

INTERNSHIP REPORT

ON

**“20KL RCC TANK INTALLATION OF EXTRA
PREMIUM PETROL OF IOCL”**

Submitted to-

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE GWALIOR
(A govt. Aided Autonomous Institute under RGPV, Bhopal (M.P) Established in 1957)

**IN PARTIAL FULFILLMENT FOR REQUIREMENT FOR THE AWARD OF THE
DEGREE OF**

BACHELOR of TECHNOLOGY
In
CIVIL ENGINEERING



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(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)



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DATE:- MAY 25,2021

This is in reference to the on going internship of **Mr. Dishant choure** at Ashirbad enterprise pvt Ltd from JAN,2022 TO MAY2022.

TECHNOLOGY :- site engineer for IOCL projects .

We found her sincere, hardworking and technically sound result oriented. He worked well as a part of the team during her tenure. We take opportunity to thank here and wish her all the best for her future.

As part of her institute grading we would like to grade her as excellent during these course of months.

Sveema

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RECOMMENDATION

It is here by recommended that the internship report entitled "20kl RCC tank installation of extra premium petrol of Indian oil corporation limited." tank which is being submitted by Dishant Choure completed under the guidance of Dr. Prachi Singh may be accepted in the partial fulfillment of the award of the degree of Bachelor of Engineering in Civil Engineering.

GUIDED BY

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When it comes to properly acknowledging someone's support and assistance, it may be a challenging undertaking, chiefly when the support offered is so wholehearted and unwavering.

I am eternally grateful to my renowned guide, **Dr. Prachi Singh**, Assistant Professor of Civil Engineering Department, MITS Gwalior.

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I take great pleasure for my institute for providing the opportunities.

The environment of company has been valuable experience for me. It has provided an opportunity to learn at our own pace in discipline of interest. I would like to thank all those who helped me during different stages of completion of this project.

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ABSTRACT

The main objective of this report is to imprint the knowledge and experiences gained while pursuing the internship at Indian Oil Corporation Ltd in the form of the report to the university and industry.

This project of IOCL in which we will understand about the 20 thousand litter extra premium petrol which is under ground the with RCC slab to take When subjected to loads or displacements, all true physical structures behave dynamically. Newton's second law states that additional inertia forces are equal to mass times acceleration. If the weights or When displacements are applied slowly, inertia forces can be ignored and a static model can be created. It is possible to justify load analysis. As a result, dynamic analysis is a straightforward extension of static analysis..

ABSTRACT

इस रिपोर्ट का मुख्य उद्देश्य इंडियन ऑयल कॉर्पोरेशन लिमिटेड में इंटरनशिप के दौरान प्राप्त ज्ञान और अनुभवों को विश्वविद्यालय और उद्योग को रिपोर्ट के रूप में छापना है।

आईओसीएल की यह परियोजना जिसमें हम 20 हजार लीटर अतिरिक्त प्रीमियम पेट्रोल के बारे में समझेंगे जो कि आरसीसी स्लैब के साथ जमीन के नीचे है जब भार या विस्थापन के अधीन होता है तो सभी वास्तविक भौतिक संरचनाएं गतिशील रूप से व्यवहार करती हैं। न्यूटन का दूसरा नियम कहता है कि अतिरिक्त जड़त्व बल द्रव्यमान त्वरण के बराबर होते हैं। यदि भार या जब विस्थापन को धीरे-धीरे लागू किया जाता है तो जड़त्व बलों को नजरअंदाज किया जा सकता है और एक स्थिर मॉडल बनाया जा सकता है। लोड विश्लेषण को सही ठहराना संभव है। नतीजतन, गतिशील विश्लेषण स्थिर विश्लेषण का एक सीधा विस्तार है।

List of Abbreviations

IOCL/IOC.....Indian Oil corporation Limited
COCO..... Company owned company operated outlets
DODO.....Dealer Owned Dealer operated Outlets
UPES.....University of petroleum and energy studies
HDFC.....Housing development Finance corporation
LPGLiquefied petroleum gas
HDPE.....High density polyethylene
MMTPA.....Million Metric tone per annum
MMSCMD.....Million standard cubic feet per day
MMTMillion metric tone
CSM.....Customer satisfaction measurement
CRM.....Customer relationship management

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CHAPTER (1)

INTRODUCTION

1.1 Background

Petroleum is one of the world's most versatile resources. The petroleum industry in India is regarded as the economy's wheel because it is inextricably related to all other industrial sectors. Petroleum is critical to industry, infrastructure, and the overall economy.

The Indian petroleum sector is one of the country's most important sources of energy for industry and the general public. Many elements of the economy are influenced by the production, availability, and price of petroleum products.

INDIAN OIL CORPORATION LIMITED (IOCL), India's largest commercial enterprise and the top-ranked Indian company in Fortune's Global500 list, is one of the Maharatna enterprises in the PSU sector. In the Fortune 'Global 500' rankings for 2018, the company is rated 137th. Since the last five decades, Indian oil has led the way in meeting India's energy demands efficiently and effectively, with a strong team of 33,125 multitalented and dedicated Indian oil employees, and an enterprise that meets India's energy requirement for inclusive growth.

Indian oil's commercial activities span the whole hydrocarbon value chain, including exploration and production, refining, pipeline transportation, and marketing of petroleum and petrochemical products, as well as ventures into alternative energy. With its 15 joint ventures with reputable Indian corporate partners, Indian Oil is pursuing varied business interests while also satisfying worldwide objectives through its subsidiaries in Sri Lanka, Mauritius, the UAE, Sweden, the United States, Singapore, and the Netherlands. The company has also created new overseas offices in Yangon, Myanmar, and Dhaka, Bangladesh, in order to grow marketing of finished petroleum products, petroleum products, petrochemicals, lubricants, and other related items in adjacent countries, as well as infrastructure development.

