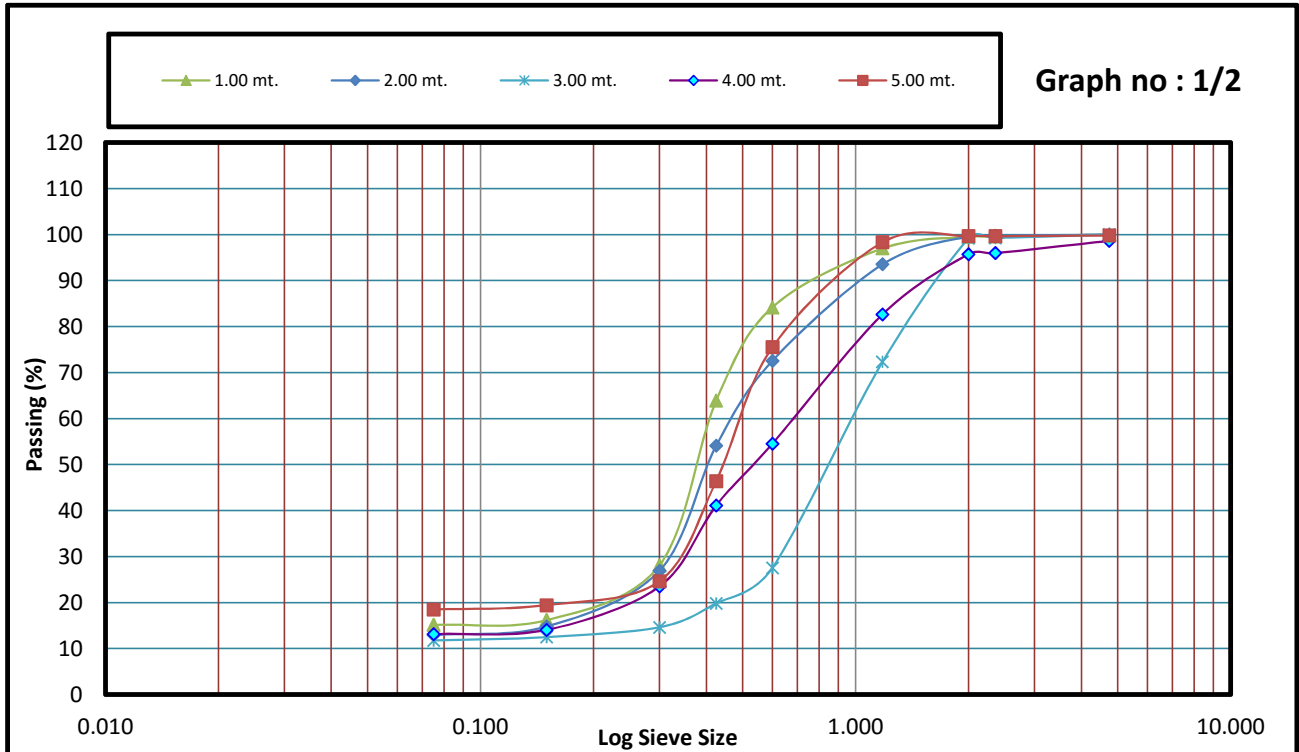
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:120, Alang/Sosiya, Gujarat.

**Plot No.:** 120



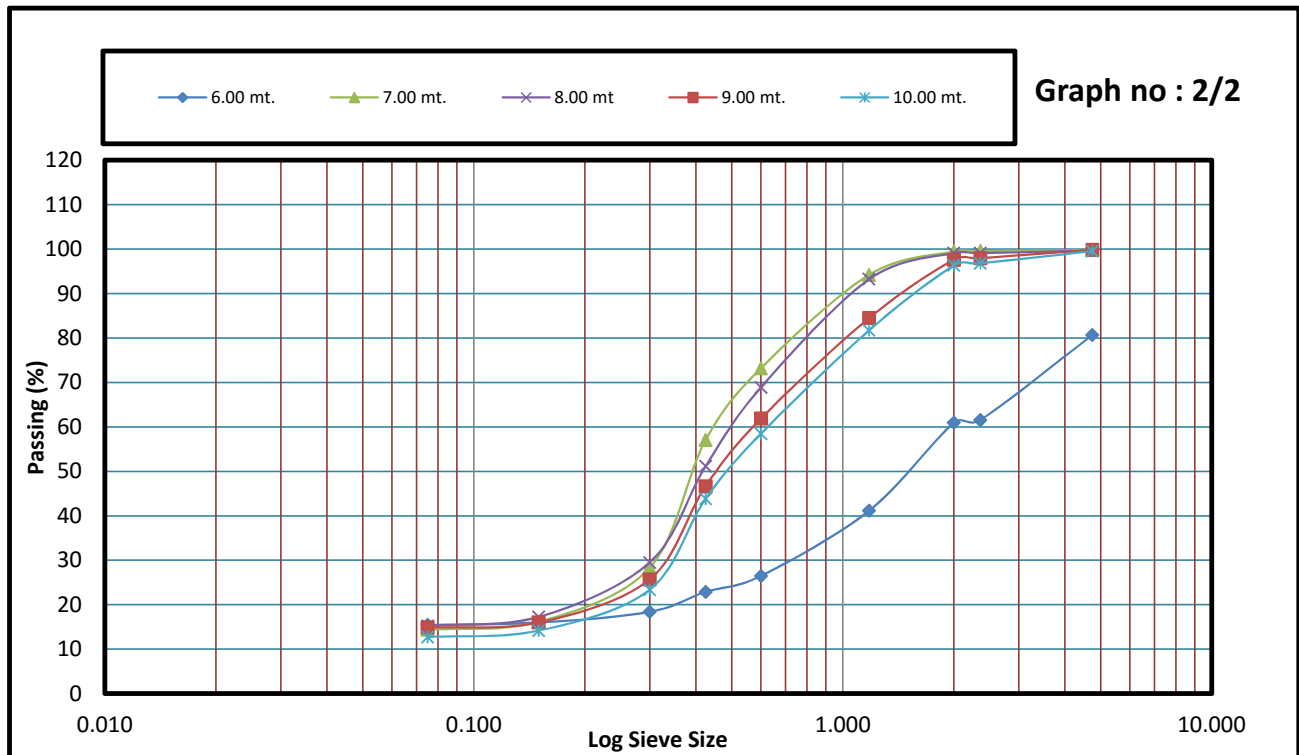
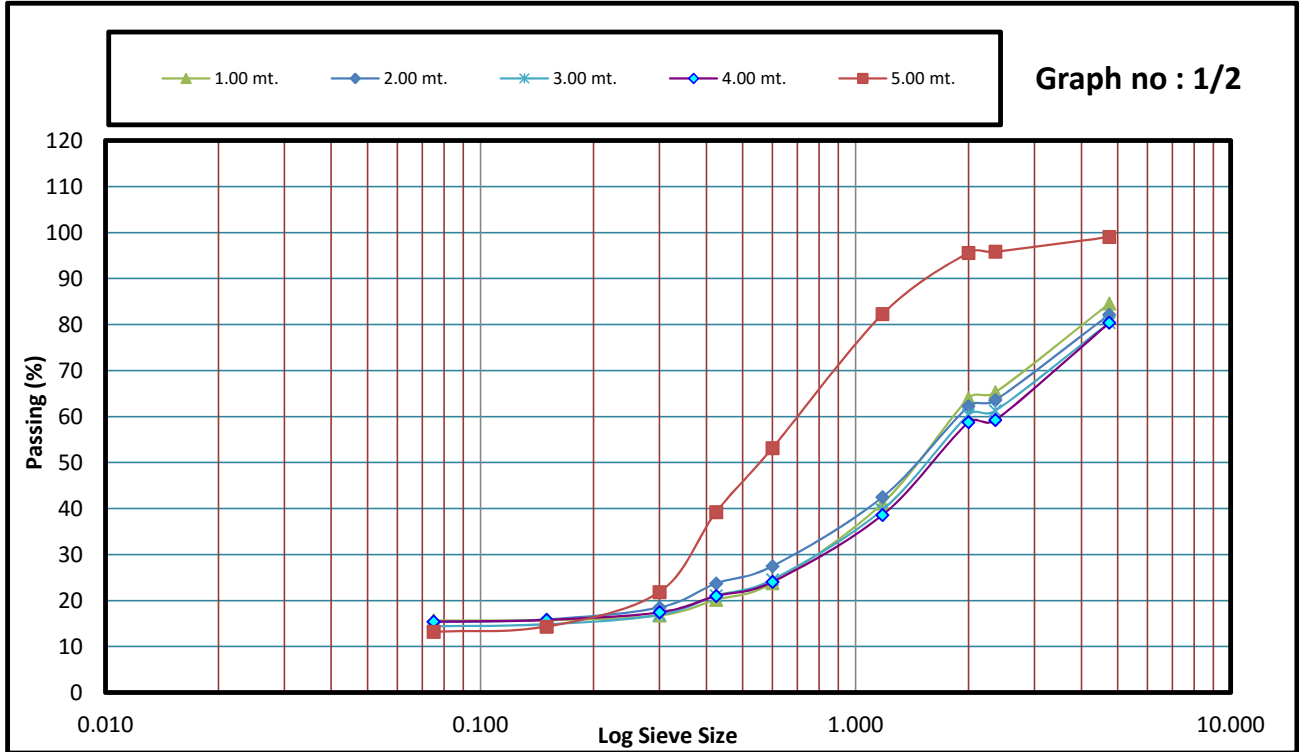
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:122, Alang/Sosiya, Gujarat.

**Plot No.:** 122



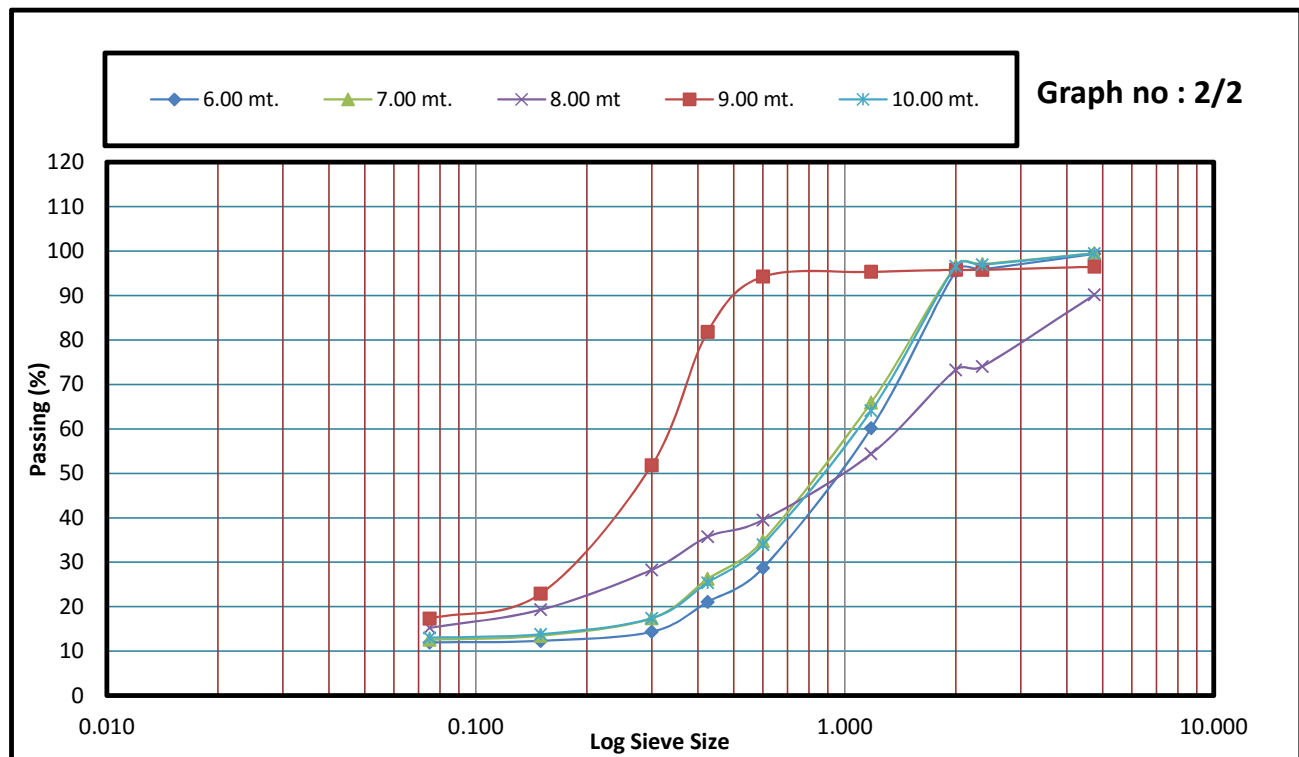
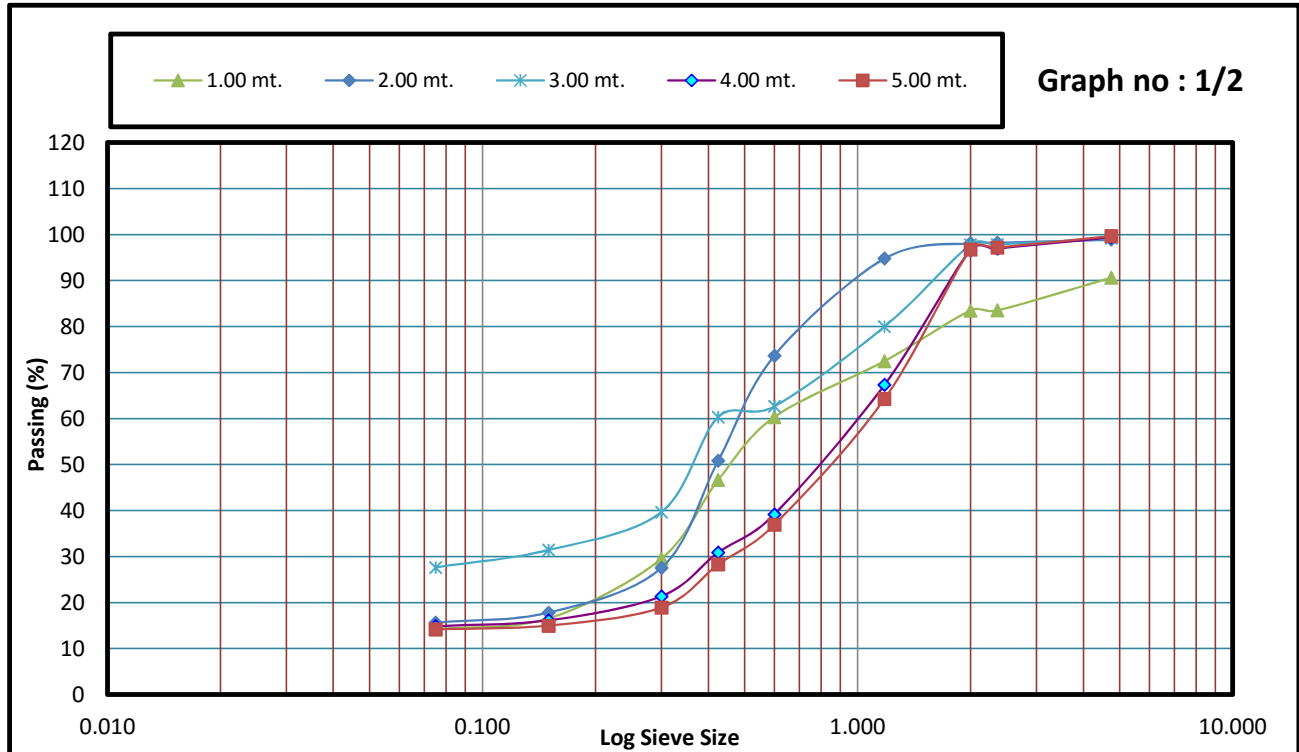
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:125, Alang/Sosiya, Gujarat.

**Plot No.:** 125



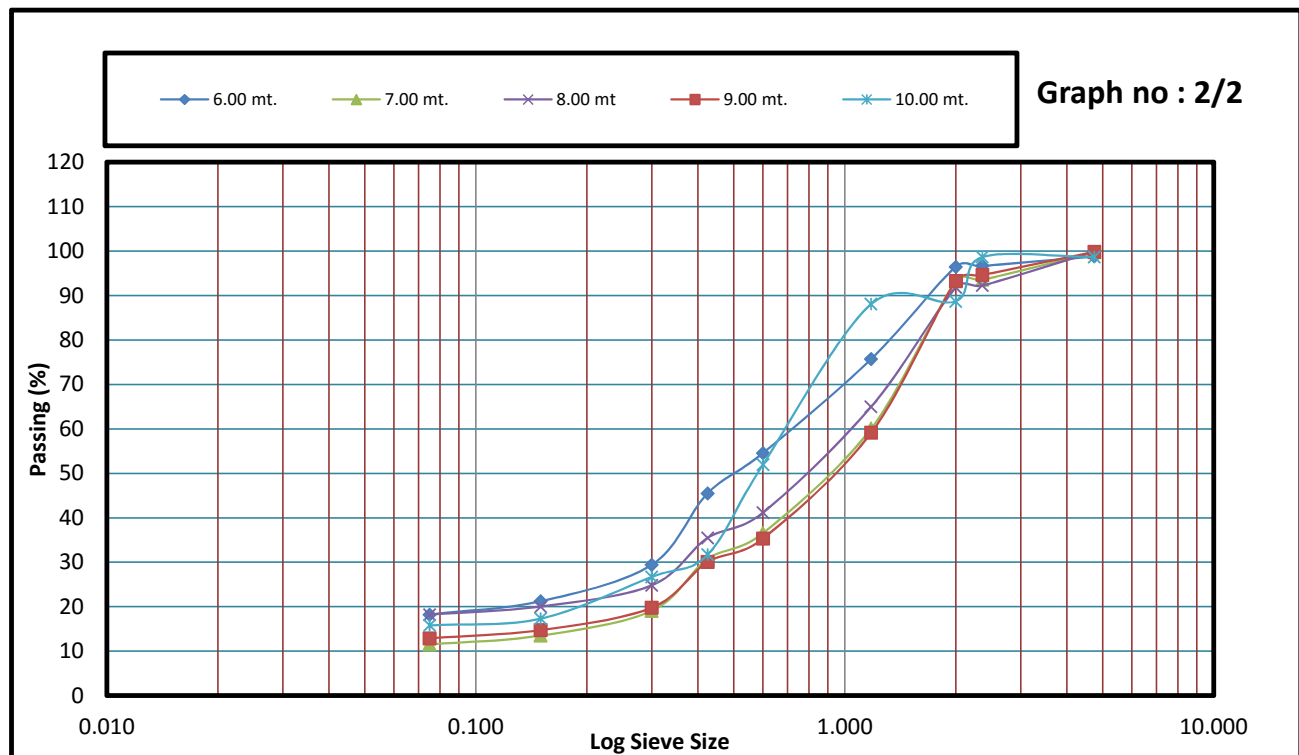
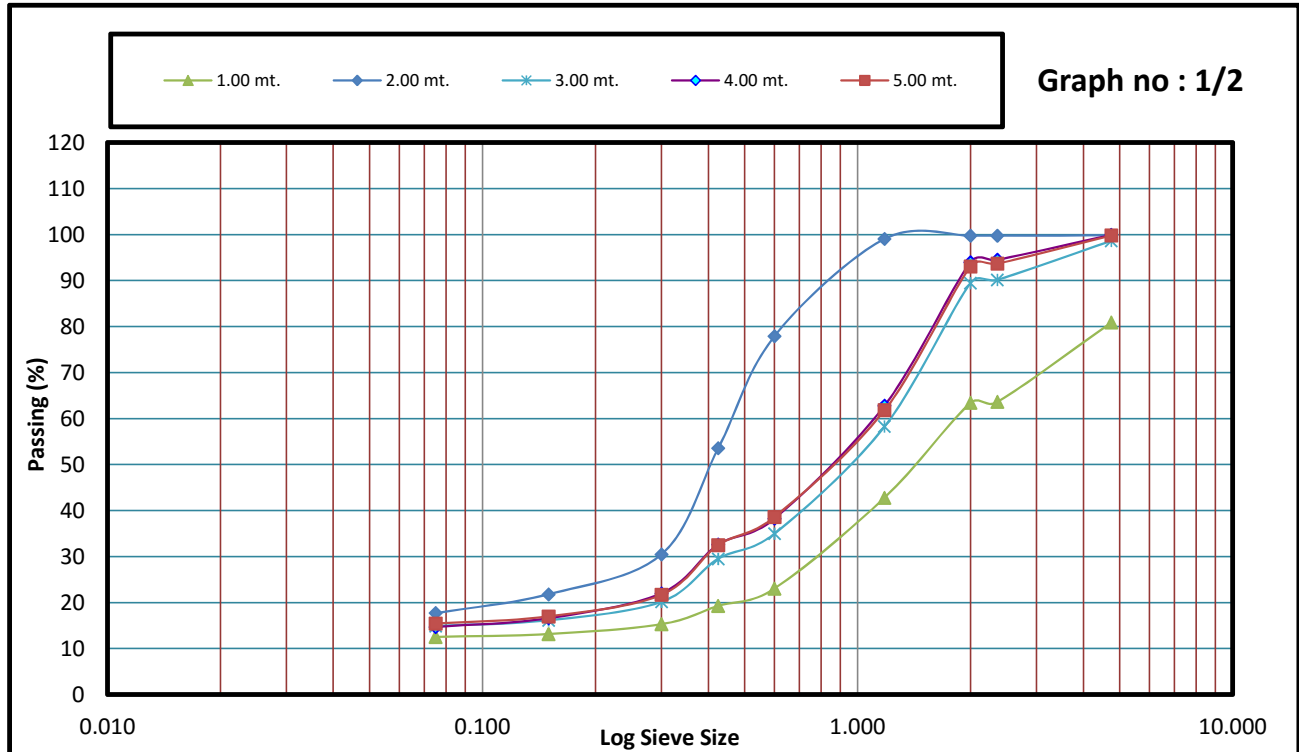
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:130, Alang/Sosiya, Gujarat.

**Plot No.:** 130



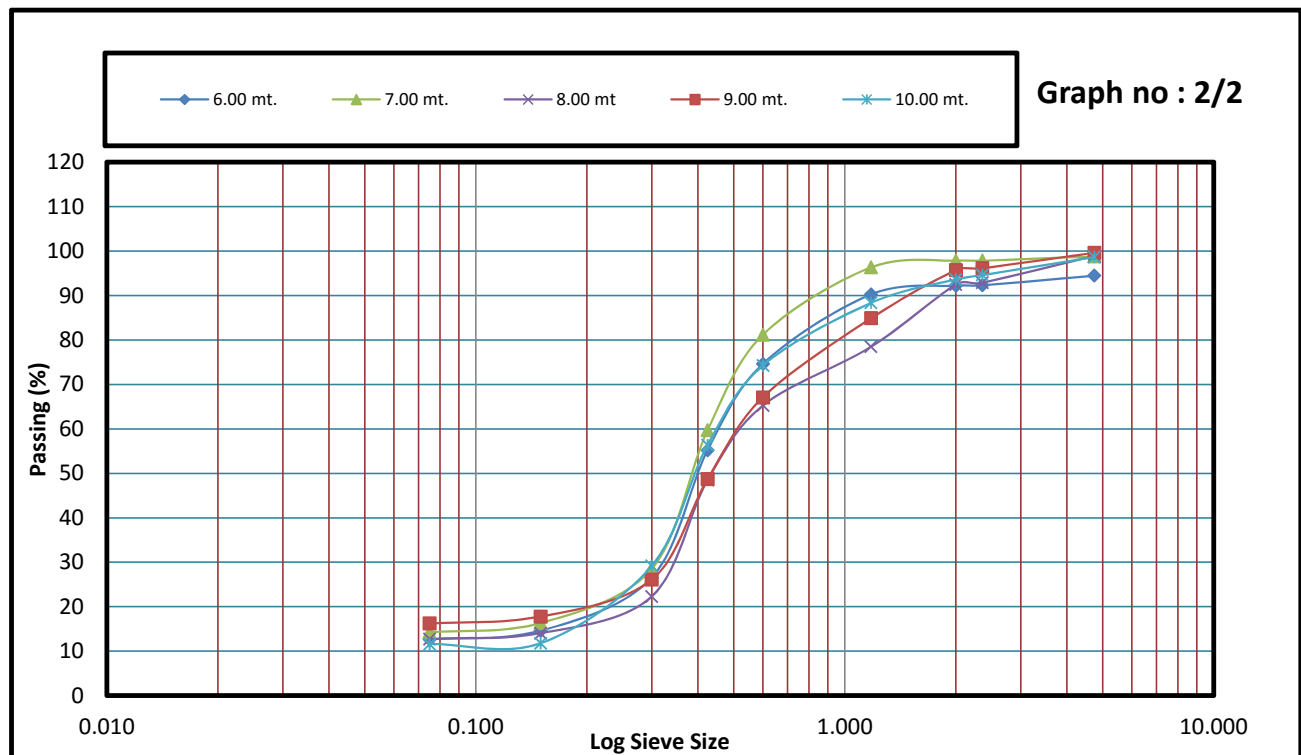
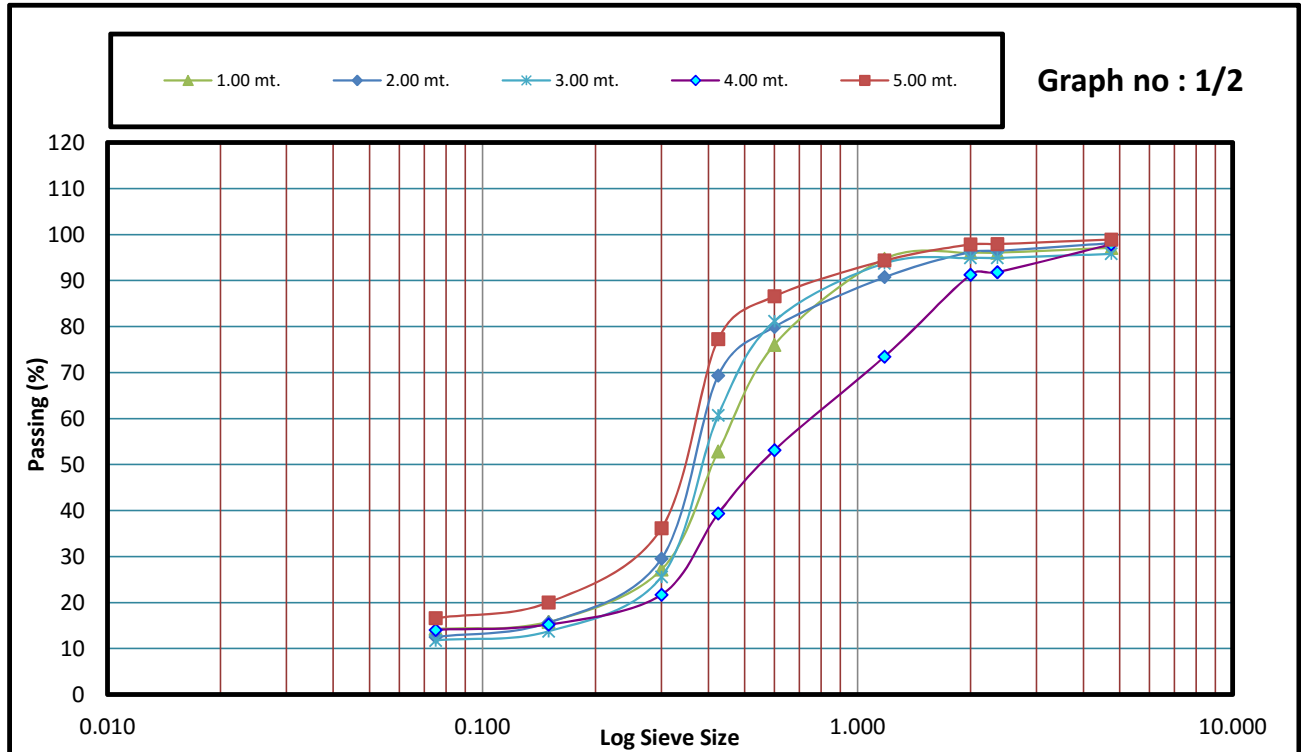
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:135, Alang/Sosiya, Gujarat.

**Plot No.:** 135



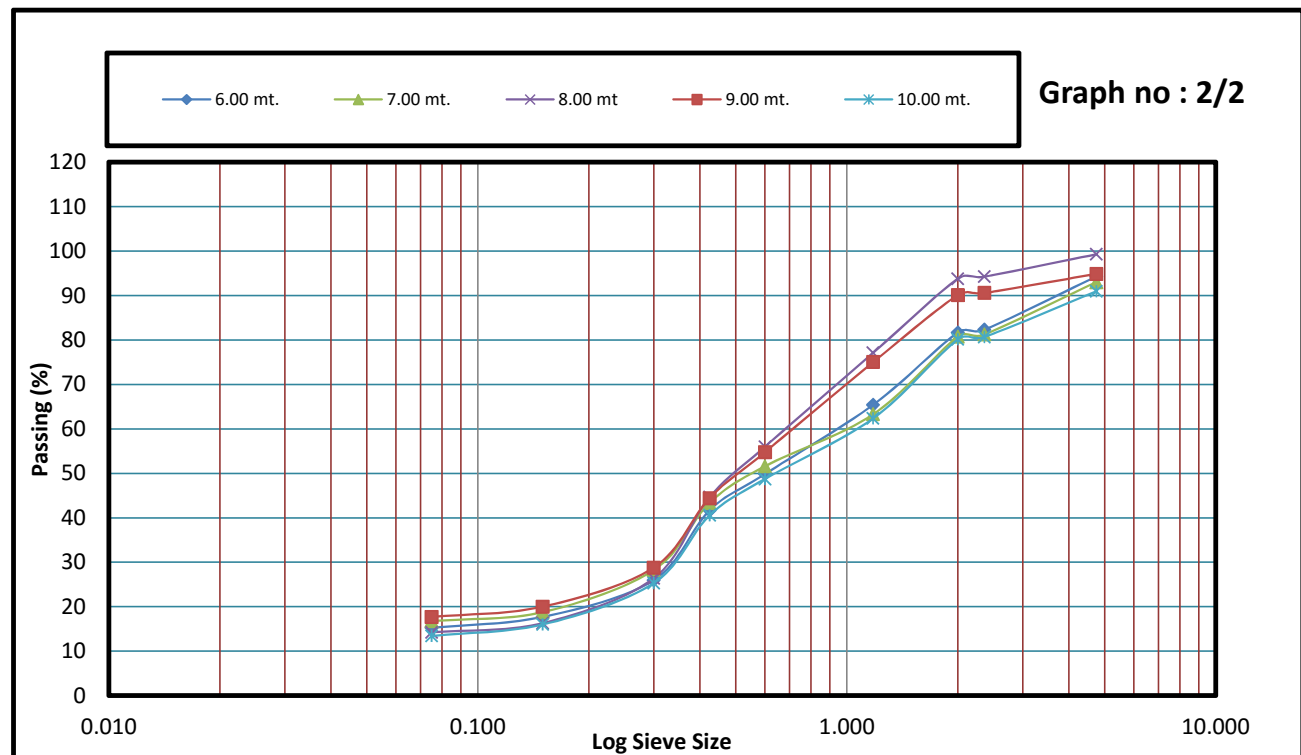
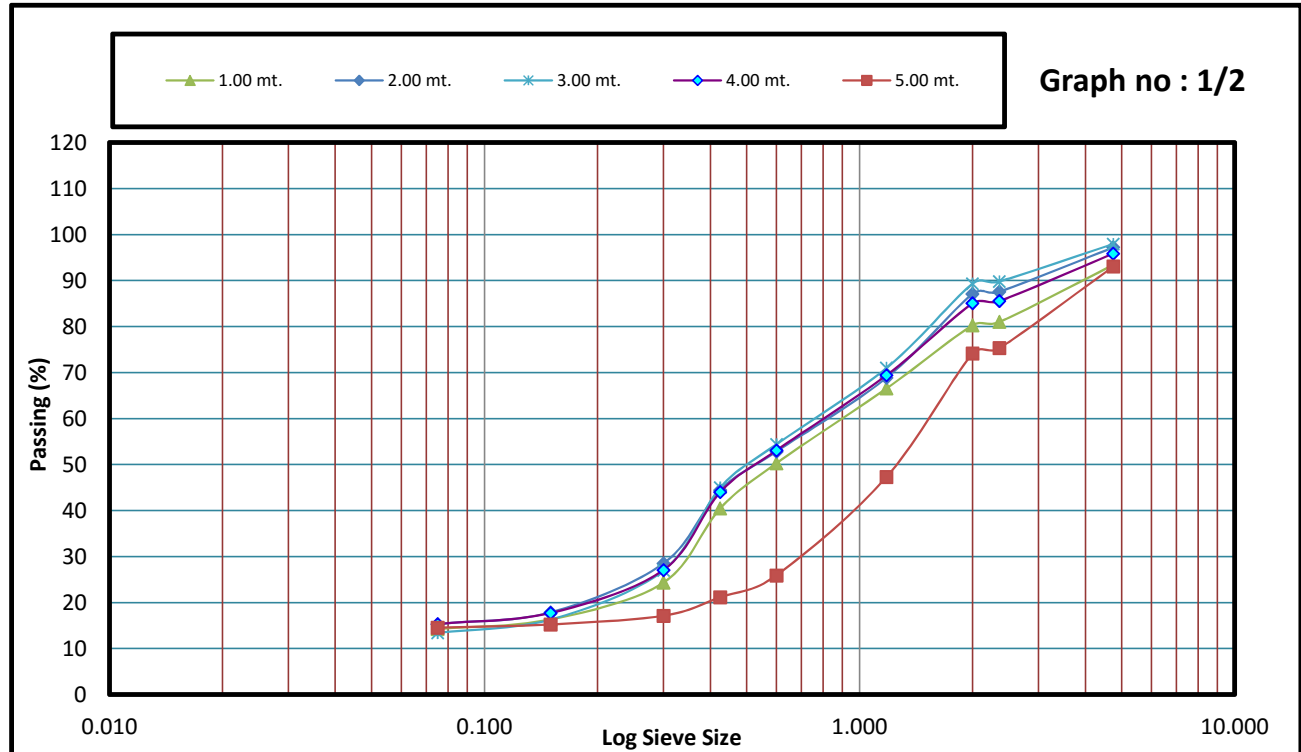
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:140, Alang/Sosiya, Gujarat.

**Plot No.:** 140



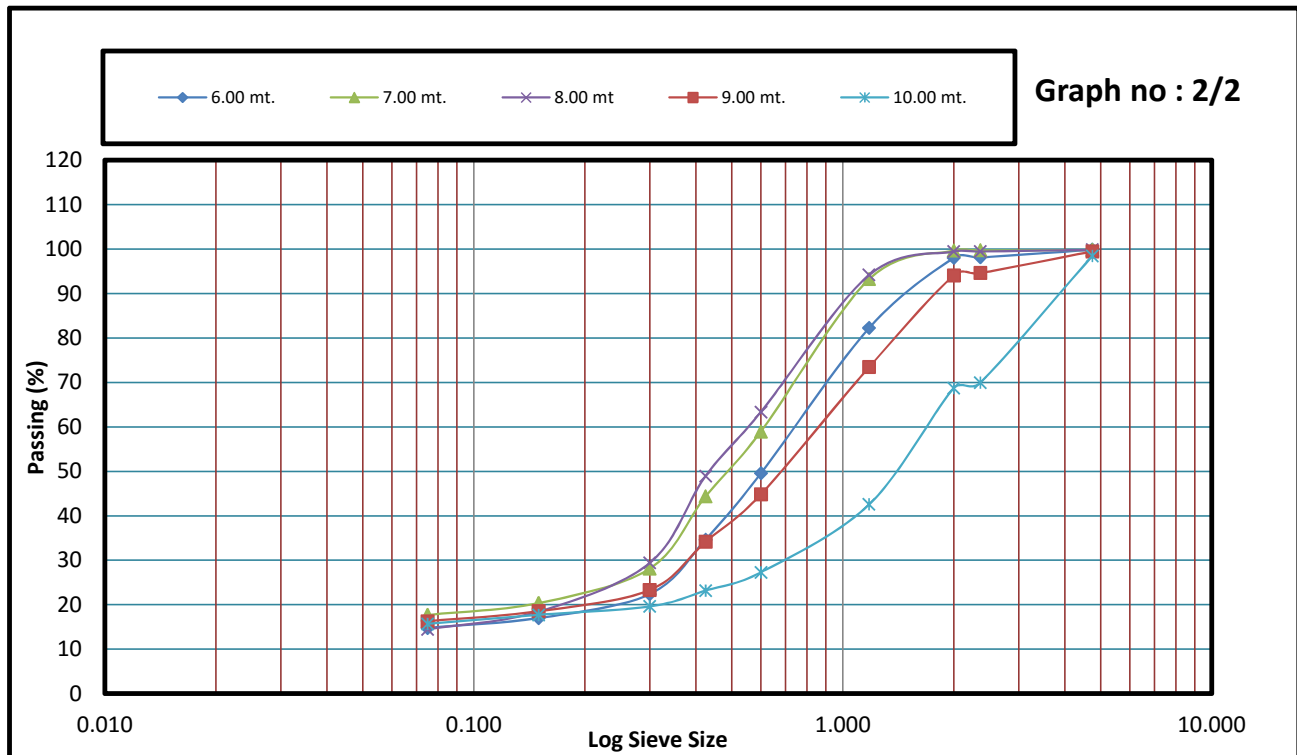
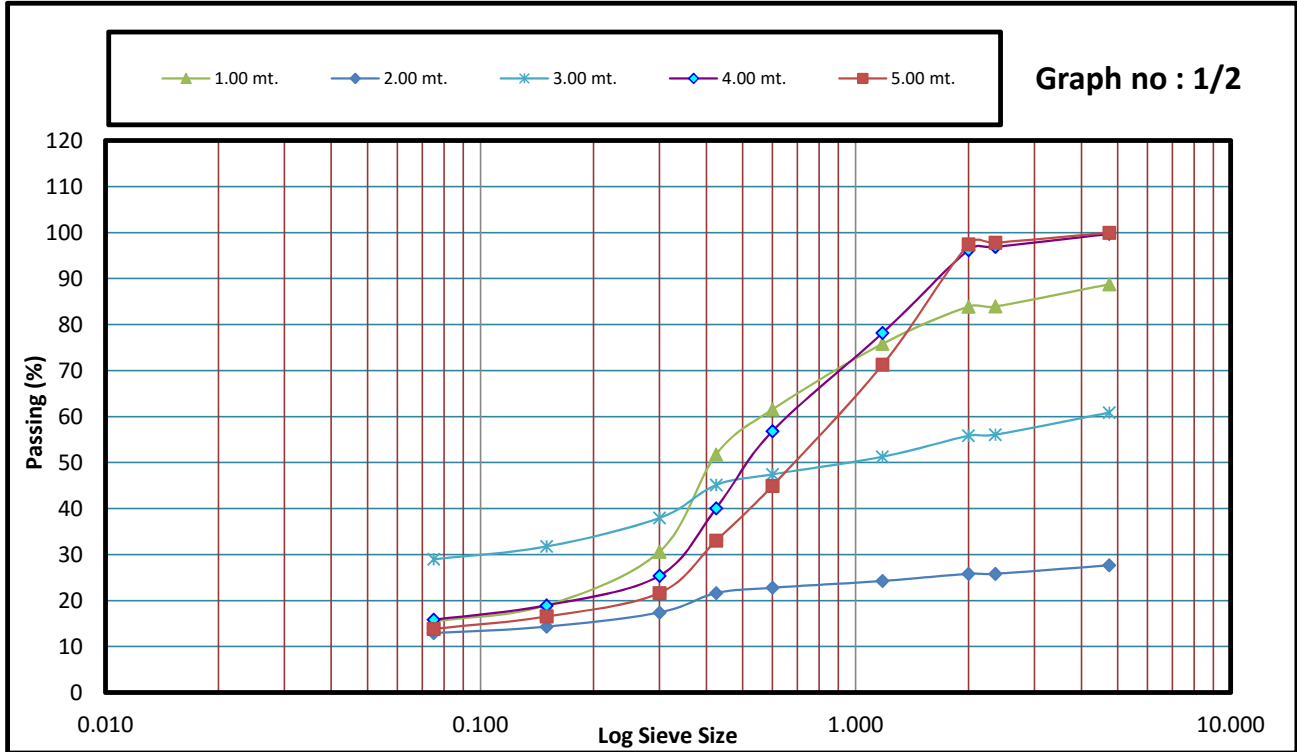
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:141-M, Alang/Sosiya, Gujarat.

**Plot No.:** 141-M





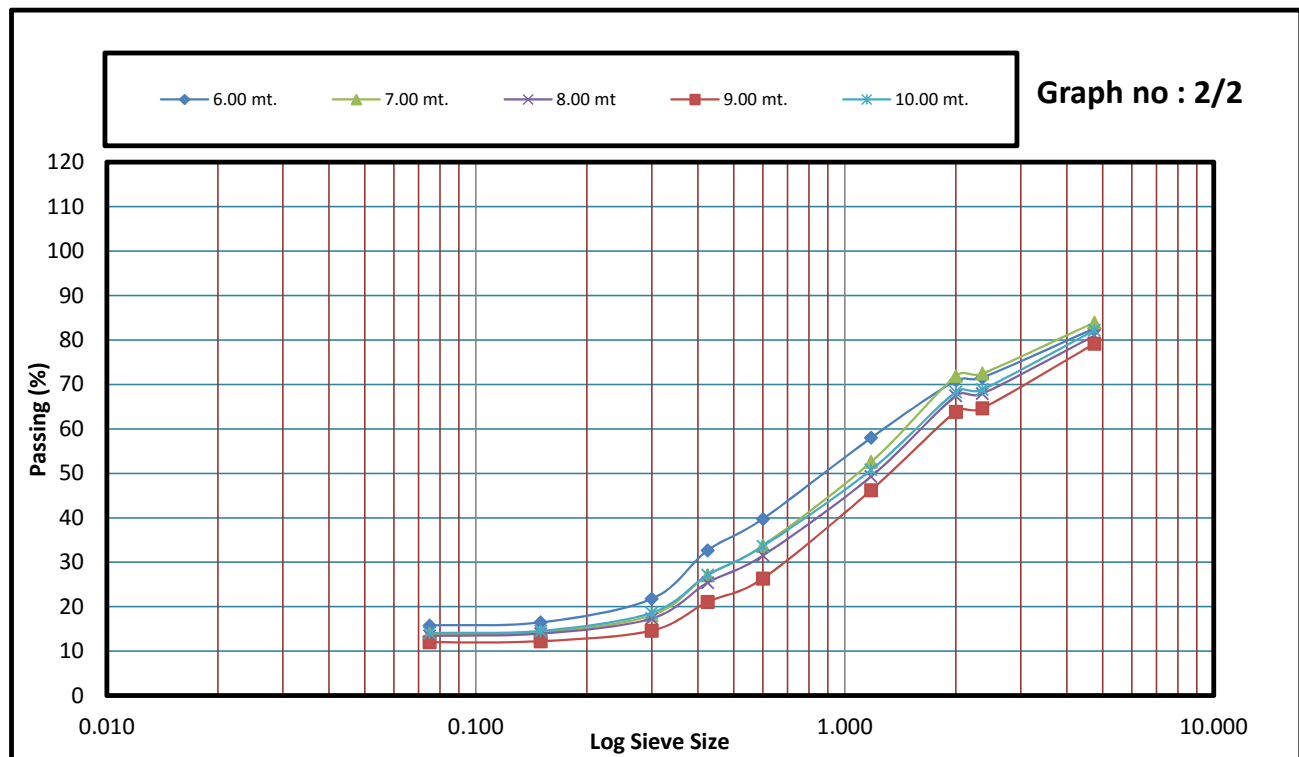
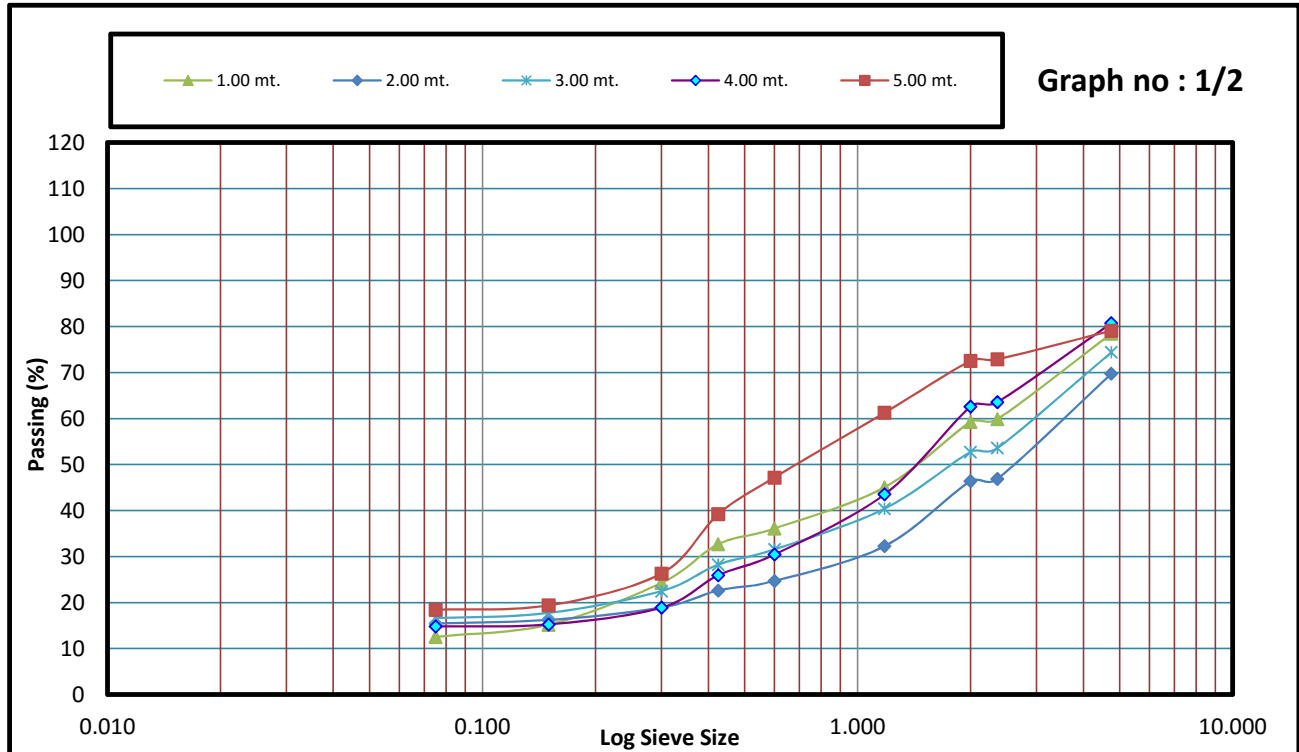
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:144, Alang/Sosiya, Gujarat.