IOC (Indian Oil Corporation Limited) is a state-owned oil business with an 82 percent stake in the company. Its operations include crude oil refining, LPG distribution, and petro-product marketing. It is also the most profitable firm in the oil and gas industry. IOC controls 41% of the country's refining capacity. It operates nine refineries, including two subsidiary refineries, Bonagaon Refineries and Petrochemical Limited and Chennai Petroleum Corporation Limited. During 2002-03, the IOC Group refineries achieved a crude oil throughput record of 43.39 MMT.

With a combined capacity of 43.45 MMT per annum, the company's total pipeline network spans 7,170 kilometres, accounting for 76 percent of the market. With around 22000 selling

locations, 8100 retail fuel pumps, 3900 LPG distributors, 3500 kerosene distributors, and 95 aviation fuel stations, it has a robust marketing infrastructure.

The "Research and Development Centre" of Indian Oil supports its operations. The first centre of its kind in India. Kuwait, Kuala Lumpur, Dubai, and Mauritius are among India's four foreign offices. The business's goal as India's leading national oil corporation is to assist the country's economy and people. IOC has a "vision beyond tomorrow" of becoming a "Global Energy Corporation" that is integrated and diverse.

1.2 Objective

Without any goal in mind any effort made is blur that is way an objective is set before accomplishing any goal so that it creates clarity in mind body to function like wisely.

The objective and main goal of the thesis is to obtain an exposure in petrochemical industry while drawing and gathering data with supportive suggestion so that it would be beneficial interdependently to industry as well as to us. It gives me an insight about the market of petroleum companies and how they operate in order to get the desired results which would be helpful for me in rest of my life as a learning and experience and thus could operate in any petroleum organization smoothly and effectively.

CHAPTER (2)

LITERATURE REVIEW

2.1 LITERATURE REVIEW

There were one core project assigned within the boundaries of Varanasi of regarding 20kl extra premium petrol and CNG gas plant. While passing through a petrol pump seeing the long queues or while filling up our cars' is tanks for Rs2000+, all of us wonder at a moment about people because who owns a petrol pump. "how much they are earning " they must be super- rich," . The common point of contact among the oil industry and consumers is termed as petrol pump in simple terms as a petrol pump in simple terms. Petrol pump are also known to be as retail Outlets (ROs) in oil industry. According IOCL there are two types of petrol available across the country.

- 1) NORMAL PETROL.
- 2) BRANDED PETROL.
- 3) ETHANOL BLENDED.

Lubricant are an essential product for the engine's health. It's a viscous product which is being used in an engine for its smooth functioning. However, different engines, gearboxes, and other components need different grades of Lubricants.

There are specific criteria and guidelines set up by the government of India that has to be fulfilled before starting the pump.

- 1) The petrol pump owner should be Indian citizen. In the case of an NRI candidate have lived for 182 days
- 2) 21 years is set to be the minimum age, and 55 years is the maximum age for the candidate.
- 3) The birth certificate is mandatory.
- 4) For rural area individual, the minimum education qualification is 10+2 certification while the urban area individual requires a university degree certificate.
- 5) Candidates who fall under the category of freedom fighters are exempted from any of these rules.
- 6) In rural areas , a minimum investment of Rs 15 lakh is required to get a dealership.
- 7) The land area depends upon the location and should range between 800Sq meters to 2000Square meters.
- 8) The land for petrol pump dealership project level and develop and should have easy accessibility from the road

The margin of the dealer for diesel and petrol approximately Rs.2 Per litre in diesel and Rs.3 Per Litre in petrol.

IOCL XTRA PREMIUM:- IOCL premium is the first petrol in India to have a 91 octane rating, as opposed to the 88 octane rating currently available at retail outlets. IOC premium is furthermore fortified with high-quality multifunctional ingredients. Mr. P.K. Agarwal, Director (Marketing) of Indian Oil, stated that IOC premium not only provides increased mileage but also faster acceleration, smoother acceleration, and peak engine power. It also stops your car's engine from banging. The multifunctional additives give the engine a fresh lease on life by removing carbon deposits, resulting in cleaner engines and cheaper maintenance expenses. As a result, the engine's performance has reached new heights.

Xtra mile Diesel Super:- Diesel super is a new generation of diesel that has been fortified with world-class multi-functional additives. It cleans the engine, reduces pollutants, and prevents gum buildup. It also aids in the restoration of peak engine power and acceleration while lowering maintenance expenses.



CHAPTER (3)