**Plot No.:** 144



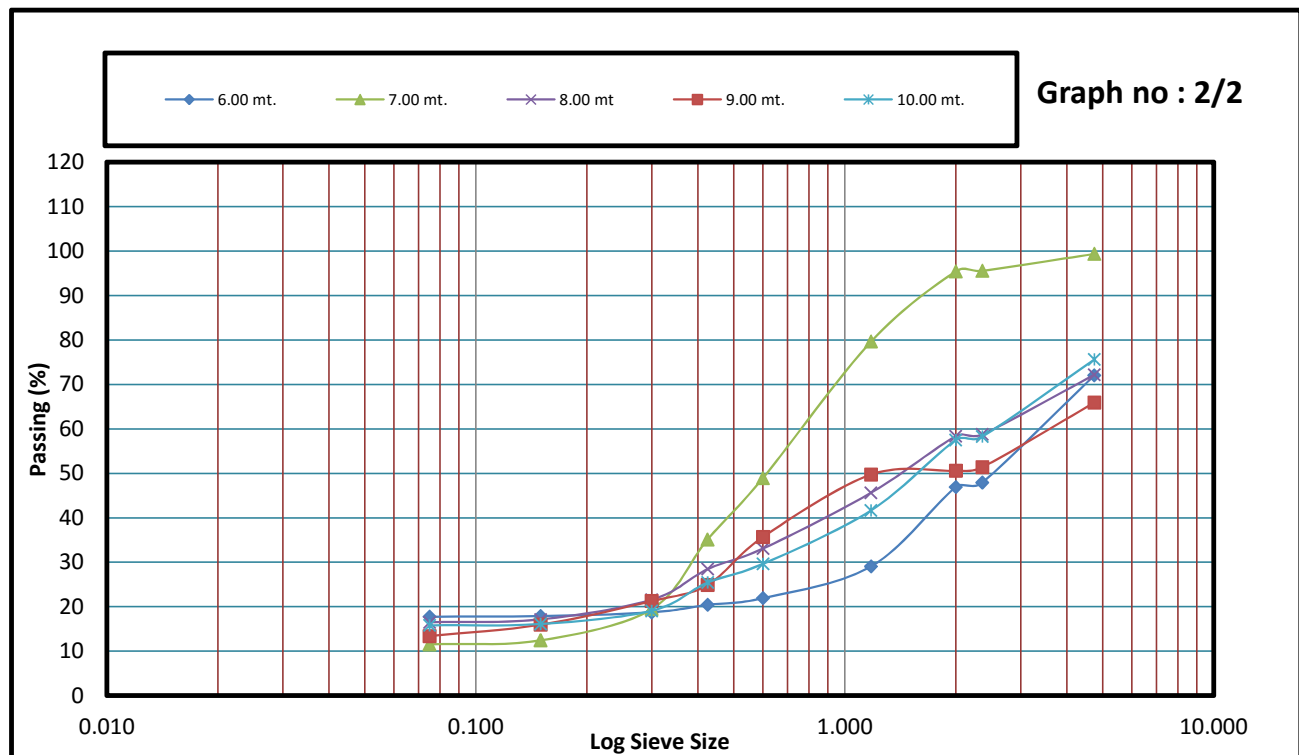
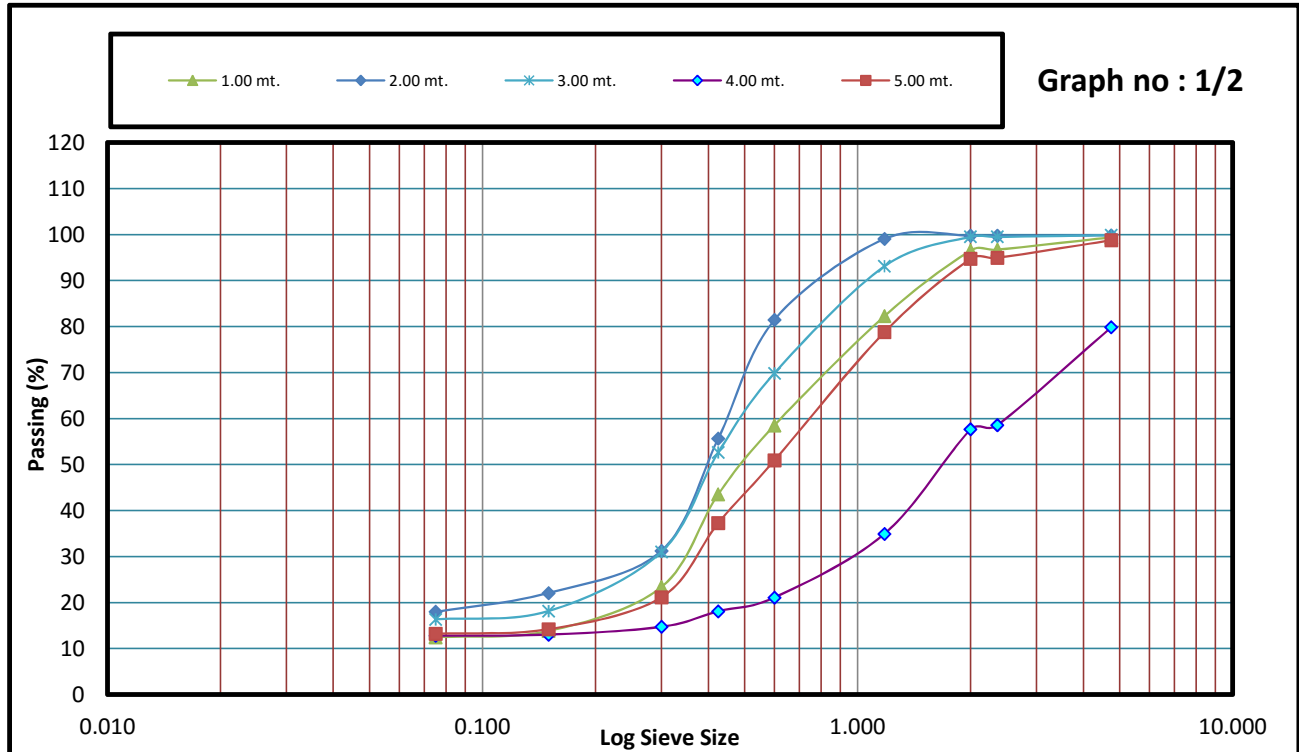
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:148, Alang/Sosiya, Gujarat.

**Plot No.:** 148



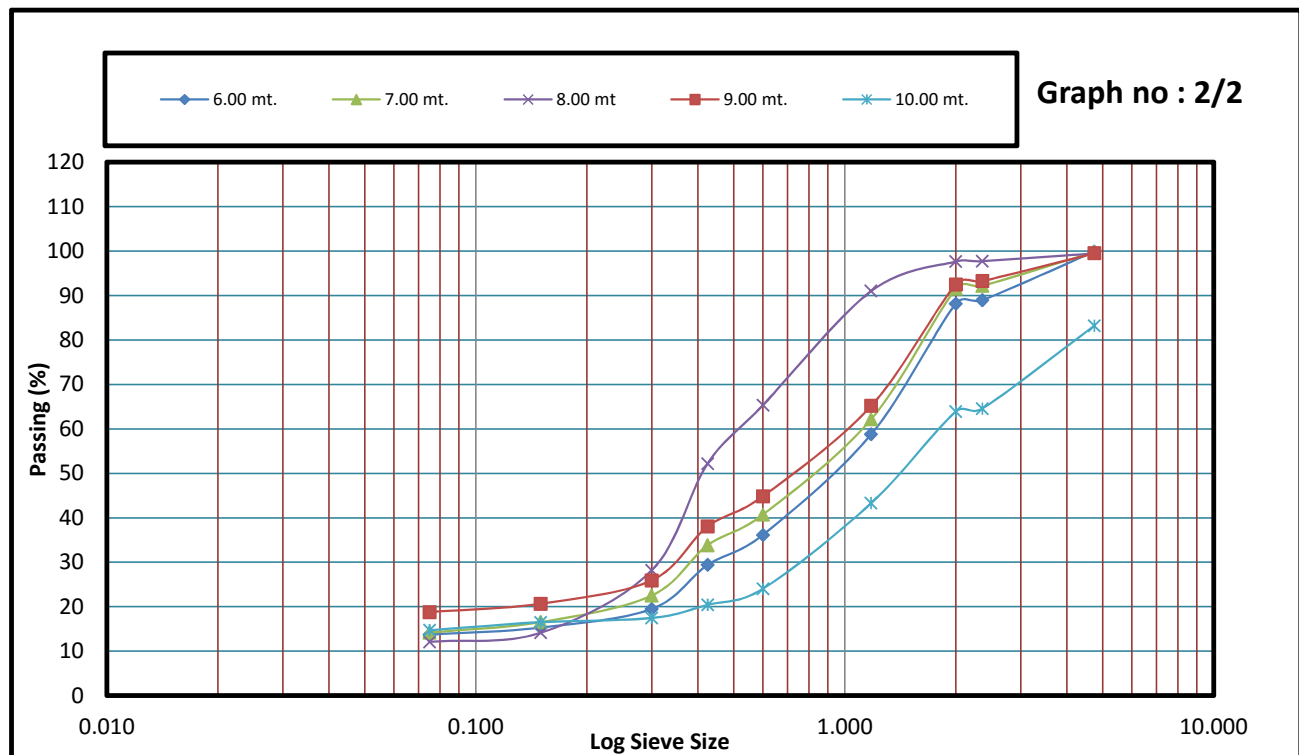
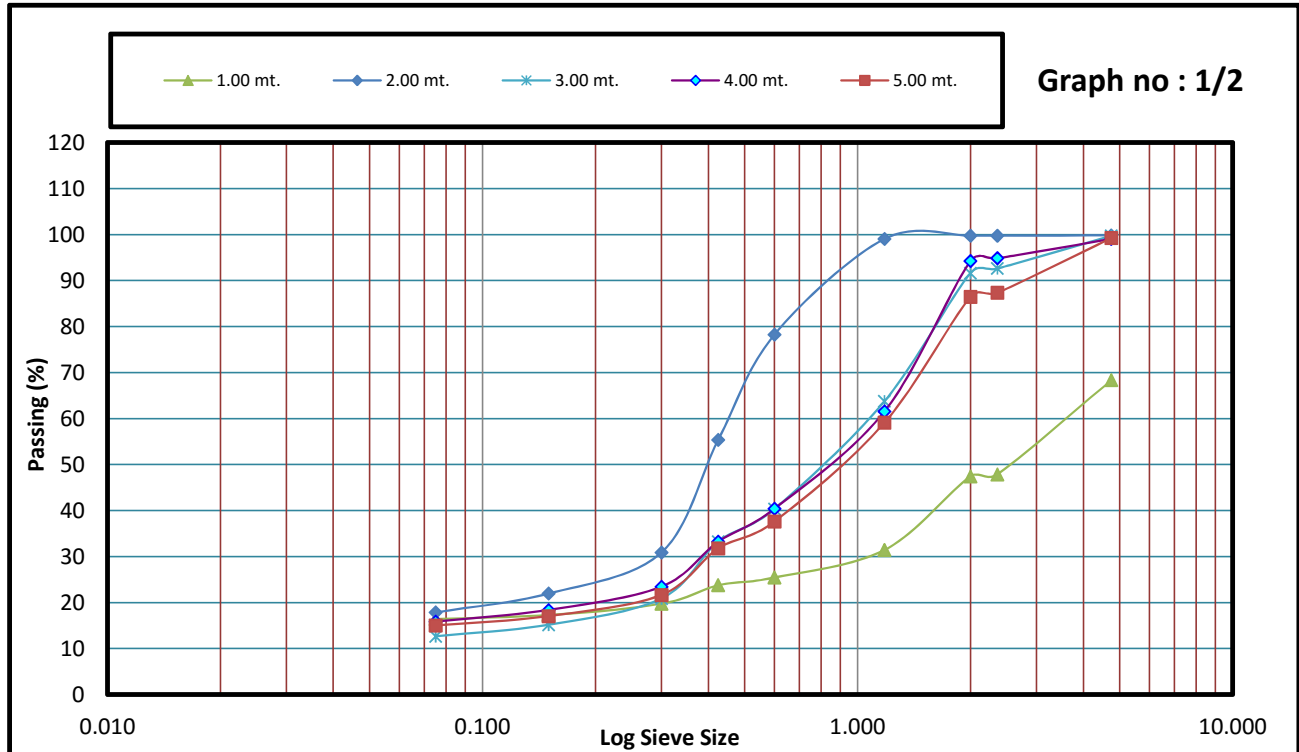
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:151, Alang/Sosiya, Gujarat.

**Plot No.:** 151



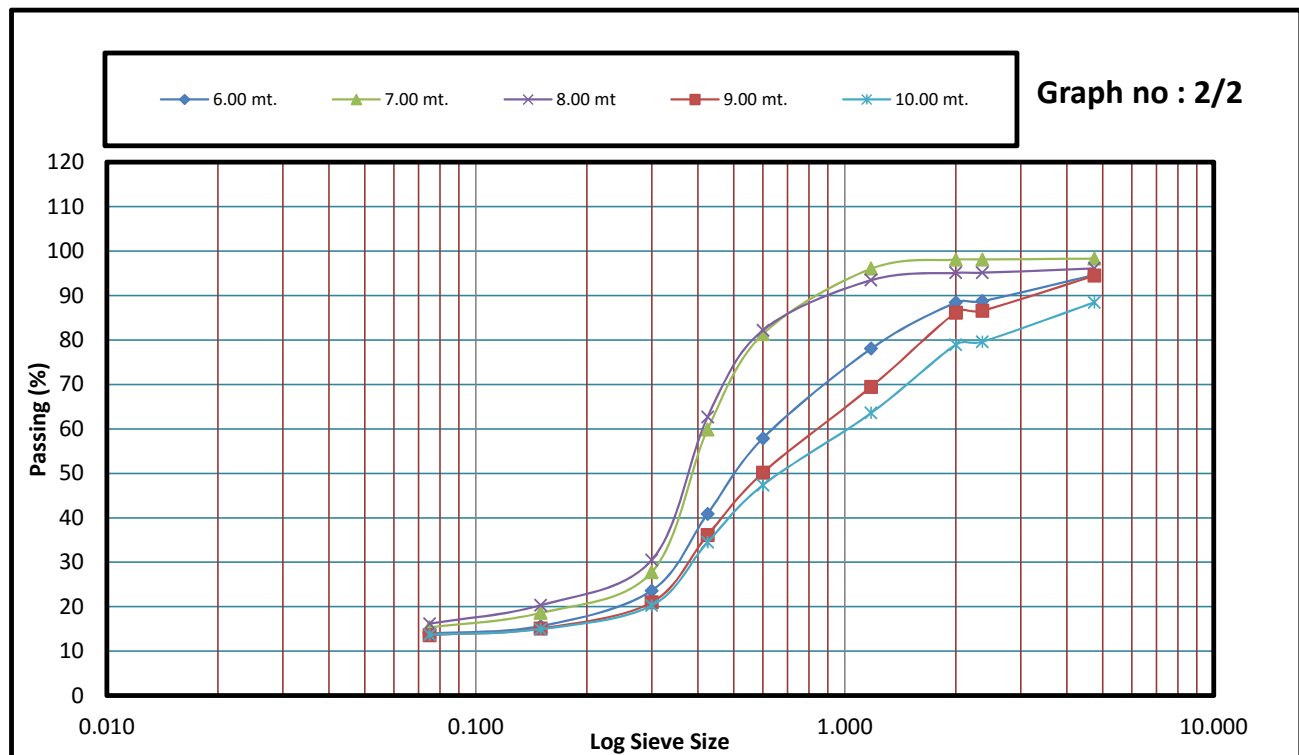
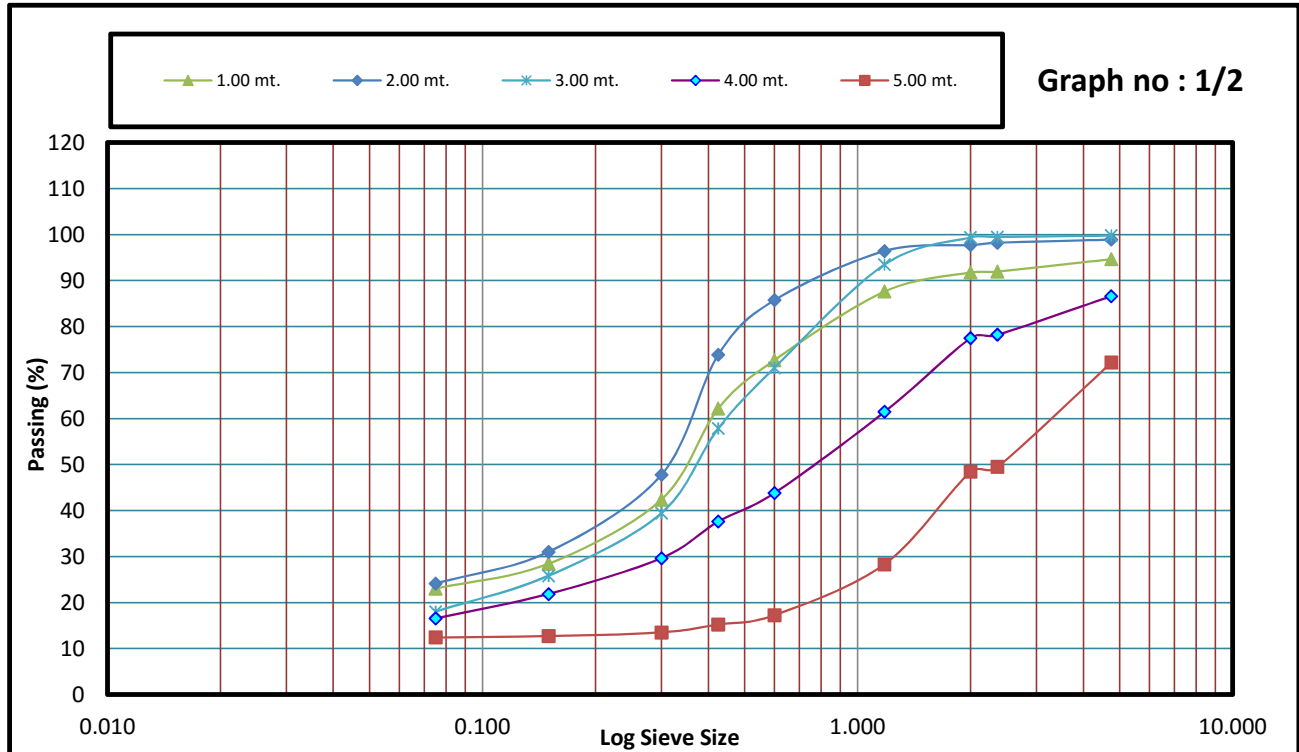
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:153-M, Alang/Sosiya, Gujarat.

**Plot No.:** 153-M



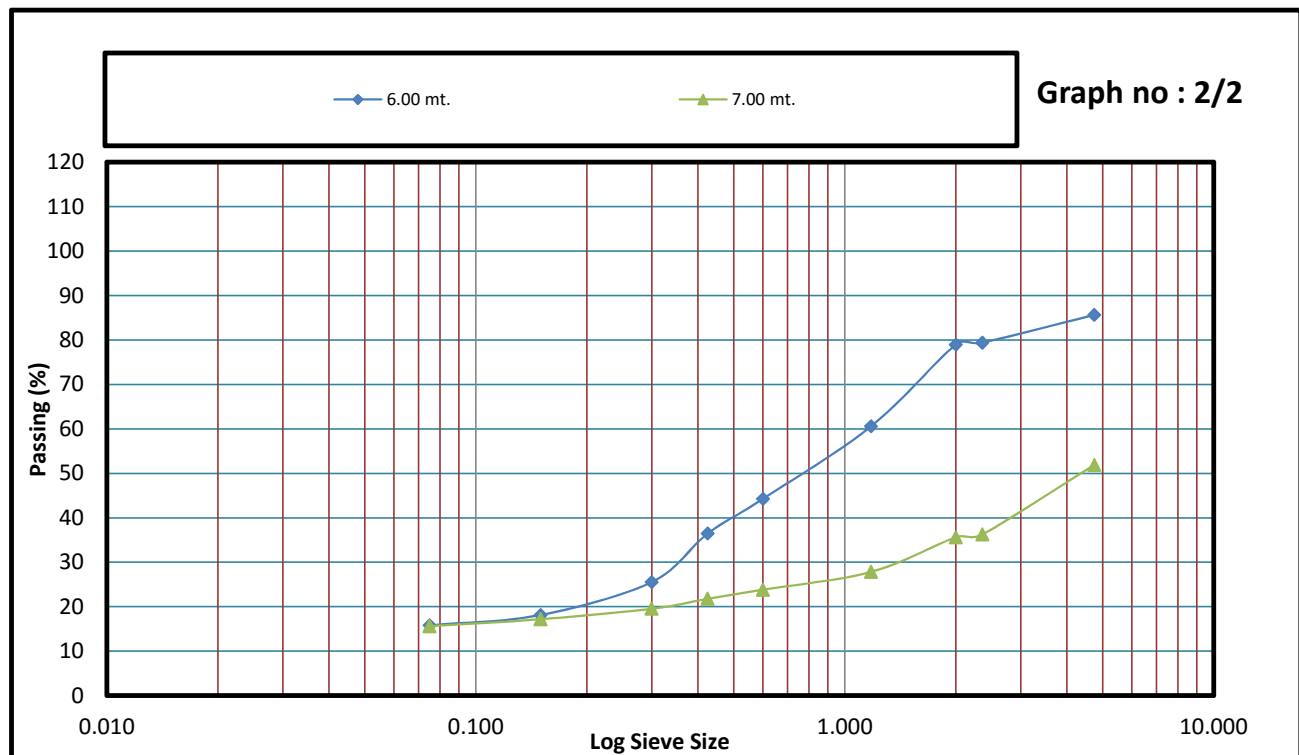
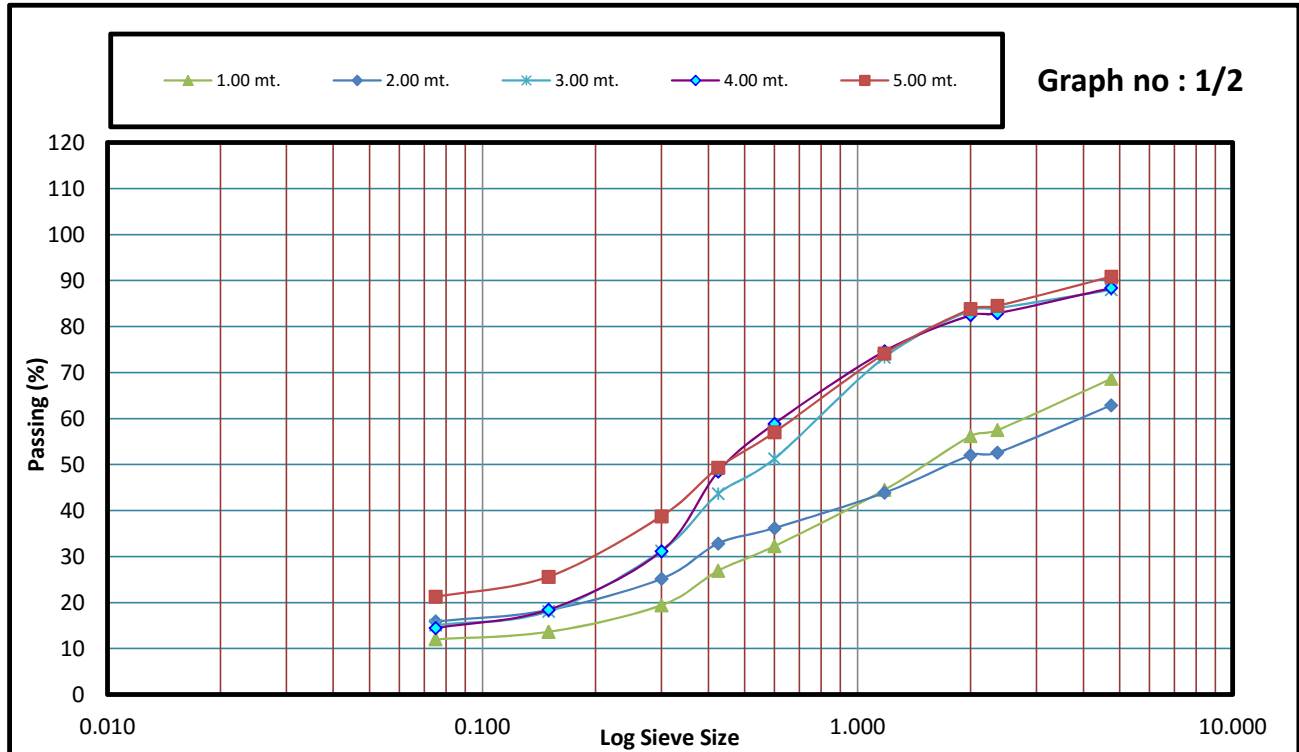
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 7.00 mt.