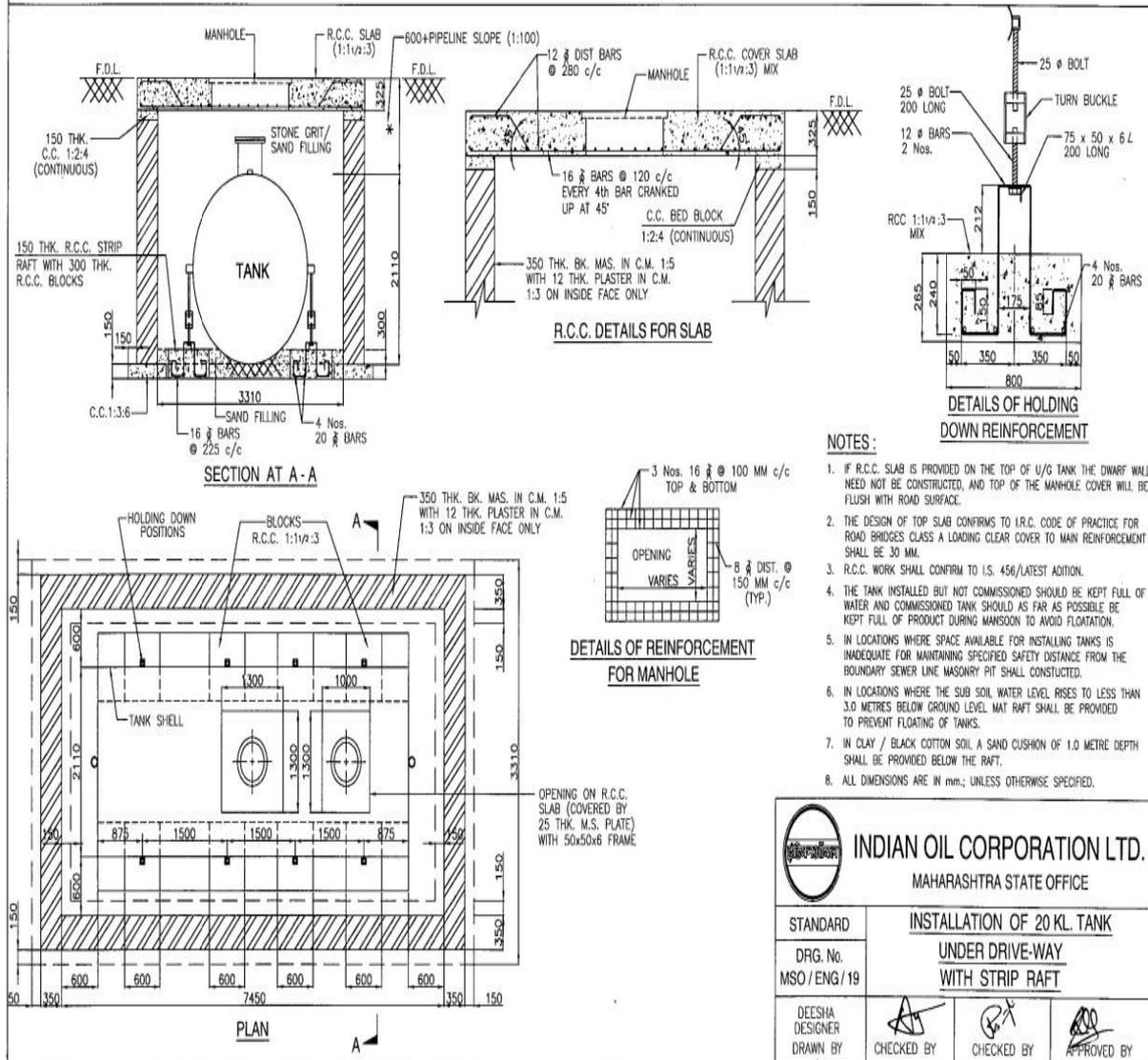
PROCEDURE

There are different steps before installation of 20kl tank . The tender will open for particular project by the IOCL company. The tender is an invitation to offer in which the government

encourages private organisations to submit bids to supply products and services to the government through a tender. The engineer then provides a specific project drawing for the completed job. We learned about tanks in this assignment.

- 1) *First layouting the tank*
- 2) *Secound removing of pever block or site clearence*
- 3) *Thired one is to excavated the earth work*
- 4) *Pcc (plain cement concrete*
- 5) *Brick work for tank*
- 6) *Plastering*
- 7) *Chair for tank*
- 8) *Pressure test in tank*
- 9) *Dump the tank in chamber*
- 10) *Dump the sand for covering the tanks*
- 11) *Chamber for tank*
- 12) *Reinforced bars for slab (r.c.c.)*
- 13) *Tranch for hdpe pipe supplying the petrol*
- 14) *Tranch for vent pipes*
- 15) *tranch for unloaded pipes*
- 16) *stp installation for tank petrol supplying (submersible pump)*
- 17) *Earthing for tank*
- 18) *Cable conection from panel boards*
- 19) *Testing of 5 littre of petrol from machine*
- 20) *stamping the machine .*

INSTALLATION OF 20 KL. TANK UNDER DRIVE-WAY WITH STRIP RAFT



Figur3.1 Section drawing of 20 KL of tank

3.1) LAYOUT :- A plane is a measured plane that is typically projected at the floor height of 1.2m, as opposed to an elevation, which is a measured plane projected from the side of a building, along its height, or a section or cross section, which is a measured plane where a building is cut along axis to reveal the interior structure. The goal of a good site layout is to enable a safe and cost-effective flow of materials and people around a facility that is socially acceptable to workers and neighbours in order to manufacture a specific product reliably and efficiently. The dimensions of the tank are (8.0 X 4.0M)



Figur3. 2 Layout of 20 KL of tank

3.2) REMOVING OF PAVER BLOCK OR SITE CLEARANCE :-

When layout is completed than site clearance is done for next step of excavation of earth. Removing of paver blocks is done by manually with the help of labours. For in this work we should remember about the environmental should not distracted if they are present than tray to avoid cutting or removing of trees for further construction.



Figur3. 3 Paver blocks removing

3.3) EXCAVATION OF EARTH :- Excavation is the process of using tools, equipment, or explosives to move dirt, rock, or other materials. Trenching, wall shafts, tunnelling, and underground work are all part of the construction project's preliminary activities.



Figur3. 4 Excavation of tank

3.4) PCC PLAIN CEMENT CONCRETE :-

Cement, fine aggregate (sand), and coarse aggregate are mixed together without reinforcement in plain cement concrete. To avoid direct contact of reinforcement of concrete with soil and water, PCC concrete is spread on the soil surface before concreting the entire structure. Brickwork platform made of pcc up to 150 mm



Figur3. 5 P.C.C. of 150mm ratio of 1:3:6

3.5) BRICK WORK:- Brickwork is a type of masonry construction that involves the use of bricks and mortar. Brick work is the process of laying basic bricks in a methodical pattern using mortar. Brick work is the application of mortar in a systematic pattern. Mortar is a paste-like substance used to connect bricks. The brick work is 350mm wide and has a 1:4 mortar ratio, with 1 being cement and 4 being sand.



Figur3. 6 Brick work of size 350mm

3.6) PLASTERING:- Plaster is a building material that is used to preserve and decorate walls and ceilings, as well as to mould and cast decorative components. Plastering is the process of applying a thin coat of plaster to walls, ceilings, and other construction components to smooth and durable the surface. The plastering ratio of 350mm wall is covered by 1:3 at the inner site and 1:5 at the outer site, with a thickness of 12 mm in this structure.



Figur3. 7 Plastering of size 12mm

3.7) CHAIR FOR TANK (TURN BLOCK)

This chairs are supportive members. of tank in which tank is clamped due to which the tank is not tilt during unloading of petrol. Chair size thiknes is about 300 mm with the ratio of 1:3:6



Figur3. 8 chair turn blocks

3.8) PRESURE TESTING OF TANK HYDRO PRESSURE TEST.

The principal method for testing for leaks and assessing the structural integrity of metre skids, compressed gas cylinders, boilers, tubing, pipelines, and other pressurised containers is hydrostatic testing. The gauge pressure obtained from the machine is 0.5.



Figur3. 9 Hydro pressure test

3.9) DUMP THE TANK INTO CHAMBER :-

With the help of hydro crane dump the tank safely into the chamber. And check the pipe level where the tank is in right position or not.



Figur3.10 Dump of tank and levelling of tank

3.10) DUMP THE SAND INTO CHAMBER :-

To avoid electric shock, sand is used instead of water to extinguish the fire, as there may be current-carrying wires that become exposed and harmful. During the summer, it cools down to maintain the temperature of the fuel in the tanks.



Figur 3.11 Dump of sand into tank

3.11) CHAMBERS FOR TANK :-

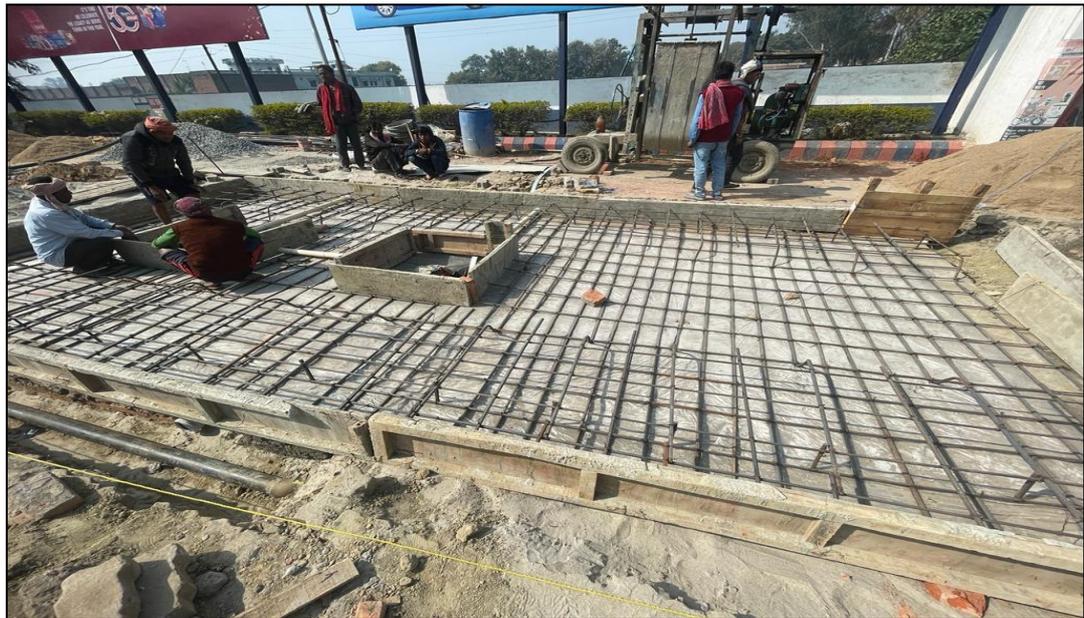
Small chamber are constructed of size 1 x 1x 0.6 m on tanks for pipes of unloading, supplying, and for STP in chamber this chamber is constructed by bricks. on them angle frames are set of size 50x50x6 and 40x40x5. Into chamber and 16 mm steal plates are covering the chambers.



Figur3.12 Chamber for tank with angle fram

3.12) RCC REINCEMNET CEMENT CONCRETE SLAB :-

A composite material in which the poor tensile strength and ductility of concrete is compensated for by the addition of reinforcement with better tensile strength and ductility. Reinforced concrete structures are strong and long-lasting. It has excellent compressive and tensile properties. It is cost effective, and the maintenance costs are minimal. RCC is the least likely to buckle and rust. This slab is one way slab. The size of earth slab is about same as tank size 8 x 4meter in which steal bars of size 12mm and 16 mm are used in which main bars are 16mm and distribution bars are 12mm every 4 the bar of slab is bend in which crank are given at angle of 45 degree . and centre to centre distance 120mm and distribution bars at 280mm centre to centre. The number of bars of 16 mm is 67 and 12mm 15. Are required in net of slab.



Figur3.13 RCC Slab

3.13) TRANCH FOR HDPE (High Density Polyethylene) PIPES :-

HDPE (high-density polyethylene) pipes are a type of flexible plastic pipe used for fluid and gas transport that is frequently used to replace ageing concrete or steel main pipelines. Its high level of impermeability and strong molecular bond make it appropriate for high pressure pipelines. The density of HDPE pipe must be at least 0.955 grammes per cubic centimetre. All HDPE pipe and fittings must have a hydrostatic design basis (HDB) of 1600 psi and meet the minimum strength criteria of the standard dimension ration (SDR)17. This pipes is used for supplying the fuels from steal tanks . this pipes also take hydro testing . The size of HDPE pipe is 50mm dia.