**LOCATION :** At Plot No.:155-156, Alang/Sosiya, Gujarat.

**Plot No.:** 155-156



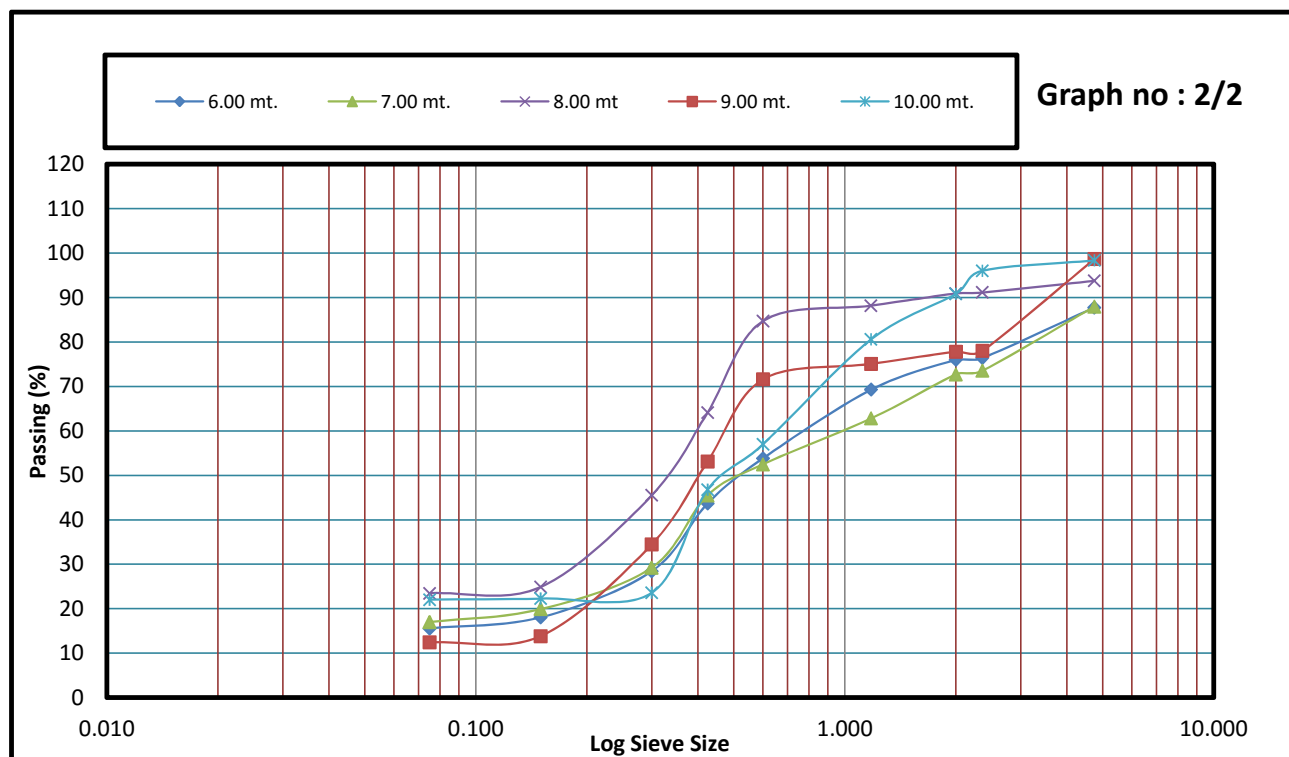
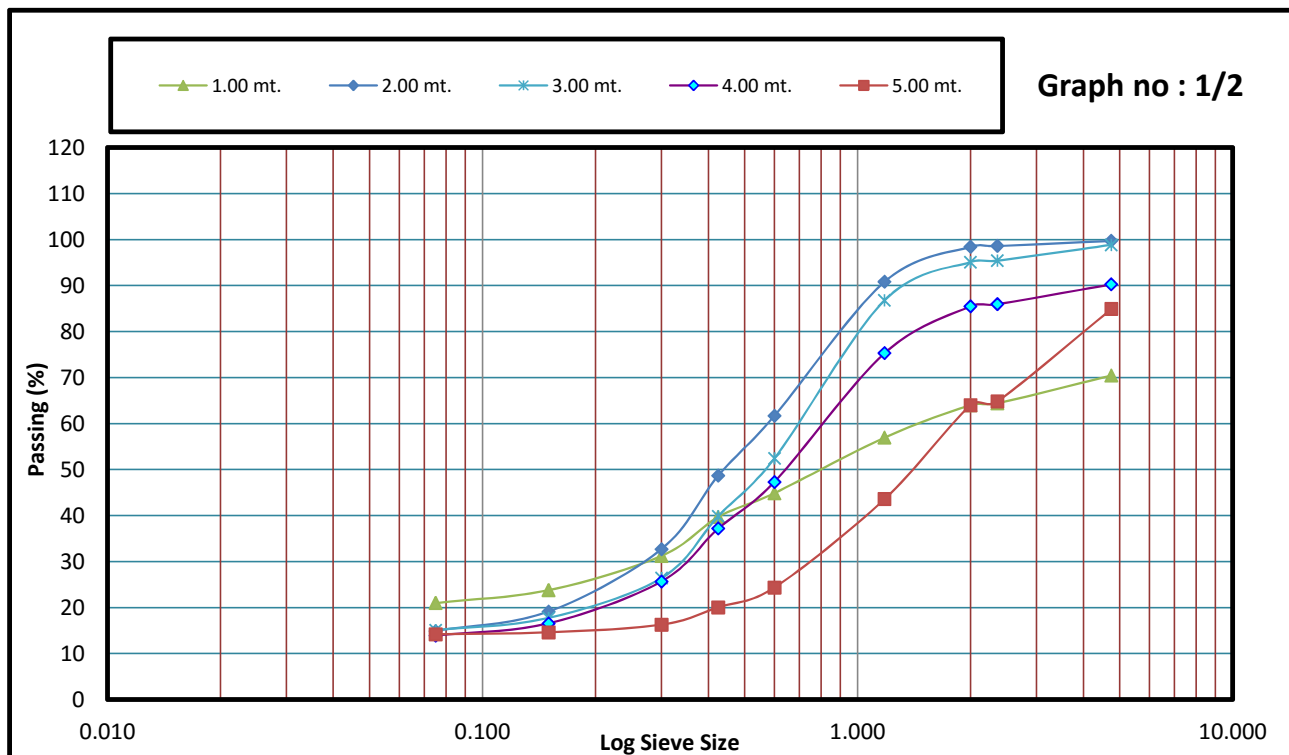
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:160, Alang/Sosiya, Gujarat.

**Plot No.:** 160



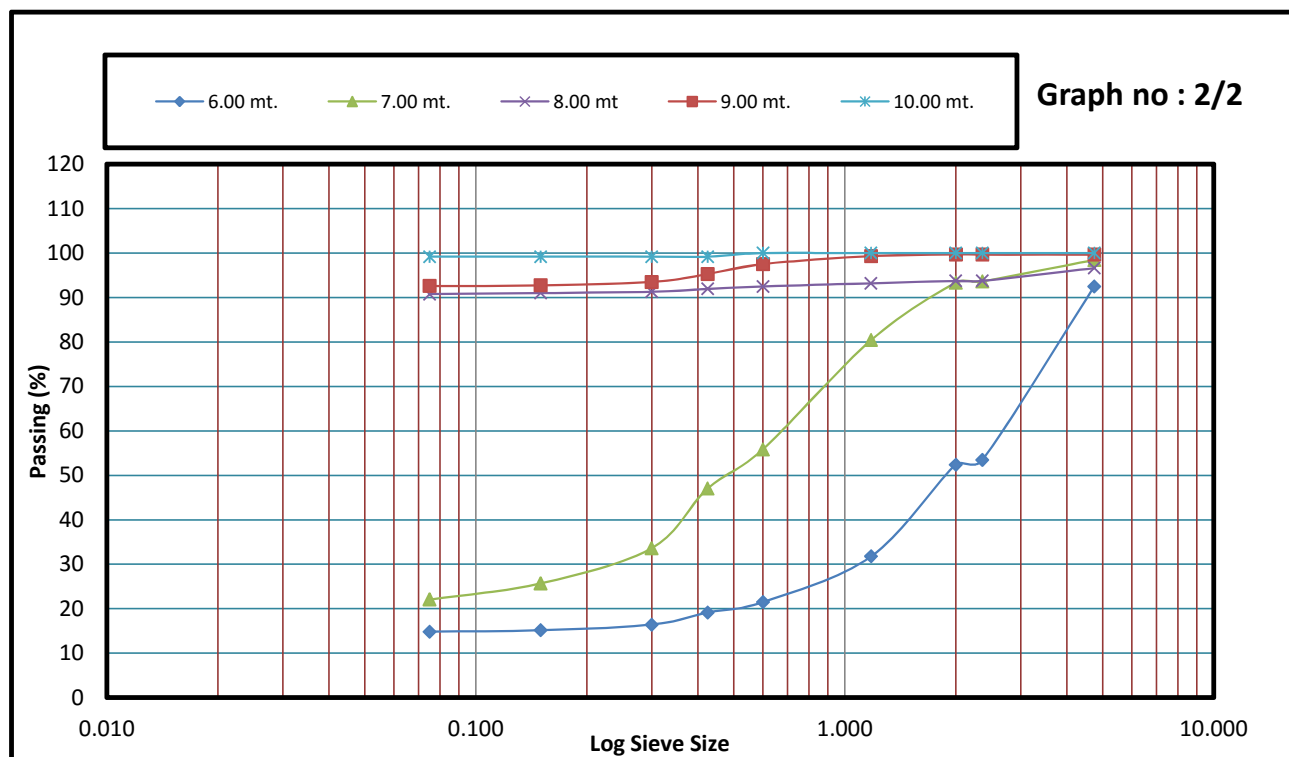
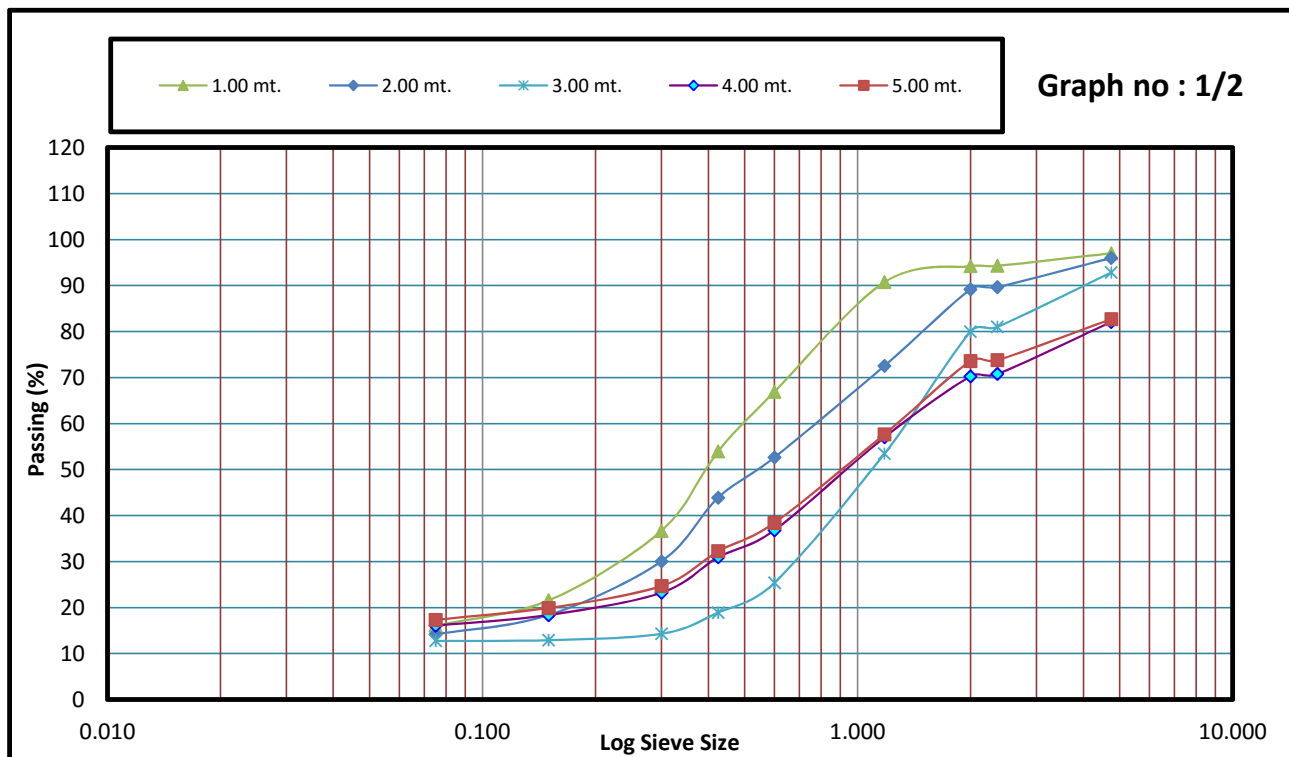
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:163, Alang/Sosiya, Gujarat.

**Plot No.:** 163



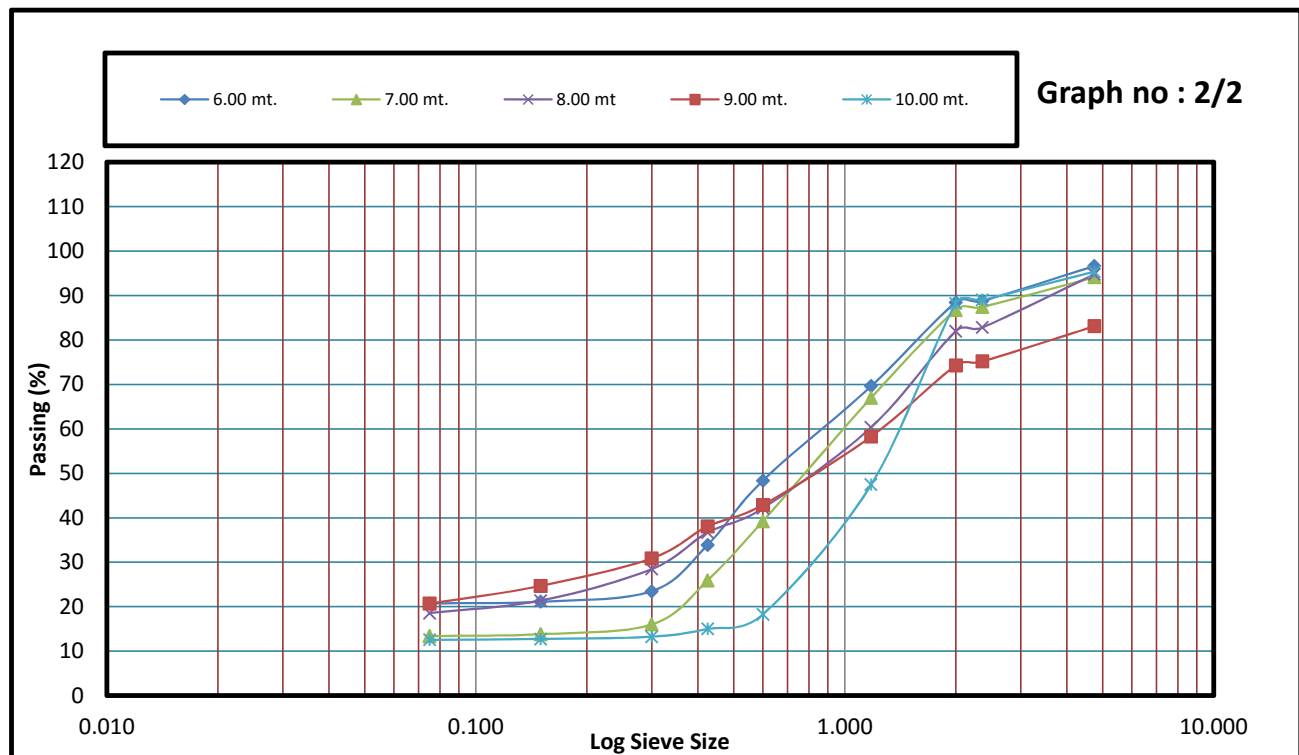
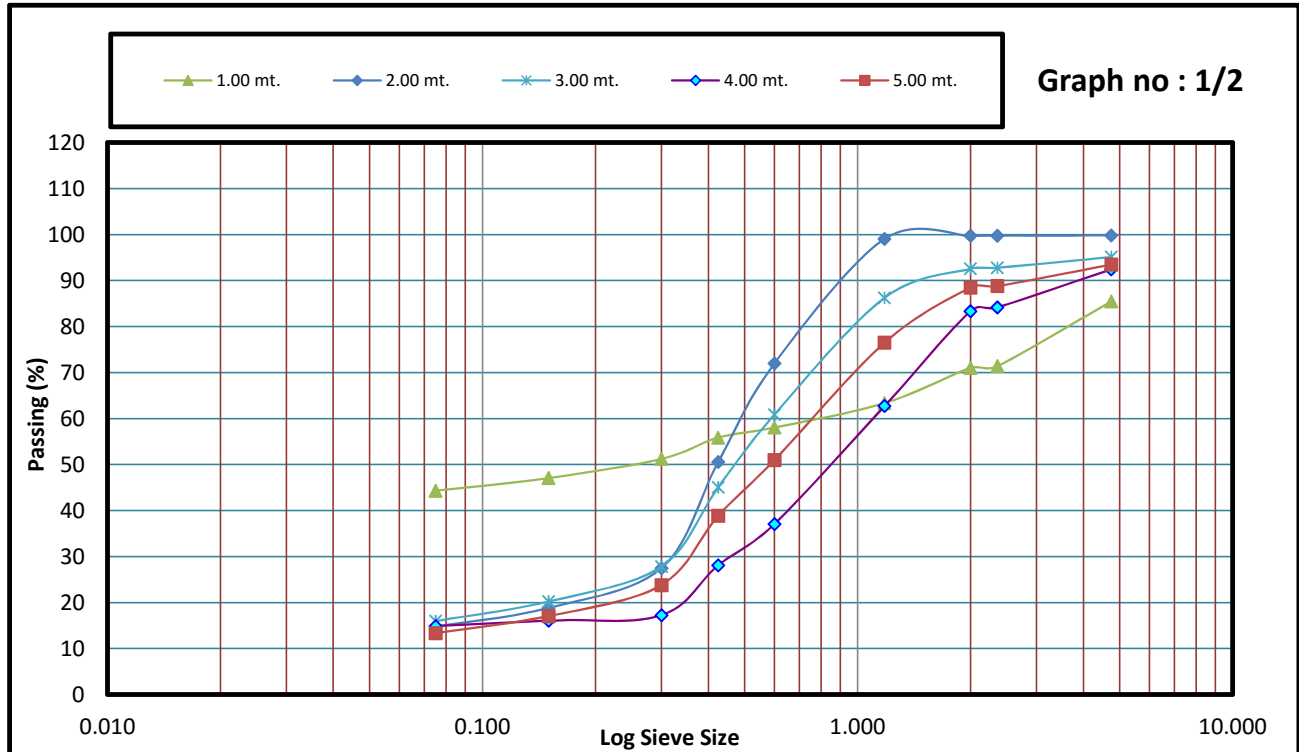
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-6, Alang/Sosiya, Gujarat.