Figur3.14 HDPE Pipes

3.14) TRENCH FOR UNLOADED POINT:-

Trench is size of 0.3x 0.45x18meter from which 100mm dia od steal pipes are laying from which the fuel is transfer into tank of 20 kl tanks. following components like nipple, coupling , 90 degree female elbow etc.



Figur3.15 Unloaded Pipe

3.15) TRENCH FOR VENT PIPE:-

The steal pipes of 40mm dia is used for removing of gas from tank inside develop for evaporate the gas into atmosphere. A plumbing vent pipe functions similarly to a drain pipe, however it does not convey water. It manages the air in your plumbing system instead. The vent pipe, also known as a vent stack or plumbing vent, regulates air movement to ensure that waste and fuel flow through pipes that drain from over tanks.



Figur3.16 Vent Pipe

3.16) STP INSTALLATION FOR FUEL SUPPLYING:-

A pumping mechanism inside a storage tank is known as a submersible turbine pump. The pump is generally buried in the fuel because it is located near the bottom of the tank, below the liquid level. The red jacket submersible turbine pump platform provides more consistent fuel flow at a lower cost of ownership. Featuring a motor that outperforms all others in the industry in terms of flow rates.



Figur3.17 Submersible Turbine Pump

3.17) EARTHING FOR TANK:-

An electric shock can be avoided by earthing yourself. It accomplishes this by allowing a fault current to pass to earth, as well as causing the protective device to turn off the electric current to the circuit with the fault. For safety and functionality,

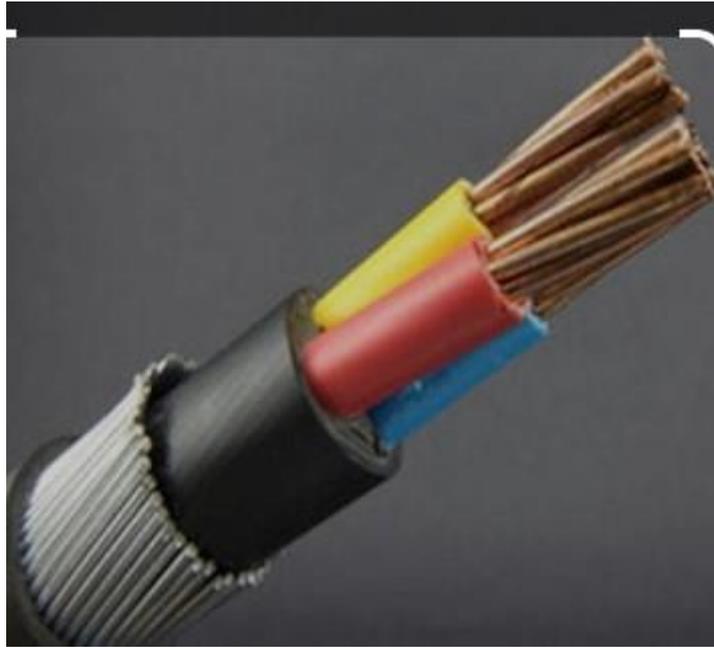
an earthing or grounding system connects particular portions of an electric power system to the ground, which is normally the earth's conducting surface. You could get an electric shock if you contact a live metal element if there is a defect in your electrical installation. This is due to the possibility that electricity will use your body as a conduit between the living and earth parts.



Figure 3.18 Earthing Box

3.18) CABLE CONNECTION :-

3core armoured cable is generally used to supply mains power to domestic and outdoor buildings such as sheds, consisting of a set of insulated twisted copper wires coloured brown, blue/green and yellow which are protected by a black metal sheath. In this site 117 meter cable are used.



Figur3.19 Core cable

3.19) TESTING OF 5 LITTER PETROL FROM MACHINE :-

This is ensured that before starting the machine of pump the fuel is measured in jars of fuel measurement . 5 litter of fuel are taking test for 5 times.



Figur3.20 Measuring jar

3.20) STAMPING THE MACHINE :-

Stamping means the machine is checked by government officers of marketing in which they verifying the machine is ready for sale of fuels .



Figur3.21 Stamping of Machine

CHAPTER (4)
MEASUREMENT SHEET

The measurements taken for the selected items are recorded on the measurement sheet. Before taking measurements for goods in draughts delivery note, make a draught delivery note. Measurement aids in determining the quantity of objects throughout time till the draught delivery note is submitted.

Table 4. 1 MEASUREMENT SHEET

TO ,			NAME OF WORK :- 20KL TANK INSTALLATION						
INDIAN OIL CORPORATION, LIMITED VARANSI D.O.			LOCATION:-Kastoor Chand Fs, NH2, Gopiganj						
			WORK ORDER NO. :-0027455730 WORK DATE:- 24/12/2021						
			CONTRACTOR NAME:- ASHIRBAD ENTERPRISE						
SL NO	SOR NO	ITEM DESCRIPTION	UNIT	RATE	N O	L	B	H/D	QNT Y
1	MPLCN30 600	Taking out existing CC interlocking paver blocks	M2	87.37					
		Tank side			1	11	5		55
		GAS pipe			1	26	0.45		11.7
		unloaded side			1	18	0.45		8.1
		HDPE PIPE			1	17.5	0.45		7.875
									82.68
2	MPLCN30 700	Laying Corporation supplied interlocking paver blocks	M2	301.15					
		EXTRA REMANING SIDE OF TANK			1	3	5		15
		GAS pipe			1	26	0.45		11.7
		unloaded side			1	18	0.45		8.1
		HDPE PIPE			1	17.5	0.45		7.875
									42.68
3	MPLCN00 502	Earth work in rough excavation in ALL kind of soil	M3	327.39					

		GAS pipe			1	26	0.45	0.3	3.51
		unloaded side			1	18	0.45	0.3	2.43
		HDPE PIPE			1	17.5	0.45	0.3	2.3625
									8.30
4	MPLCN02 802	TANK INER SIDE PCC 1 Cement:1½ Coarse Sand:3 Graded Stone	M3	8338.22	1	4	8	0.15	4.8
5	MPLMN05 303	15/20 KL Tank with fittings : 0 - 30 Km	LS	7998.25	1	1			1
6	MPLMN05 304	15/20 KL Tank with fittings: Add extra for each addtnl. Km above 30km	KM	61.53	1	320			320
7	MPLCN12 500	Structural steel work	KG	94.51			KG/ M	KG/ M2	
		FRAME 50 X 50 X 6 OUT SIDE			2	4.4	5.8		51.04
		FRAME INSIDE 40 X 40 X 6 INSIDE			2	4.2	3.5		29.4
		FRAME OF UNLOADE CHAMBER 50 X 50 X 6			1	2.2	4.5		9.9
		16 MM MS PLATE			2	1.1	1.1	126	304.92
		MS PLATE - 16 MM UNLOADED			1	0.508	0.508	126	32.516
									427.78
8	MPLMN03 501	iii) S/I Screwed type GM Ball Valve of 50 mm dia	EA	3471.43	1	1			1
9	MPLMN02 101	S/I of Threaded caps of 50 mm dia for dip pipe	EA	195.92	1	1			1
10	MPLMN02 102	S/I of Threaded caps of 80 mm dia.	EA	324.09	1	1			1
11	MPLCN52 000	HDPE PIPE	M	3094.4	1	17.5			17.5
12	MPLMN01 803	S/W Slipon flanges of 50 mm dia.	EA	692.09	6	1			6
13	MPLMN00 704	S/L Threaded A/G HD MS Pipes of 40 mm dia with fittings,Painting	M	330.38	1	32			32
14	MPLMN00 702	S/L Threaded A/G HD MS Pipes of 80 mm dia with fittings,Painting	M	725.34	1	18			18

15	MPLEN02403	50 x 6 mm G.I. Strip	M	377.49	1	22			22
	MPLEN02404	25 x 6 mm GI strip	M	120.89	1	2.2			2.2
16	MPLEN00104	3 Core x 2.5 sq. mm Copper Cable FRLS	M	103.61					
		STP CABEL			1	87			87
		DU MACHIN CABEL			2	47			94
									181
17	MPLMN07100	Installation of Corporation supplied Standard Submersible Turbine Pump	EA	1610.67	1	1			1
18	MPLMN02402	S/I of Threaded Nipple of 50 mm dia	EA	274.17	6	1			6
19	MPLMN02203	S/I of Threaded Bush of 50 x 40 mm	EA	194.89	1	1			1
20	MPLMN01802	S/W Slipon flanges of 80 mm dia	EA	909.25	2	1			2
21	MPLCN51608	90 Deg.Female Thread Elbow 48.60 mm OD x 40 mm ND	EA	848.83	2	1			2
22	MPLCN05101	BRICK WORK IN CHAMBER 1:4	M3	5922.89	8	1.1	0.25	1.1	2.42
23	MPLMN00204	In brick masonry pit with RCC matt under driveway including RCC	LS	502890.5	1	1			1
24	MPLMN05603	Hydro Testing 20KL Tank with fresh water@ pressure 0.75Kg/Sqcm	EA	10913	1	1			1
25	MPLEN07004	5KVA stabilizer	EA	14385.78	1	1			1
26	MPLCN23200	Painting with synthetic enamel paint	M2	164.56					
		MAIN HOLE CHAMBER PLATE			2	1.1	1.1		2.42
		UNLOADED CHAMBER PLATE			1	0.55	0.55		0.3025
									2.7225
27	MPLEN05303	6A to 32A DP MCB	EA	538.03	2	1			2
28	MPLMN01	Making Flange joint between Slip	EA	556.68	3	1			3

	902	50MM							
29	MPLCN50 405	v) Coupling/socket for 42.70 mm outer dia pipe	EA	196.37	2	1			2
30	MPLMN02 401	i) S/I of Threaded Nipple of 80 mm dia	EA	362.85	2	1			2
31	MPLCN17 301	75 mm diameter	M	186.8	2	6			12

CHAPTER 5 ABSTRACT SHEET

Abstraction is the process of combining all of the amounts 'taken off' for each constituent into a single total that can subsequently be transferred into the bill of quantities. On dimension/abstraction sheets, quantities of the same objects are recorded.

Table 5.1 ABSTRACT SHEET

TO ,			NAME OF WORK :- 20KL TANK INSTALLATION							
INDIAN OIL CORPORATION, LIMITED VARANSI D.O.			LOCATION:-Kastoor Chand Fs, NH2, Gopiganj							
			WORK ORDER NO. :-0027455730 WORK DATE:-24/12/2021							
			CONTRACTOR NAME:- ASHIRBAD ENTERPRISE							
SL NO	SOR NO	ITEM DESCRIPTION	UN IT	RATE	N O	L	B	H/D	QN TY	AMOU NT
1	MPLCN3 0600	Taking out existing CC interlocking paver blocks	M2	87.37						
		Tank side			1	11	5		55	
		GAS pipe			1	26	0.45		11.7	
		unloaded side			1	18	0.45		8.1	
		HDPE PIPE			1	17. 5	0.45		7.87 5	
									82.6 8	7223.3
2	MPLCN3 0700	Laying Corporation supplied interlocking paver blocks	M2	301.15						
		EXTRA REMANING SIDE OF TANK			1	3	5		15	
		GAS pipe			1	26	0.45		11.7	
		unloaded side			1	18	0.45		8.1	
		HDPE PIPE			1	17. 5	0.45		7.87 5	
									42.6 8	12851.6
3	MPLCN0 0502	Earth work in rough excavation in ALL kind of soil	M3	327.39						