**Plot No.:** V-6





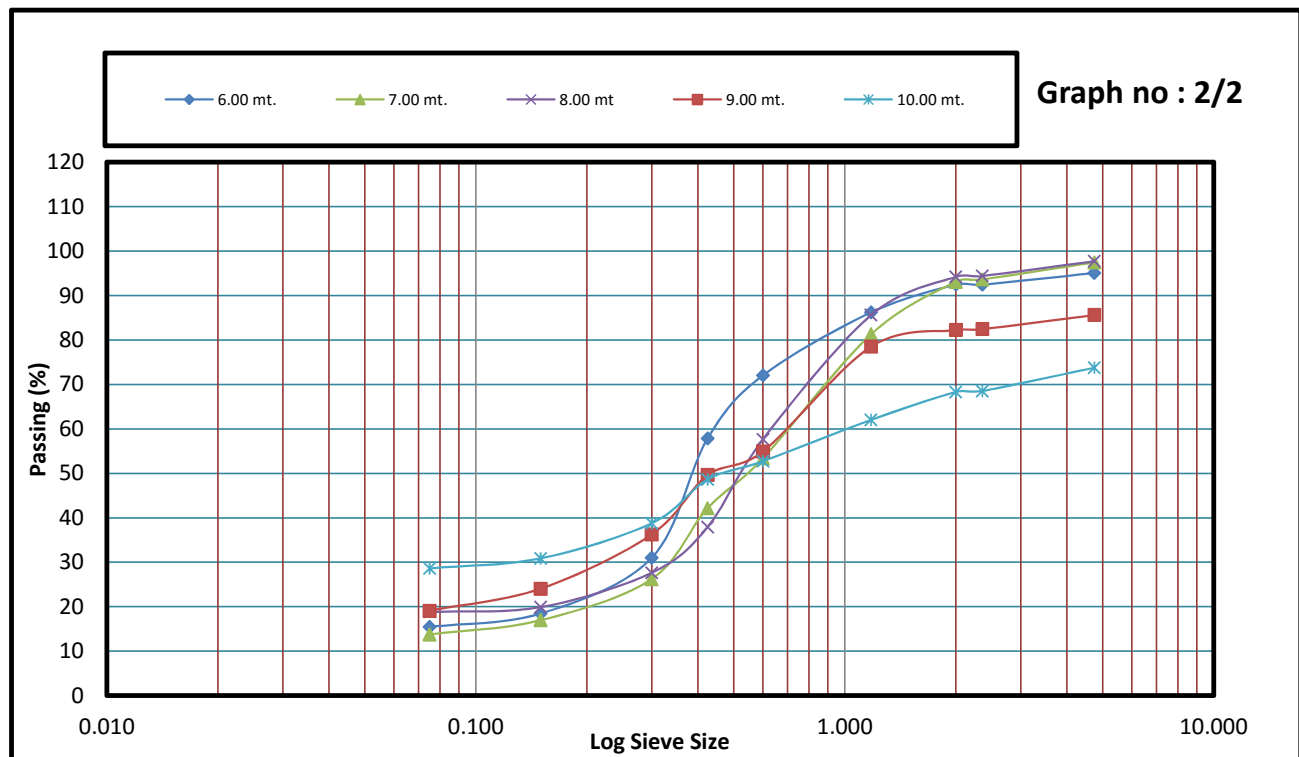
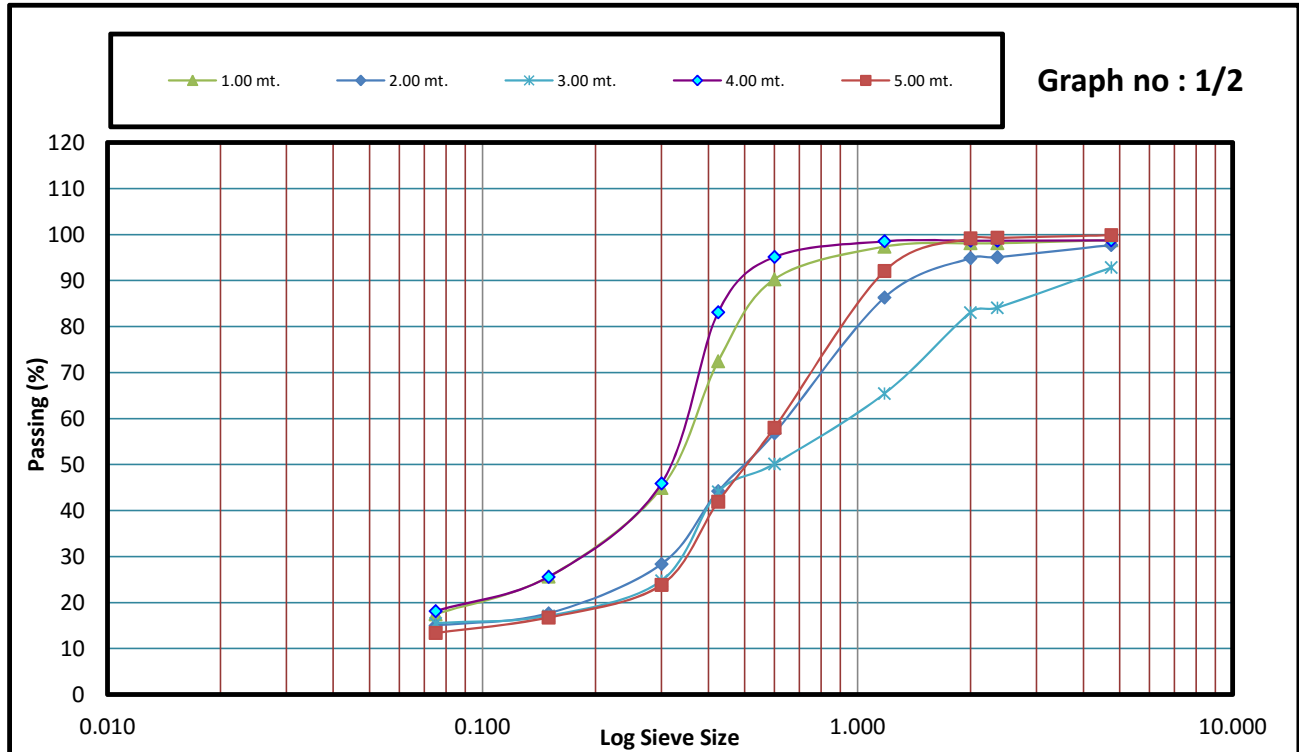
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-8, Alang/Sosiya, Gujarat.

**Plot No.:** V-8



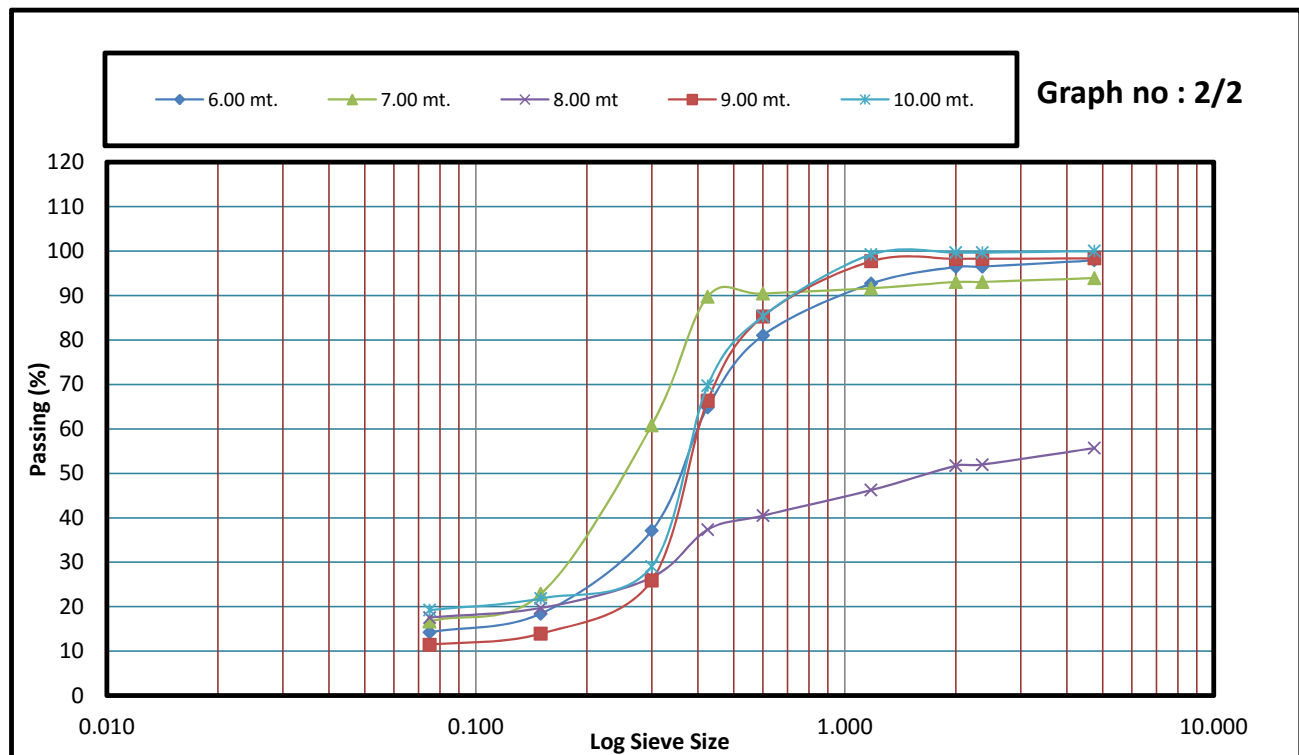
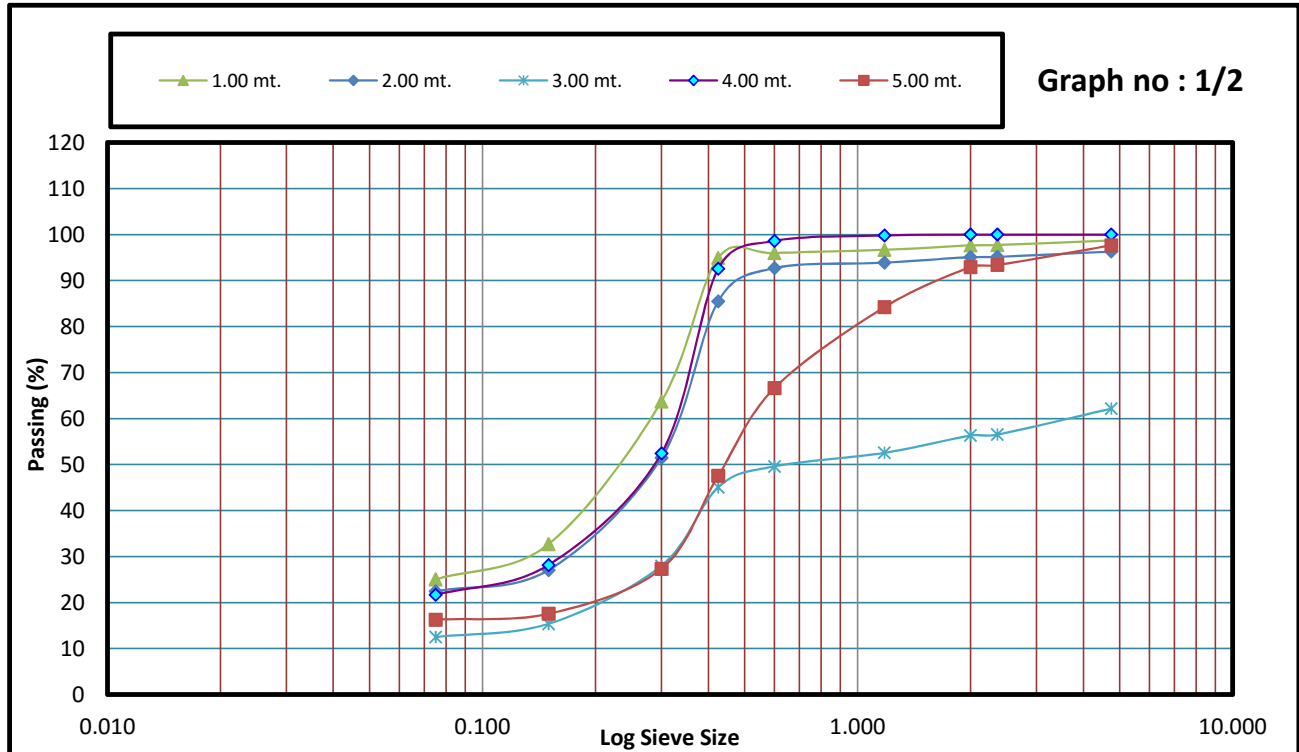
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-9, Alang/Sosiya, Gujarat.

**Plot No.:** V-9



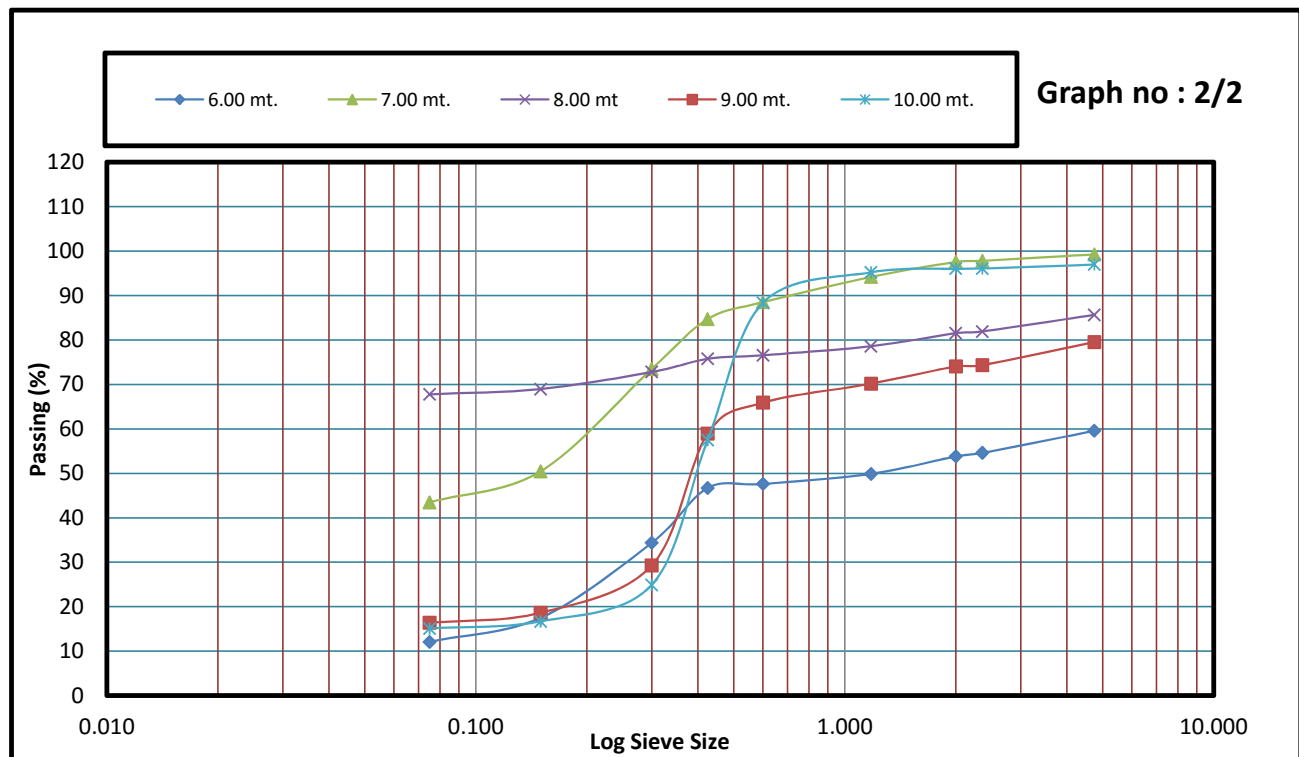
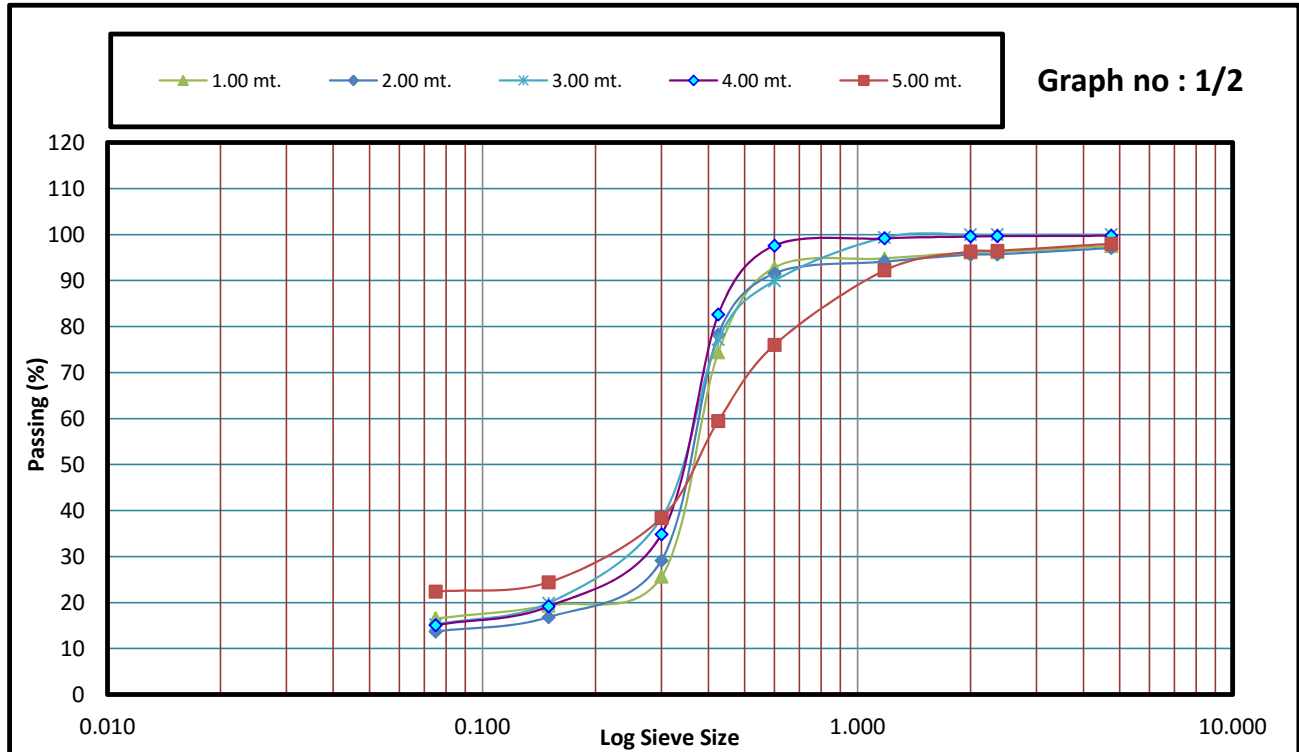
**Grain Size Analysis**

**PROJECT :** Geotechnical Investigation work for Preparatory Survey on The Ship Recycling Facilities Improving Project at Alang/Sosiya.

**DEPTH :** 10.00 mt.

**LOCATION :** At Plot No.:V-10, Alang/Sosiya, Gujarat.

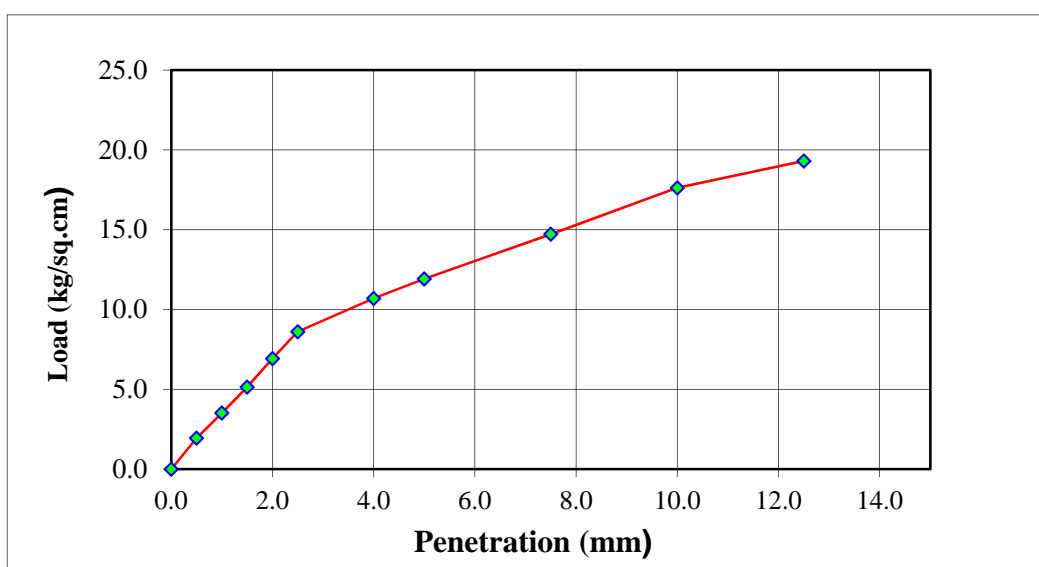
**Plot No.:** V-10



**ANNEXURE- 5**  
**LAB CBR TEST RESULTS**

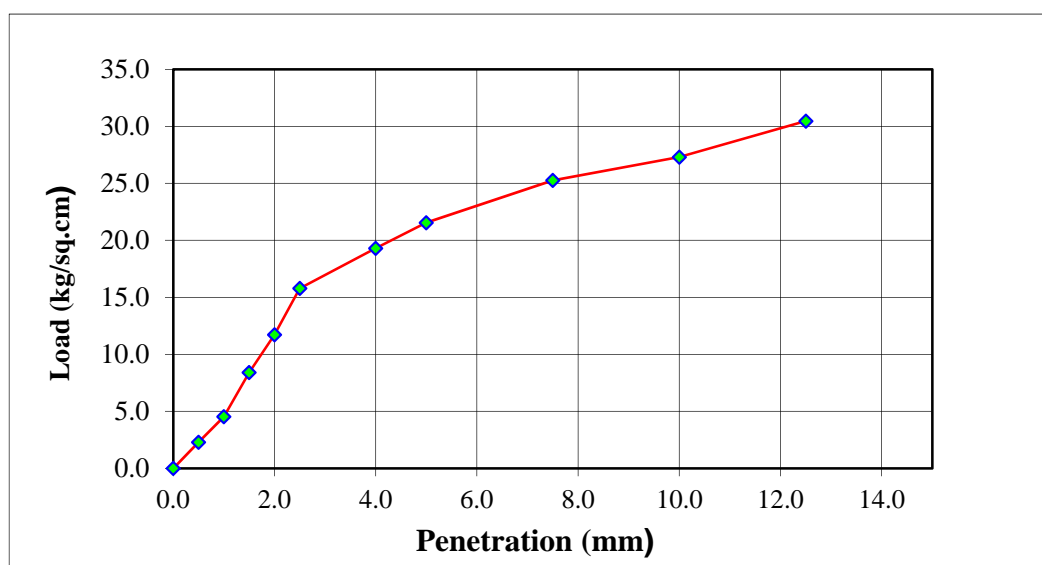
Plot No:10							
Easting: 207618.3522							
Northing: 2368709.7747							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
8	72	20	--	NP	--	1.87	12.34

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	38.20	1.95	
1.00	69.00	3.51	
1.50	101.00	5.14	
2.00	136.00	6.93	
2.50	169.00	8.61	<b>12.34</b>
4.00	210.00	10.70	
5.00	234.00	11.92	<b>11.39</b>
7.50	289.00	14.72	
10.00	346.00	17.62	
12.50	379.00	19.30	