		GAS pipe			1	26	0.45	0.3	3.51	
		unloaded side			1	18	0.45	0.3	2.43	
		HDPE PIPE			1	17.5	0.45	0.3	2.36 25	
									8.30	2718.2
4	MPLCN0 2802	TANK INER SIDE PCC 1 Cement:1½ Coarse Sand:3 Graded Stone	M3	8338.2 2	1	4	8	0.15	4.8	40023.5
5	MPLMNO 5303	15/20 KL Tank with fittings : 0 - 30 Km	LS	7998.2 5	1	1			1	7998.3
6	MPLMNO 5304	15/20 KL Tank with fittings: Add extra for each addtnl. Km above 30km	KM	61.53	1	320			320	19689.6
7	MPLCN1 2500	Structural steel work	KG	94.51			KG/ M	KG/ M2		
		FRAME 50 X 50 X 6 OUT SIDE			2	4.4	5.8		51.0 4	
		FRAME INSIDE 40 X 40 X 6 INSIDE			2	4.2	3.5		29.4	
		FRAME OF UNLOADE CHAMBER 50 X 50 X 6			1	2.2	4.5		9.9	
		16 MM MS PLATE			2	1.1	1.1	126	304. 92	
		MS PLATE - 16 MM UNLOADED			1	0.5 08	0.50 8	126	32.5 16	
									427. 78	40429.1
8	MPLMNO 3501	iii) S/I Screwed type GM Ball Valve of 50 mm dia	EA	3471.4 3	1	1			1	3471.4
9	MPLMNO 2101	S/I of Threaded caps of 50 mm dia for dip pipe	EA	195.92	1	1			1	195.9
10	MPLMNO 2102	S/I of Threaded caps of 80 mm dia.	EA	324.09	1	1			1	324.1
11	MPLCN5 2000	HDPE PIPE	M	3094.4	1	17.5			17.5	54152
12	MPLMNO 1803	S/W Slipon flanges of 50 mm dia.	EA	692.09	6	1			6	4152.54
13	MPLMNO 0704	S/L Threaded A/G HD MS Pipes of 40 mm dia with fittings,Painting	M	330.38	1	32			32	10572.1 6
14	MPLMNO 0702	S/L Threaded A/G HD MS Pipes of 80 mm dia with fittings,Painting	M	725.34	1	18			18	13056.1 2

15	MPLEN0 2403	50 x 6 mm G.I. Strip	M	377.49	1	22			22	8304.78
	MPLEN0 2404	25 x 6 mm GI strip	M	120.89	1	2.2			2.2	265.96
16	MPLEN0 0104	3 Core x 2.5 sq. mm Copper Cable FRLS	M	103.61						
		STP CABEL			1	87			87	
		DU MACHIN CABEL			2	47			94	
									181	18753.4 1
17	MPLMN0 7100	Installation of Corporation supplied Standard Submersible Turbine Pump	EA	1610.6 7	1	1			1	1610.67
18	MPLMN0 2402	S/I of Threaded Nipple of 50 mm dia	EA	274.17	6	1			6	1645.02
19	MPLMN0 2203	S/I of Threaded Bush of 50 x 40 mm	EA	194.89	1	1			1	194.89
20	MPLMN0 1802	S/W Slipon flanges of 80 mm dia	EA	909.25	2	1			2	1818.5
21	MPLCN5 1608	90 Deg.Female Thread Elbow 48.60 mm OD x 40 mm ND	EA	848.83	2	1			2	1697.66
22	MPLCN0 5101	BRICK WORK IN CHAMBER 1:4	M3	5922.8 9	8	1.1	0.25	1.1	2.42	14333.3 938
23	MPLMN0 0204	In brick masonry pit with RCC matt under driveway including RCC	LS	502890 .5	1	1			1	502890. 48
24	MPLMN0 5603	Hydro Testing 20KL Tank with fresh water@ pressure 0.75Kg/Sqcm	EA	10913	1	1			1	10913
25	MPLEN0 7004	5KVA stabilizer	EA	14385. 78	1	1			1	14385.7 8
26	MPLCN2 3200	Painting with synthetic enamel paint	M2	164.56						
		MAIN HOLE CHAMBER PLATE			2	1.1	1.1		2.42	
		UNLOADED CHAMBER PLATE			1	0.5 5	0.55		0.30 25	
									2.72 25	448.014 6
27	MPLEN0 5303	6A to 32A DP MCB	EA	538.03	2	1			2	1076.06

28	MPLMN0 1902	Making Flange joint between Slip 50MM	EA	556.68	3	1			3	1670.04
29	MPLCN5 0405	v) Coupling/socket for 42.70 mm outer dia pipe	EA	196.37	2	1			2	392.74
30	MPLMN0 2401	i) S/I of Threaded Nipple of 80 mm dia	EA	362.85	2	1			2	725.7
31	MPLCN1 7301	75 mm diameter	M	186.8	2	6			12	2241.6

SUB TOTAL	800225. 4247
DISCOUNT@25%	- 200056. 356
TOTAL	600169. 0685
ADD GST@18%	108030. 4323
NET AMOUNT	708199. 5008

CONCLUSIONS

The following conclusions are coming during the internship :-

- 1) The report concludes with the finding that although Indian oil is having a huge market share and is known as a major in petroleum sector but due to advancement in technology.
- 2) Entrance of new competitors; maturity of the stagnant business, but then also a company should keep eyes on market and its competitors which IOCL is generally doing but as per the research it is to be suggested that the alliance which IOCL is forming should not affect their image in market as like in XTRA premium petrol the customers are well satisfied
- 3) From this project I got knowledge about the measurement of site and how the fuels get coming into over vehicles from machine of petrol pumps
- 4) This project gives me information about how to billing of any project work.
- 5) Taking risks for as per site condition for particular task.
- 6) Dealing with dealers for site materials to do bargaining for materials. Quality checking of materials at site .

Lastly I am very thank ful for getting my internship in ashirbad enterprise from assam guwahati they have given me the experience which I could never forget and is helpful for me in my career in upcoming future. The exposure which I gained while researching in market is unforgettable as there are different types of customers with whom you cannot talk the way you do with anybody, this exercise of talking with various sentiments of customers have improved my soft skills thus enabling improved communication. I could say that we whole as a UPES are very honourable to get an opportunity of internship in IOCL.

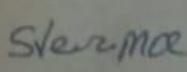
REFERENCES

[1]

https://www.academia.edu/40808414/Project_Report_on_Indian_Oil_Corporation_Limited

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**FORMAT
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

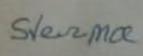
Name of student	DISHANT CHOURE	Department	I.C.T.		
Industry Organization	ASHIRBAD ENTERPRISES		Date-Duration	16/03/2022-31/03/2022	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity-Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/ Areas/Topics	LNG Gas plant in jason Varanasi (I.P.)				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. MANISH SRIVASTAV				
Signature of Industry Mentor			ASHIRBAD ENTERPRISE Bishu Rabha Nagar Noonmati, Guwahati-781020		

Receiving Date	Name of Faculty Mentor	Dr.Prachi Singh	Sign	
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Name of student	DISHANT CHOURE	Department	I.T.C.E.		
Industry Organization	ASHIRBAD ENTERPRISES	Date-Duration	15/01/2022 - 31/01/2022		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity-Knowledge up gradation				✓	
Performance-Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	20kl tank installation of extra premium petrol of Indian oil corporation limited in Varanasi region (U.P.)				
OVERALL GRADE (Avg. grade)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. MANISH SRIVASTAV				
Signature of Industry Mentor			ASHIRBAD ENTERPRISE Bishnu Rabha Nagar Noonmati, Guwahati-781120		

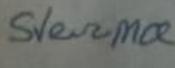
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FORM 51

FORTNIGHTLY PROGRESS REPORT (EPRO) FROM INDUSTRY MENTOR

Name of student	DISHANT CHOURE		Department	IOCL	
Industry Organization	ASHIRBAD ENTERPRISES		Date/Duration	01/01/2022 -15/01/2022	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comments on nature of work done/ Area/Topic	20kl tank installation of extra premium petrol of Indian oil corporation limited in Varanasi gopiganj (U.P.)				
<u>OVERALL GRADE (Avg. gnc)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	MR. MANISH SRIVASTAV				
<u>Signature of Industry Mentor</u>			ASHIRBAD ENTERPRISE Bahnu Rabha Nagar Noonmati, Guwahati-781020		

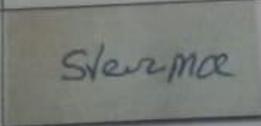
Receiving Date	Name of Faculty Mentor	Dr. Prachi Singh	Sign	
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20kl tank installation

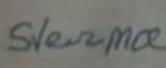
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FORTNIGHTLY PROGRESS REPORT (EPRI) FROM INDUSTRY MENTOR**

Name of student	DISHANT CHOURE	Department	IOCL		
Industry/Organization	ASHIRHAD ENTERPRISES	Date/Duration	01/02/2022 - 15/02/2022		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	20kl tank installation of extra premium petrol of Indian oil corporation limited in Varanasi gopiganj (U.P.)				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. MANISH SRIVASTAV				
Signature of Industry Mentor					
	ASHIRHAD ENTERPRISES Balmu Rabha Nagar Noonmati, Guwahati-781020				
Receiving Date	Name of Faculty Mentor		Dr. Prachi Singh	Sign	
					

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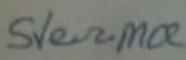
Name of student	DISHANT CHOURE		Department	IOCL	
Industry/Organization	ASHIRBAD ENTERPRISES		Date/Duration	16/02/2022 -28/02/2022	
Criteria	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comments on nature of work done/ Areas/Topics	20kl tank installation of extra pressure grade of Indian oil corporation located at Varanasi gopiganj (U.P.)				
OVERALL GRADE (Avg. one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. MANISH SRIVASTAV				
Signature of Industry Mentor			ASHIRBAD ENTERPRISE Bishnu Rabha Nagar Noonmati, Guwahati-781020		

Receiving Date	Name of Faculty Mentor	Dr. Prachi Singh	Sign	
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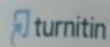
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	DISHANT CHOURE		Department	DCE		
Industry/Organization	ASHIRBAD ENTERPRISES		Date/Duration	16/01/2022 - 31/01/2022		
Criterion	Poor	Average	Good	Very Good	Excellent	
Punctuality/Timely completion of assigned work				✓		
Learning capacity-Knowledge up gradation				✓		
Performance/Quality of work				✓		
Behavior/Discipline/Team work				✓		
Sincerity/Hard work					✓	
Comment on nature of work done/ Areas/Topics						
CNG Gas plant in jason Varanasi (D.P.)						
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT					
Name of Industry Mentor	MR. MANISH SRIVASTAV					
Signature of Industry Mentor			ASHIRBAD ENTERPRISE Bishnu Rabha Nagar Noonmati, Guwahati-781020			

Receiving Date	Name of Faculty Mentor	Dr. Prachi Singh	Sign	
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Civil Engineering Department

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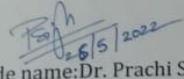
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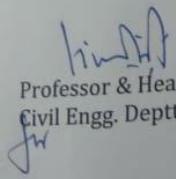
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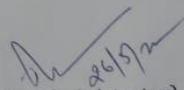
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Roll No.: 0901CE193D06


Guide name: Dr. Prachi Singh
Designation: Assistant Professor
Civil Engineering Department


Professor & Head of
Civil Engg. Deptt.


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