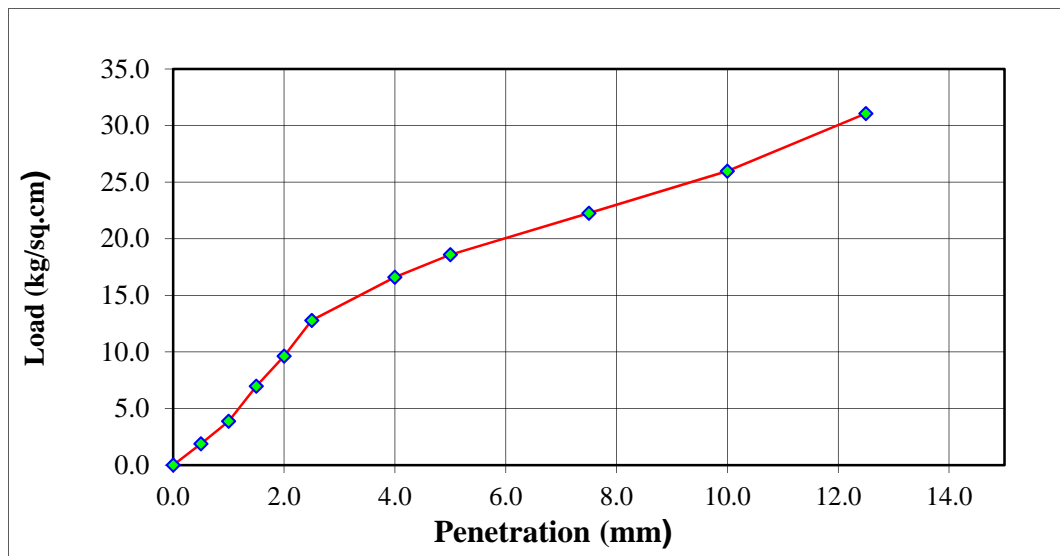
Plot No:23							
Easting: 206937.2852							
Northing: 2368014.7963							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
12	76	12	--	NP	--	1.90	22.63

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	45.00	2.29	
1.00	89.00	4.53	
1.50	165.00	8.40	
2.00	230.00	11.71	
2.50	310.00	15.79	<b>22.63</b>
4.00	379.00	19.30	
5.00	423.00	21.54	<b>20.58</b>
7.50	496.00	25.26	
10.00	536.00	27.30	
12.50	598.00	30.46	



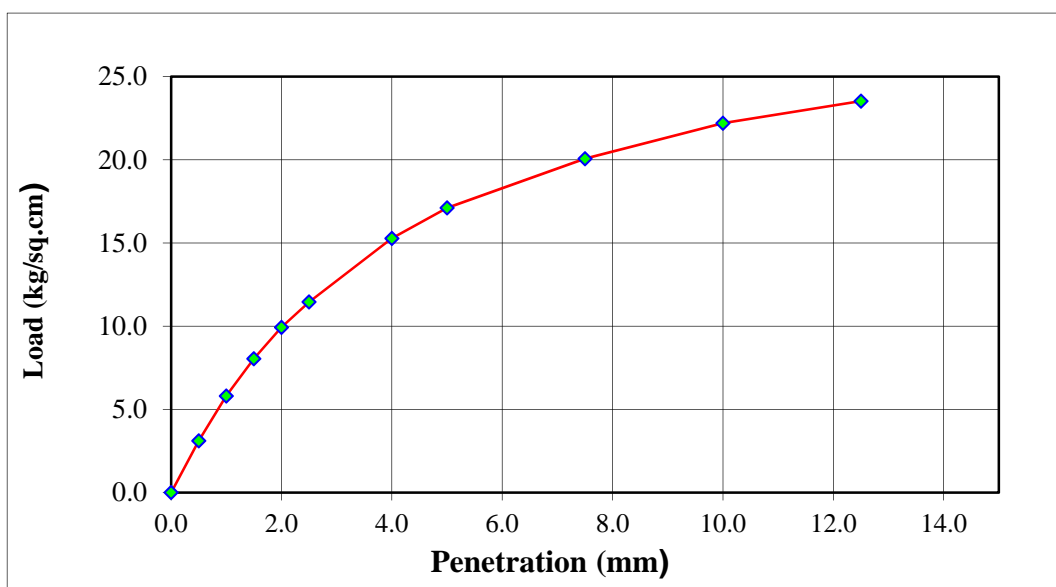
Plot No: 25							
Easting: 208254.6028							
Northing: 2369223.6926							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
6	80	14	--	NP	--	1.91	18.32

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	37.00	1.88	
1.00	76.00	3.87	
1.50	137.00	6.98	
2.00	189.00	9.63	
2.50	251.00	12.27	<b>18.32</b>
4.00	326.00	16.60	
5.00	365.00	18.59	<b>17.76</b>
7.50	437.00	22.26	
10.00	510.00	25.97	
12.50	610.00	31.07	



Plot No: 42							
Easting: 208963.6454							
Northing: 2369734.0028							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
11	73	16	--	NP	--	1.90	16.42

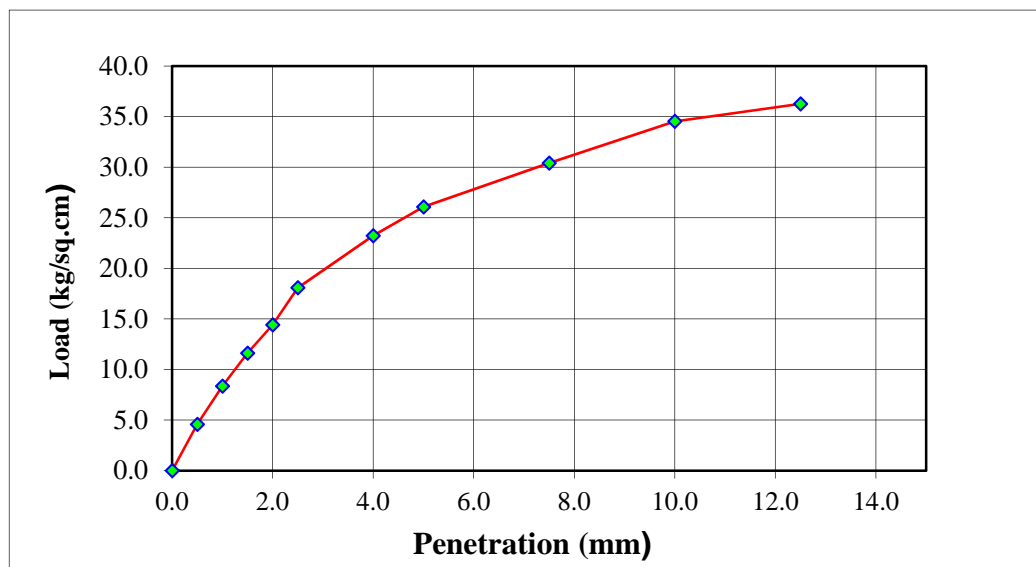
Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0	0.00	
0.50	61	3.11	
1.00	114	5.81	
1.50	158	8.05	
2.00	195	9.93	
2.50	225	11.46	<b>16.42</b>
4.00	300	15.28	
5.00	336	17.11	<b>16.35</b>
7.50	394	20.07	
10.00	436	22.21	
12.50	462	23.53	





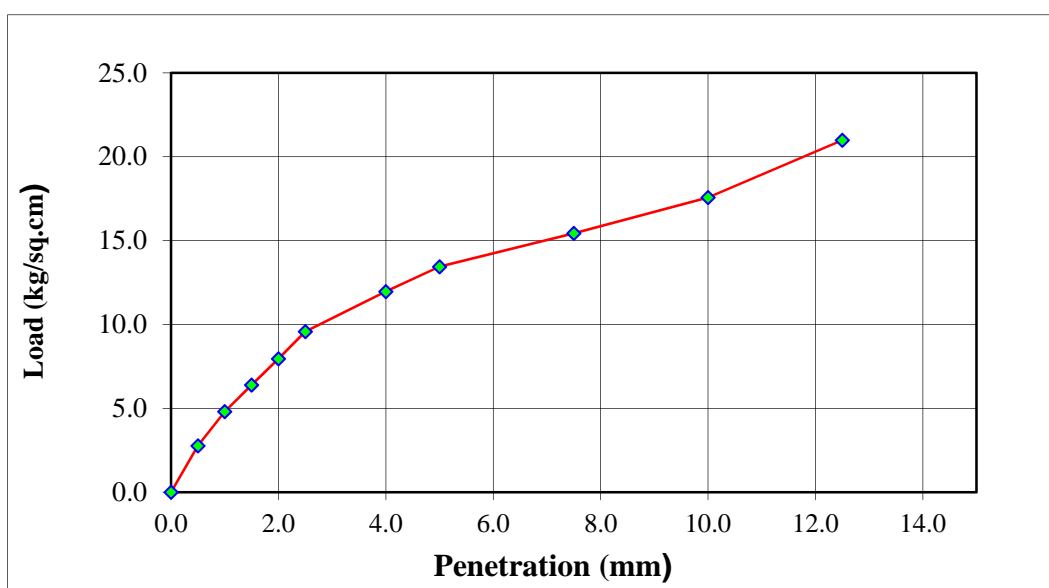
Plot No: 68							
Easting: 206490.7823							
Northing: 2367335.7142							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
16	68	16	--	NP	--	1.93	25.91

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	89.80	4.57	
1.00	164.00	8.35	
1.50	228.00	11.61	
2.00	282.90	14.41	
2.50	355.00	18.08	<b>25.91</b>
4.00	456.00	23.22	
5.00	512.00	26.08	<b>24.91</b>
7.50	597.00	30.40	
10.00	678.00	34.53	
12.50	712.00	36.26	



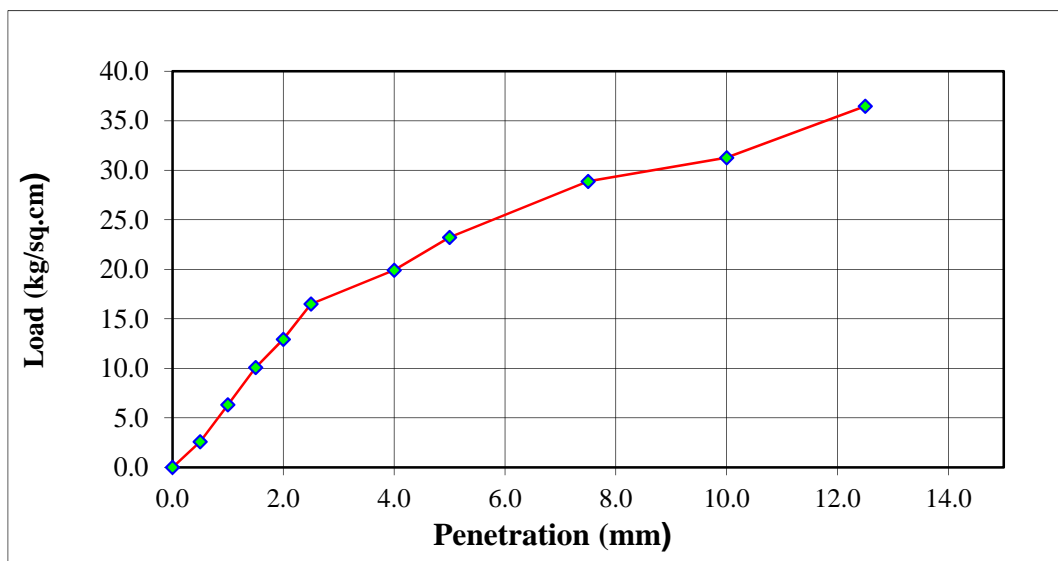
Plot No: 87							
Easting: 209554.5636							
Northing: 2370226.6332							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
6	75	19	--	NP	--		

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	54.40	2.77	
1.00	94.40	4.81	
1.50	125.60	6.40	
2.00	156.30	7.96	
2.50	188.00	9.57	<b>13.72</b>
4.00	235.00	11.97	
5.00	264.00	13.45	<b>12.85</b>
7.50	303.00	15.43	
10.00	345.00	17.57	
12.50	412.00	20.98	



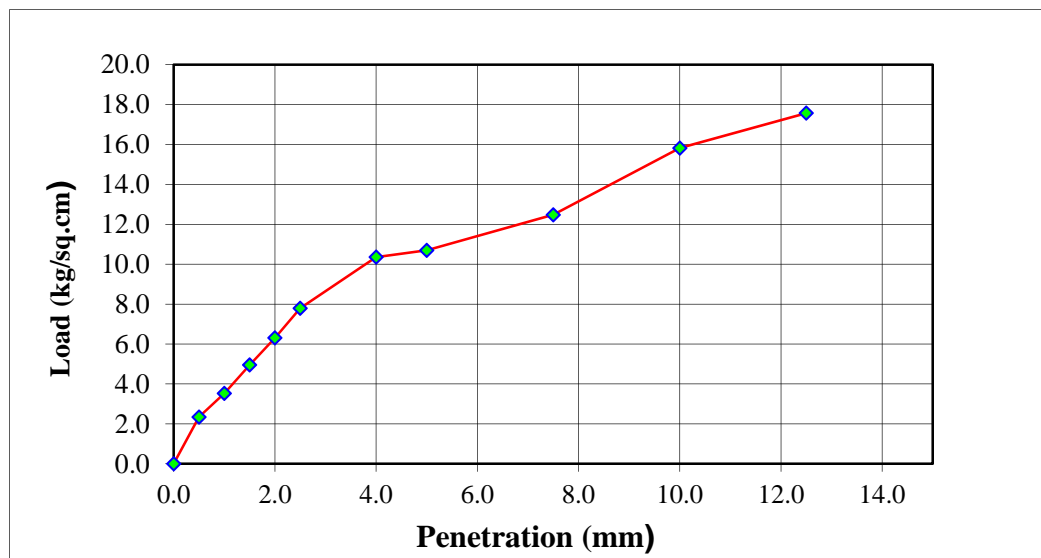
Plot No: 125							
Easting: 211056.0000							
Northing: 2371796.1716							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
10	77	13	--	NP	--	1.93	23.65

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	51.00	2.60	
1.00	124.00	6.32	
1.50	198.00	10.08	
2.00	254.00	12.94	
2.50	324.00	16.50	<b>23.65</b>
4.00	391.00	19.91	
5.00	456.00	23.22	<b>22.19</b>
7.50	567.00	28.88	
10.00	614.00	31.27	
12.50	716.00	36.47	



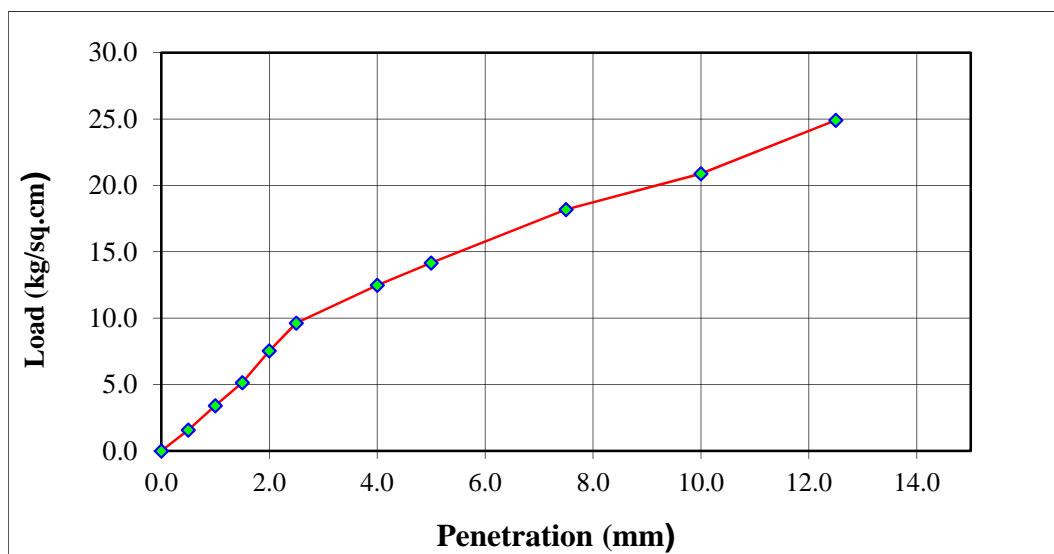
Plot No: 155-156							
Easting: 211524.2487							
Northing: 2372565.9701							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
4	67	29	--	NP	--	1.89	11.17

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	46.00	2.34	
1.00	69.30	3.53	
1.50	97.20	4.95	
2.00	123.80	6.31	
2.50	153.00	7.79	<b>11.17</b>
4.00	203.30	10.35	
5.00	210.00	10.70	<b>10.22</b>
7.50	245.00	12.48	
10.00	310.60	15.82	
12.50	345.00	17.57	



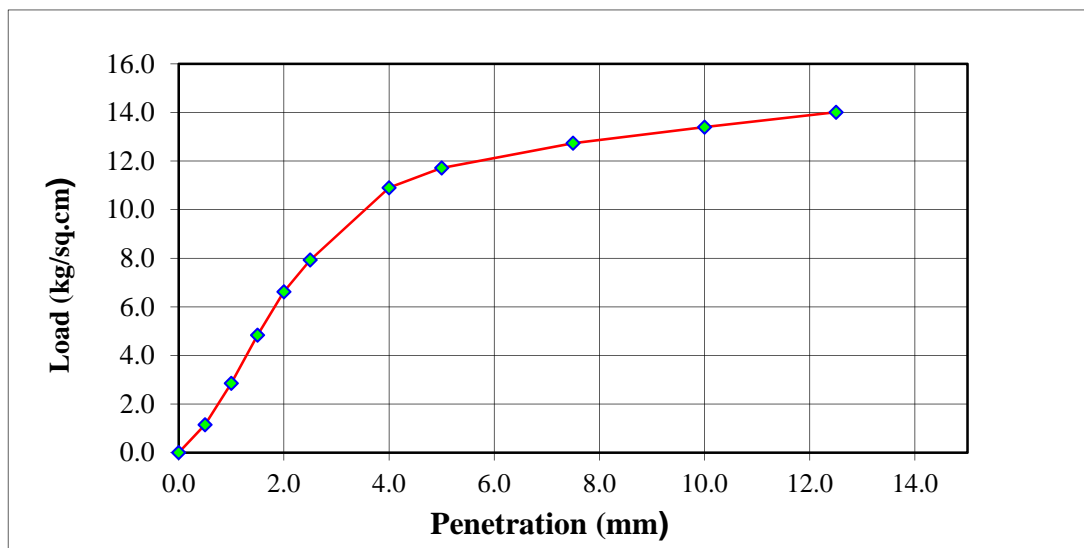
Plot No: V-3							
Easting: 210330.3852							
Northing: 2371102.9050							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
7	68	25	--	NP	--	1.89	13.80

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	31.00	1.58	
1.00	67.00	3.41	
1.50	101.00	5.14	
2.00	148.00	7.54	
2.50	189.00	9.63	<b>13.80</b>
4.00	245.00	12.48	
5.00	278.00	14.16	<b>13.53</b>
7.50	357.00	18.18	
10.00	410.00	20.88	
12.50	489.00	24.90	



Plot No: V-10							
Easting: 212329.5890							
Northing: 2373523.2741							
SIEVE ANALYSIS			ATTERBERG LIMITS			RELATIVE DRY DENSITY gm/cc	SOAKED CBR
Gravel (%)	sand (%)	silt & clay (%)	LL (%)	PL (%)	PI (%)		
7	65	28	--	NP	--	1.86	11.36

Load Penetration Data			
Penetration (mm)	Load Cell Reading (kg)	stress (kg/cm <sup>2</sup> )	Corrected CBR VALUE (from GRAPH)
0.00	0.00	0.00	
0.50	22.50	1.15	
1.00	56.00	2.85	
1.50	95.00	4.84	
2.00	130.00	6.62	
2.50	155.63	7.93	<b>11.36</b>
4.00	214.00	10.90	
5.00	229.95	11.71	<b>11.19</b>
7.50	250.00	12.73	
10.00	263.00	13.39	
12.50	275.00	14.01	



**ANNEXURE- 6**  
**PHOTOGRAPHS**





2-255

# DRILLING WORK AT SITE





ATTERBERG'S LIMIT



GRAINSIZE ANALYSIS



SAMPLE OVEN DRYING PROCESS



SPECIFIC GRAVITY





FIELD DENSITY & MOISTURE CONTENT MEASUREMENT



CBR TESTING

**ANNEXURE- 7**  
**GEOLOGICAL MAP**

# District : Bhavnagar



## Geological Map



COMMISSIONERATE OF GEOLOGY AND MINING  
Industries and Mines Department, Government of Gujarat

The Map shows information regarding geological formations of different ages and their respective lithology.

### Geology:

#### LITHOLOGY

- ALLUVIUM BLOWN SAND
- MILLIOLITE LIMESTONE
- GYPSIFEROUS CLAYS, LIGNITE & SANDY LIMESTONES
- LATERITE
- ACID, ALKALINE INTRUSIVE
- TRAP

#### AGE

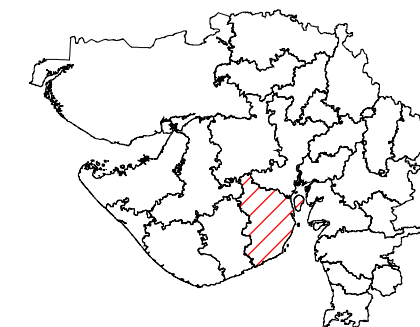
- RECENT- HOLOCENE
- PLEISTOCENE
- MIOCENE
- PALAEOCENE TO EOCENE
- PALAEOCENE TO UPPER CRETACEOUS
- LOWER EOCENE TO UPPER CRETACEOUS

### Legend:

- District Boundary
- Taluka Boundary
- District Headquarter
- Taluka Headquarter
- Mudflat

### Location Index:

GUJARAT

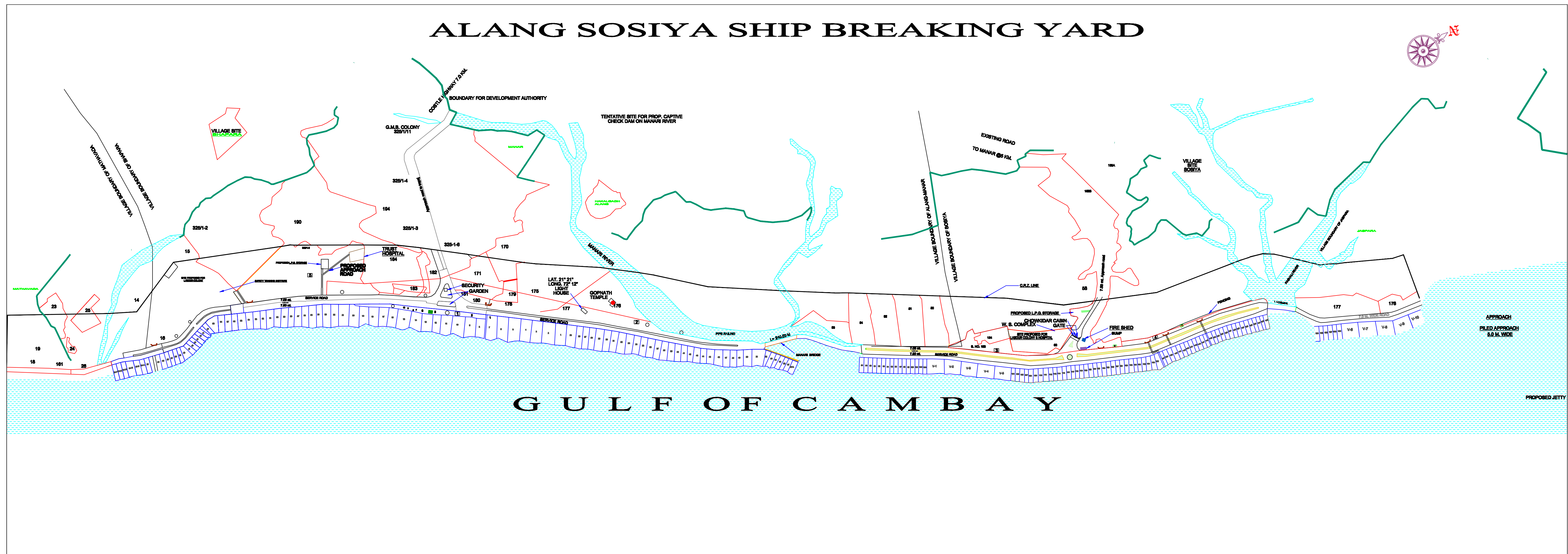


District : Bhavnagar



**ANNEXURE- 8**  
**LOCATION PLAN**





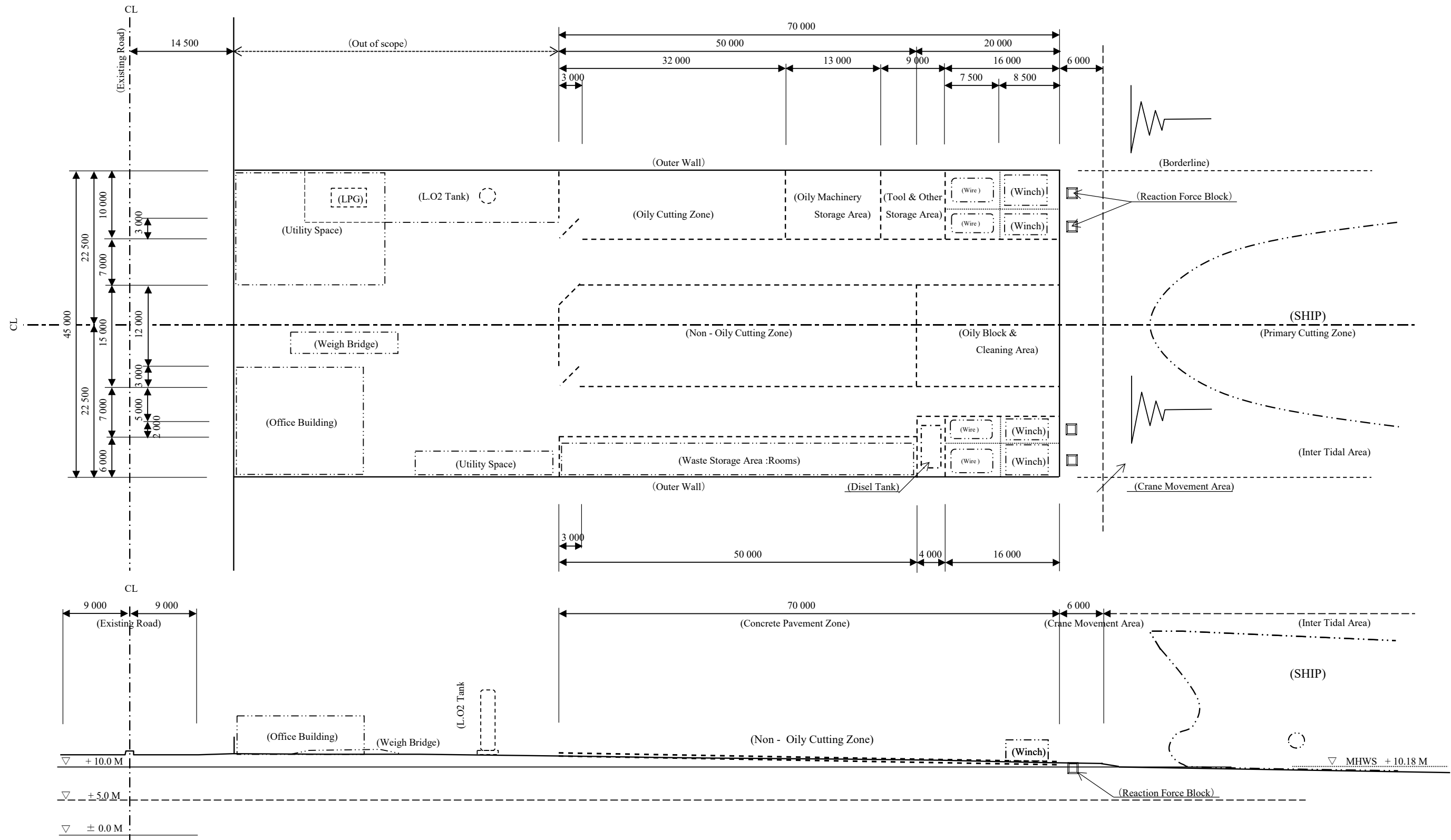




## Appendix 3 Facility Drawings



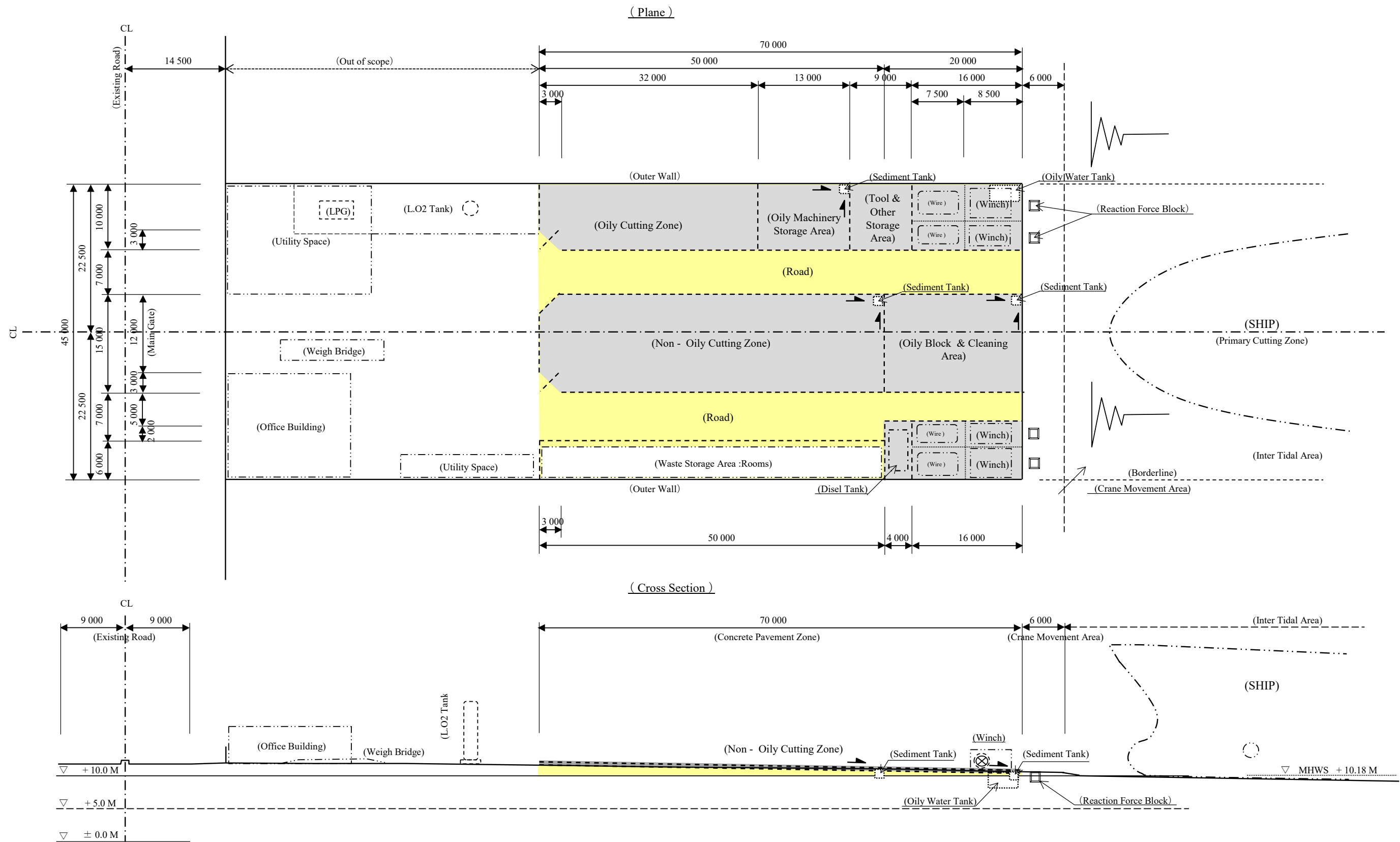
Plan -1 (W:45.0m\*L:70.0m)



PROJECT PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PROJECT IN INDIA	CLIENT GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)	SCALE	1 / 500	DWG TITLE PLOT NO.XX Wide : 45.0M	DWG NO. PLD-01
		CONSULTANT JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.			



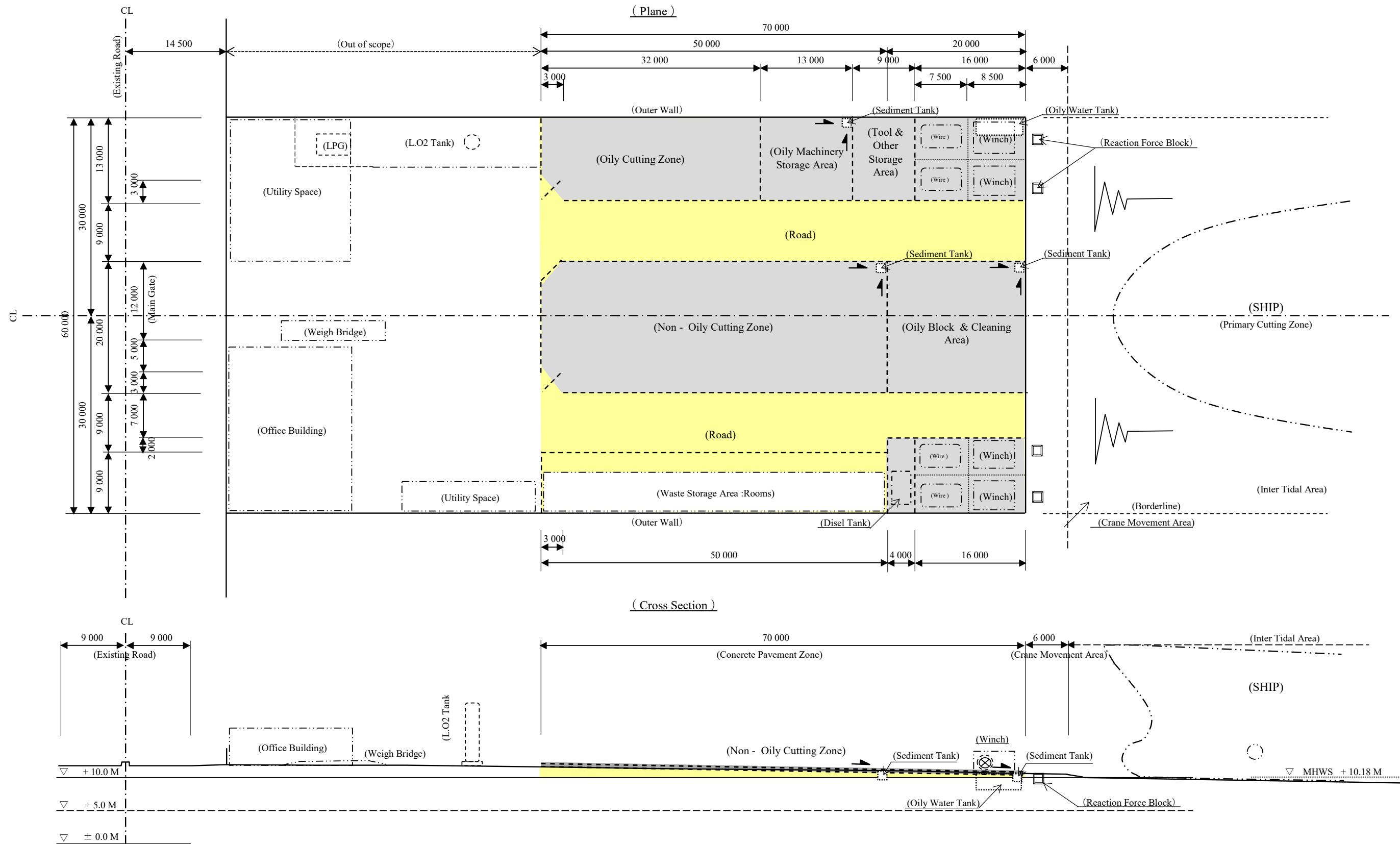
Plan -1 (W:45.0m\*L:70.0m)



PROJECT PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PROJECT IN INDIA	CLIENT GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)	SCALE	1 / 500	DWG TITLE PLOT NO.XX Wide : 45.0M	DWG NO. PLD-01
		CONSULTANT JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.			



Plan -2 (W:60.0m\*L:70.0m)

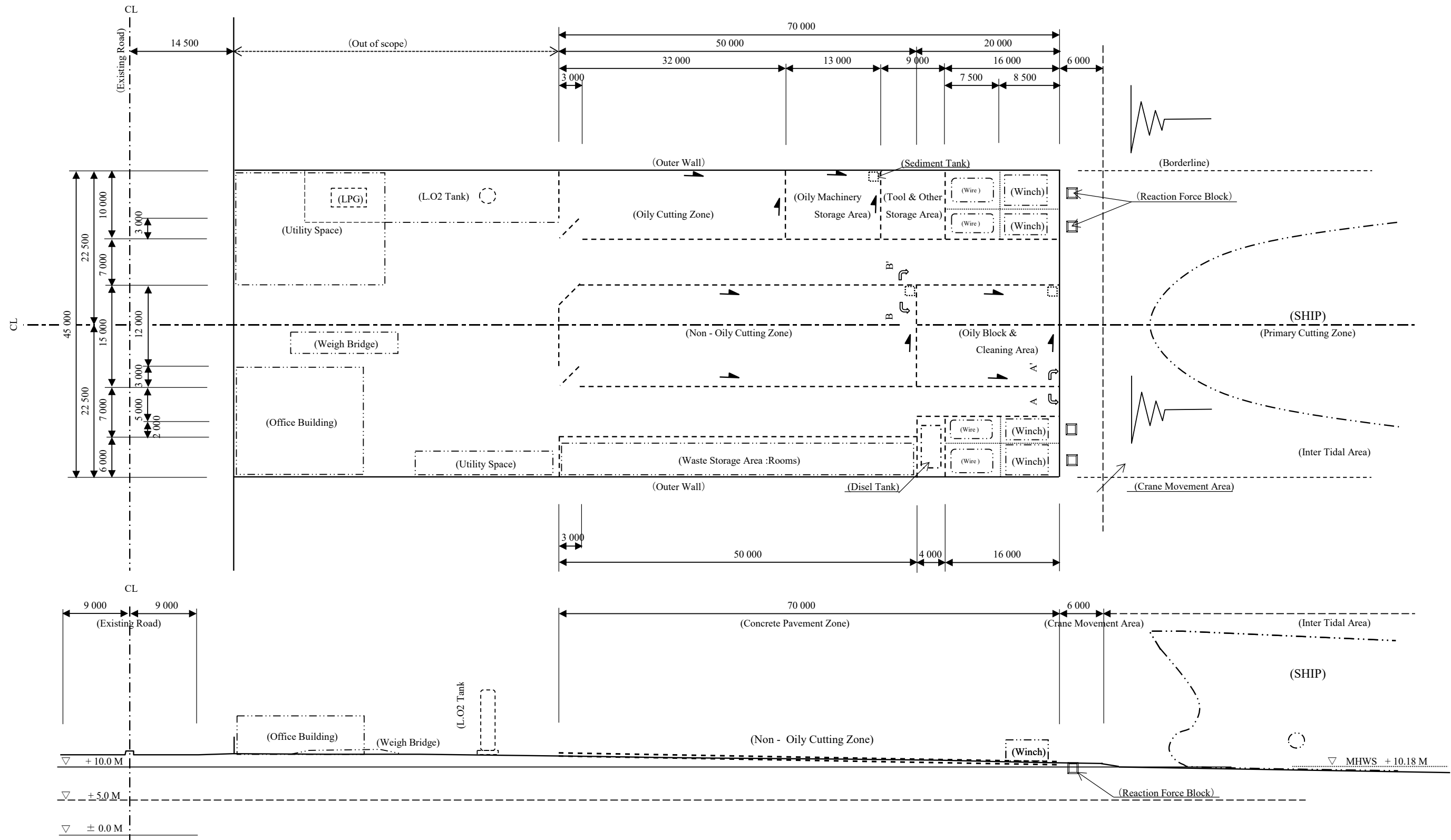


PROJECT PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PERJECT IN INDIA	CLIENT GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)	SCALE	1 / 500	DWG TITLE PLOT NO.XX Wide : 60.0M	DWG NO. PLD-02
		CONSULTANT JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.			





Plan -1 (W:45.0m\*L:70.0m)



PROJECT PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PROJECT IN INDIA	CLIENT GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)	SCALE	1 / 500	DWG TITLE PLOT NO.XX Wide : 45.0M	DWG NO. PLD-01
		CONSULTANT JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.			

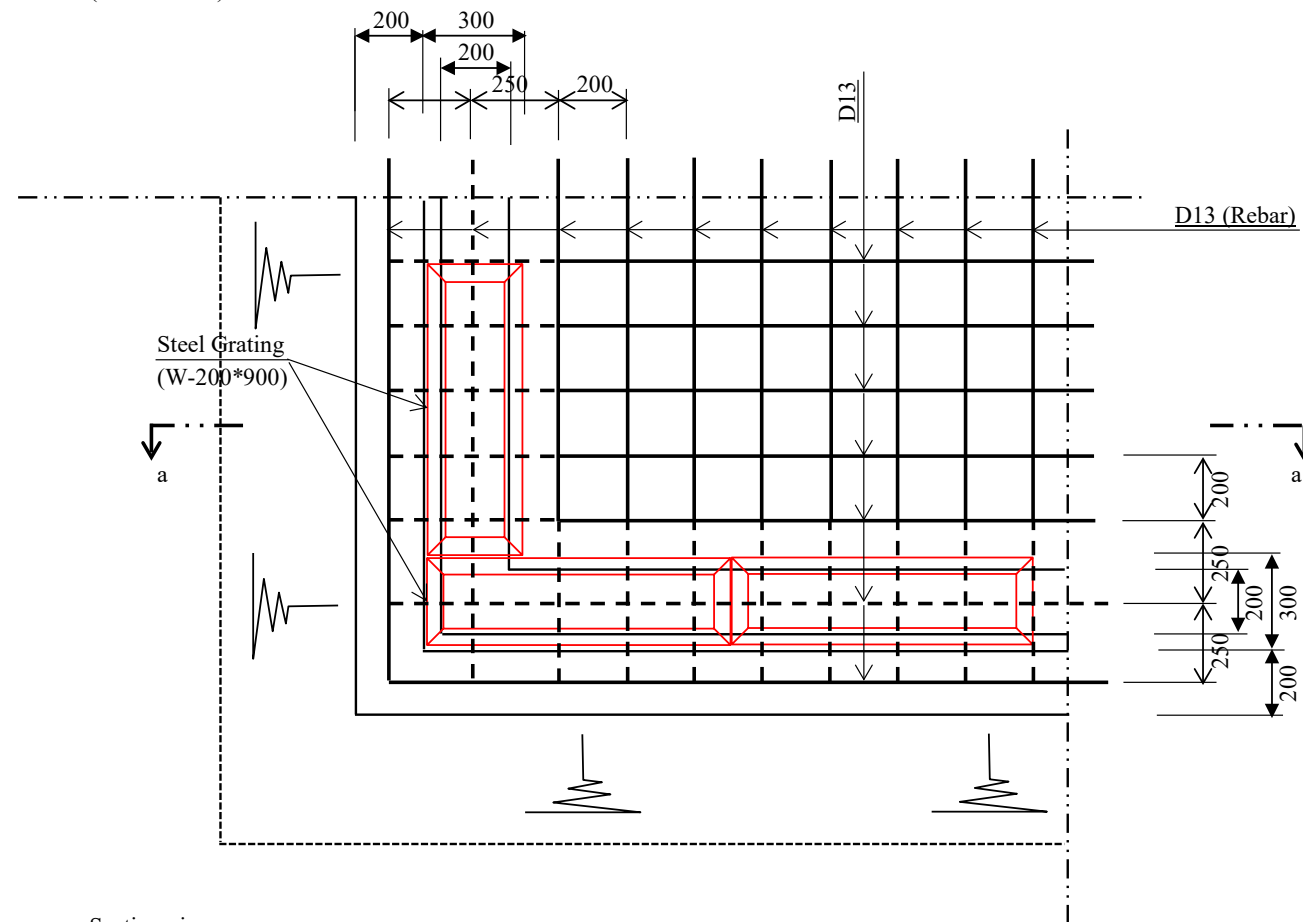




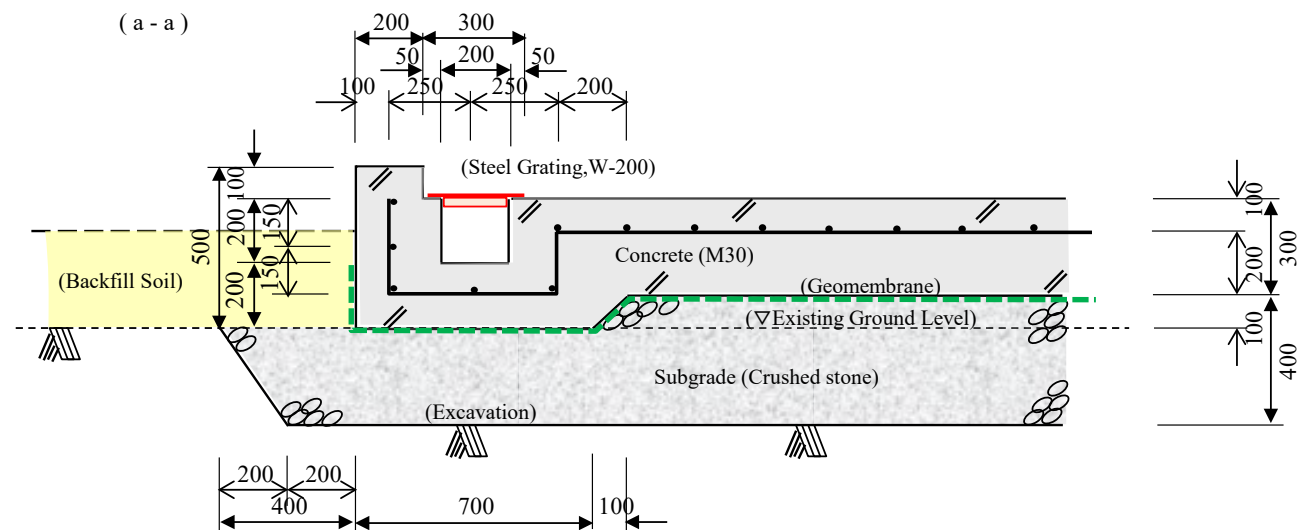


Detail view - Culvert & Drainage pit

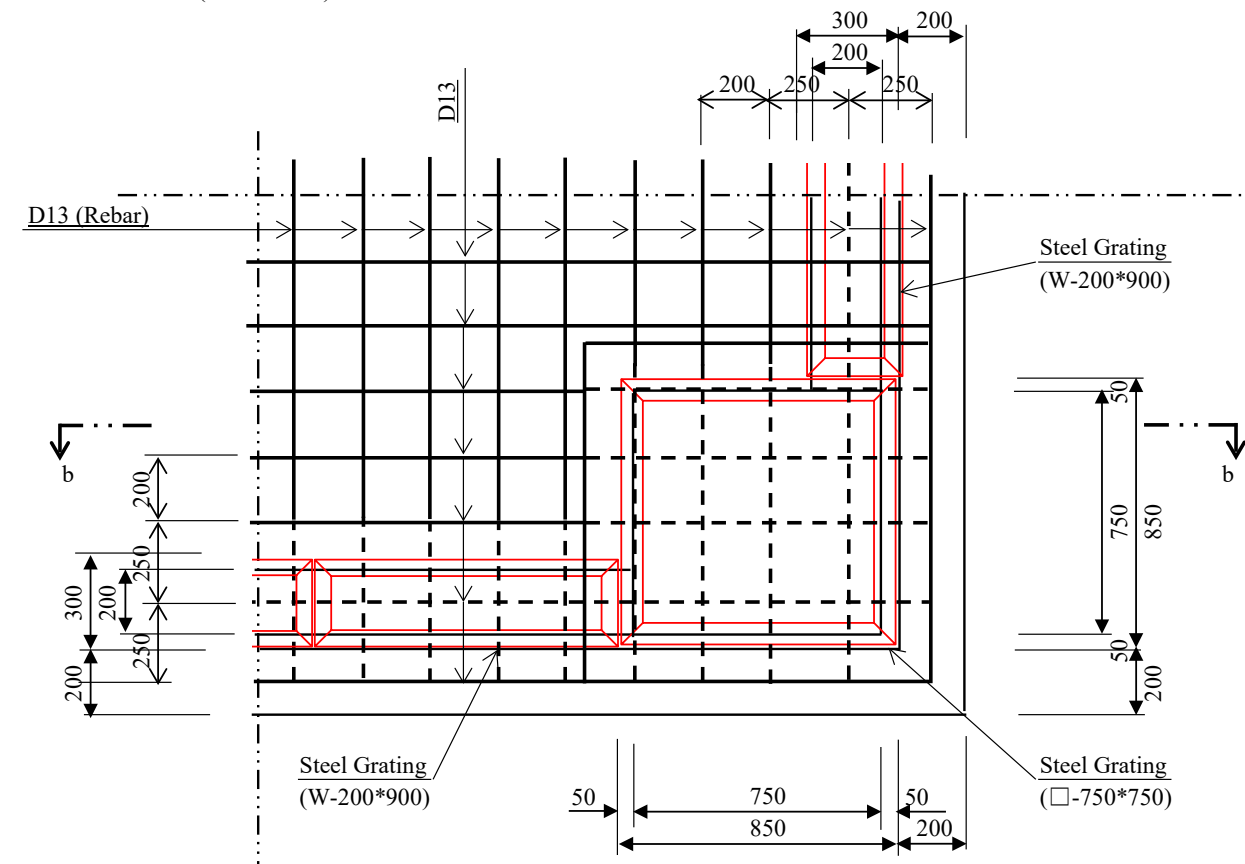
Side Ditch  
(sect. A - A')



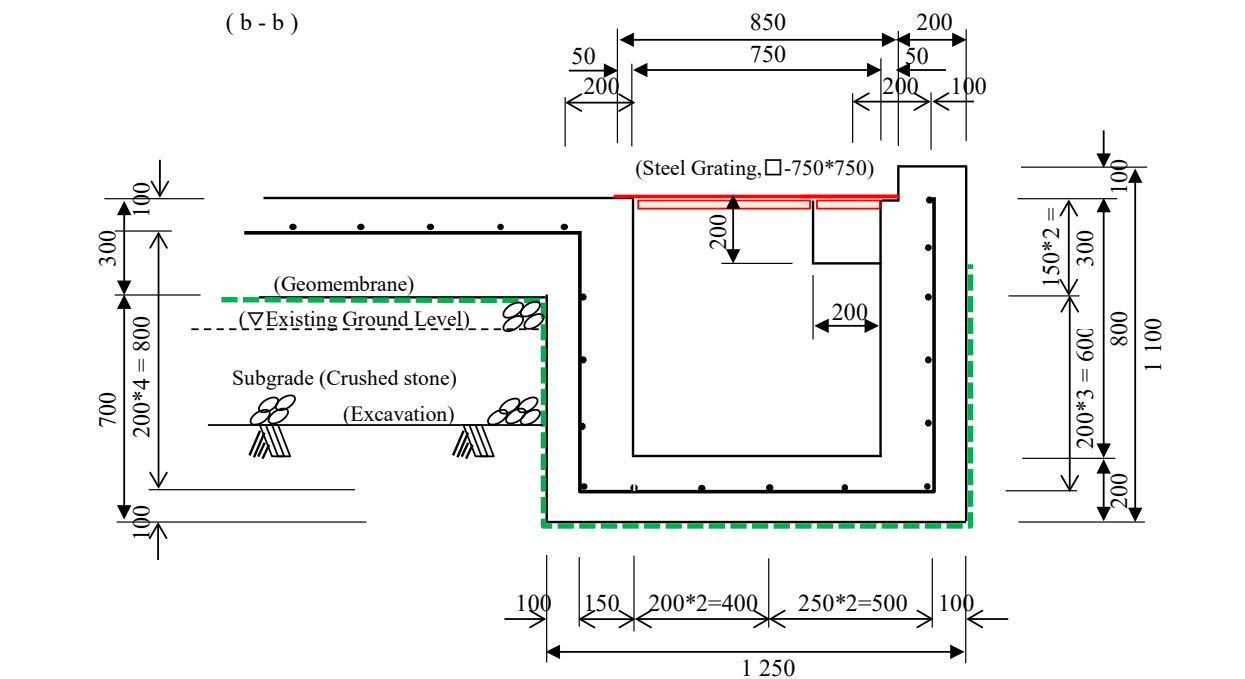
Section view  
(a - a)



Side Ditch & Oil Pit  
(sect. B - B')



Section view  
(b - b)

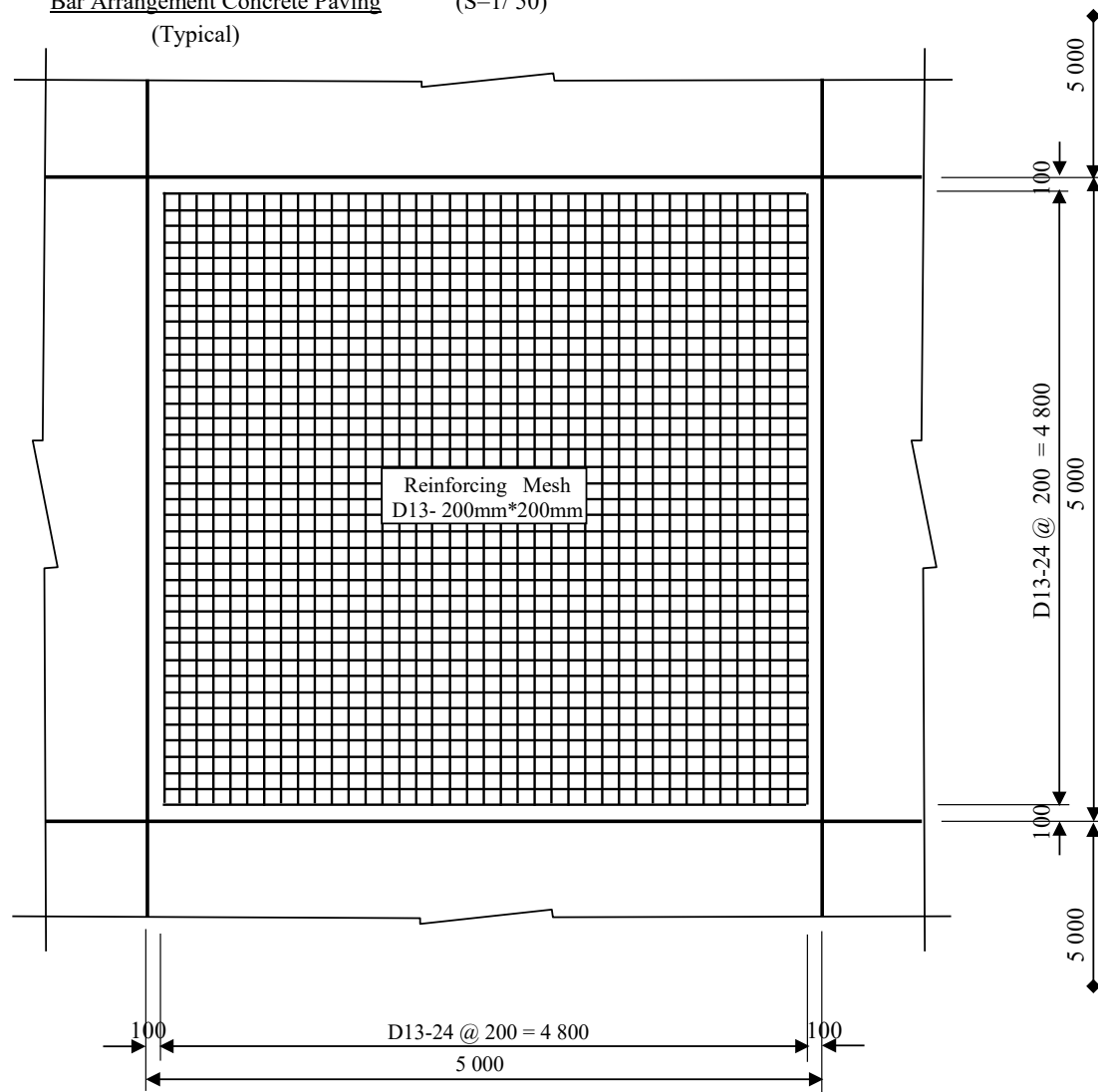


<p>PROJECT</p> <p>PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PROJECT IN INDIA</p>	<p>CLIENT</p> <p>GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)</p>	<p>SCALE</p> <p>1/20</p>	<p>DWG TITLE</p> <p>PLOT NO.XX Wide : 45.0M</p> <p>CONSULTANT</p> <p>JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.</p>	<p>DWG NO.</p> <p>PLD-01</p>
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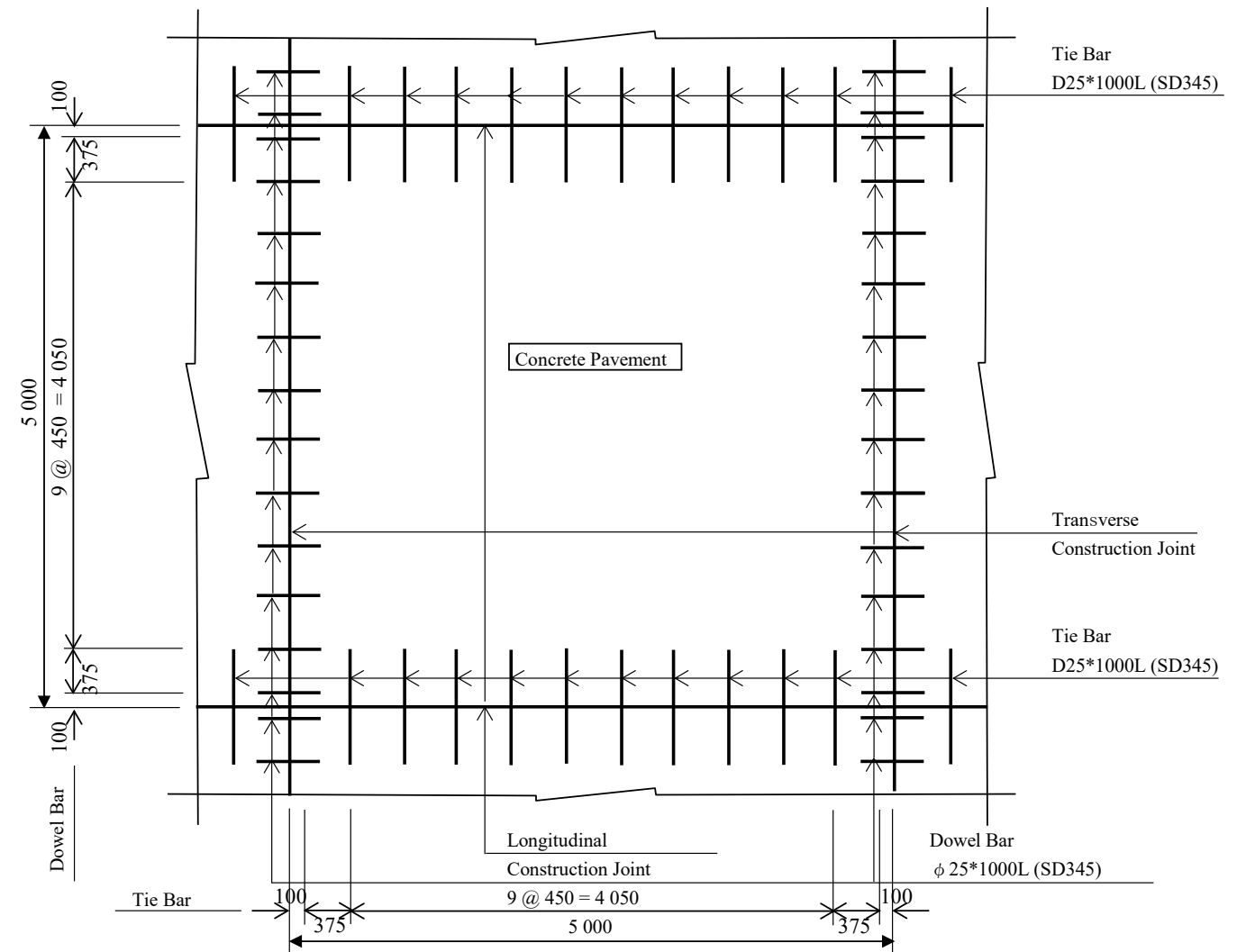


Detail of Concrete Pavement Structure

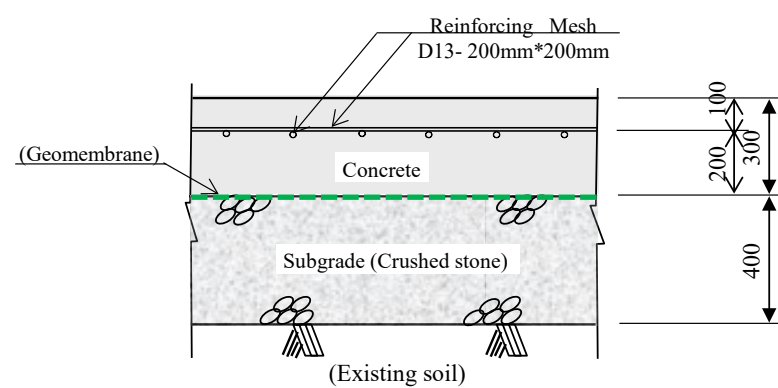
Bar Arrangement Concrete Paving (Typical) (S=1/50)



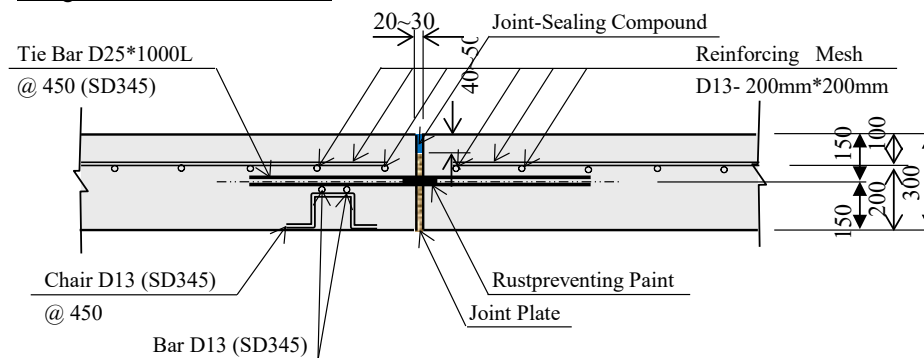
Longitudinal and Transverse Construction Joint



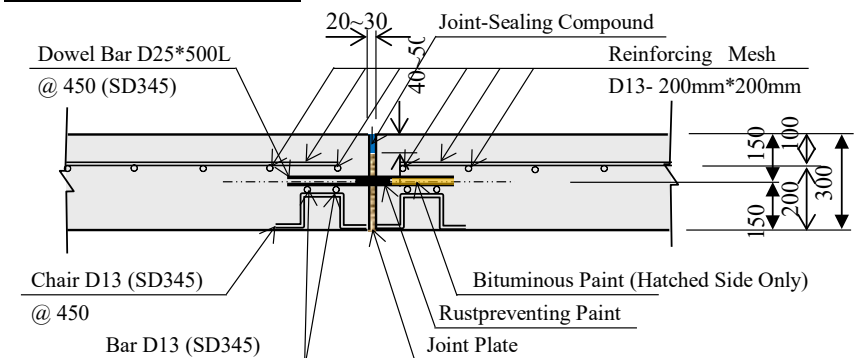
Concrete Pavement Structure (S=1/20)



Longitudinal Construction Joint



Transverse Construction Joint

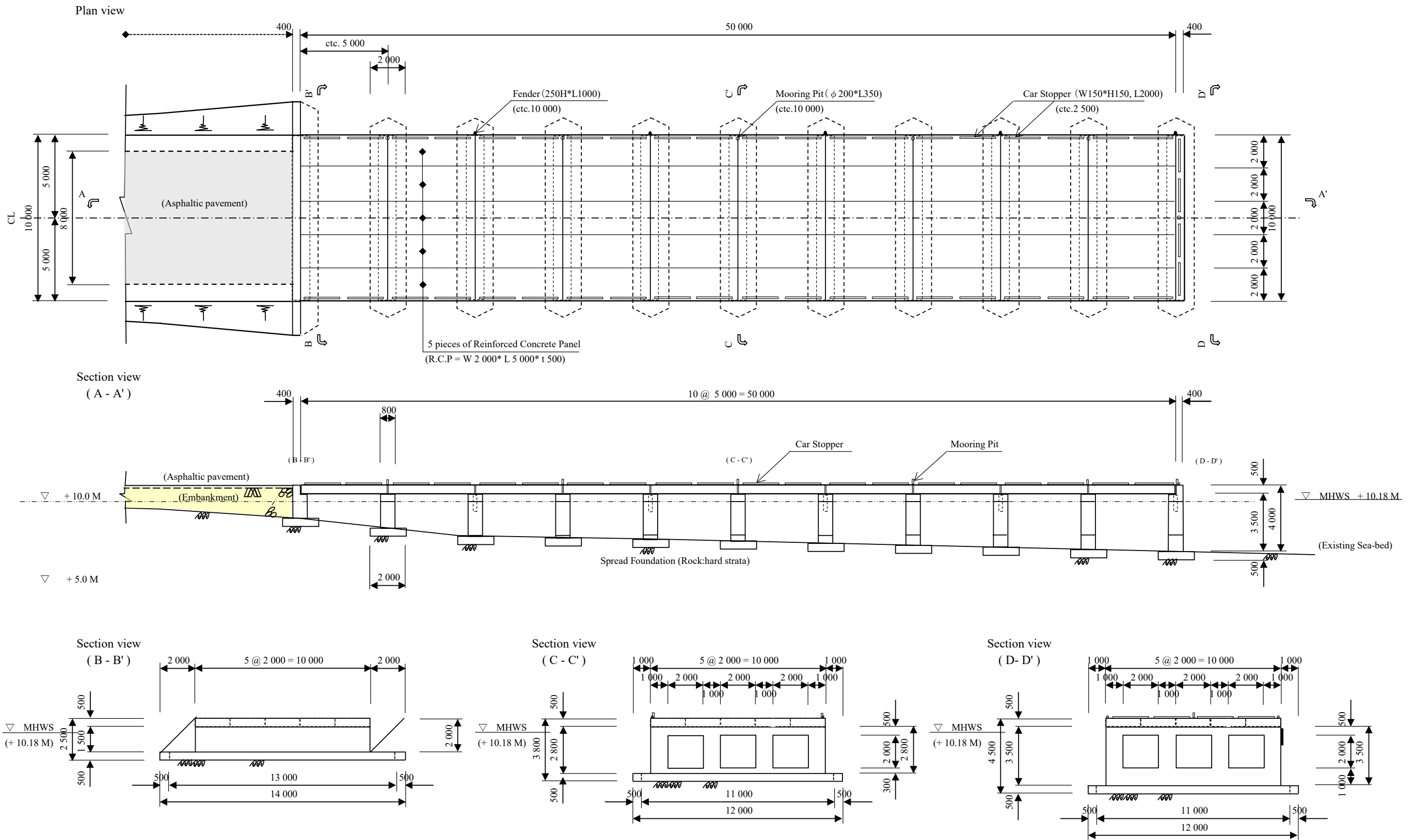


PROJECT PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PORJECT IN INDIA	CLIENT GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)	SCALE	1/50		DWG TITLE PLOT NO.XX Wide :	DWG NO. PLD-
			1/20			
				CONSULTANT JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.		





Jetty -1 (W:10.0m\*L:50.0m)



<p>PROJECT</p> <p>PREPARATORY SURVEY ON THE SHIP RECYCLING YARDS IMPROVEMNET PROJECT IN INDIA</p>	<p>CLIENT</p> <p>GUJARAT MARITIME BOARD (GMB) SHIP RECYCLING YARDS INDUSTRY ASSOCIATION (SRIA)</p>	<p>SCALE</p>	<p>DWG TITLE</p> <p>Jetty -1 (W:10.0m*L:50.0m)</p> <p>CONSULTANT</p> <p>JAPAN MARINE SCIENCE INC. PADECO CO., LTD. JAPAN DEVELOPMENT INSTITUTE CO., LTD.</p>	<p>DWG NO.</p> <p>PLD-</p>
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