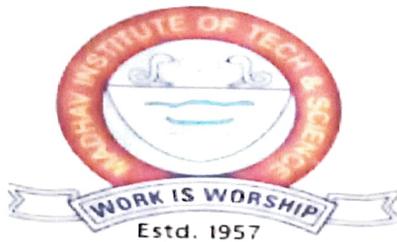


# MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE GWALIOR, (M.P).

(A govt. Aided Autonomous Institute under RGPV, Bhopal (M.P) Established in 1957)



AN  
INTERNSHIP REPORT  
ON  
"BUILDING WORKS OF GARDEN CITY , GWALIOR, ( M.P)"  
FROM - 19 /Jan. /2022 to 21 /May /2022. ( Four months)

IN PARTIAL FULFILLMENT FOR REQUIREMENT FOR THE AWARD OF THE DEGREE OF  
BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING  
MAY 2022

Submitted By –Ajay Singh Kuwer – (0901CE193D01)

FACULTY MENTOR-

Aditya Kumar Agarwal  
Assistant Professor  
Department of Civil Engineering, MITS, Gwalior

INDUSTRY MENTOR-

Er. Akhilesh Singh Bhadoriya  
Senior Engineer  
Neoteric Group, Gwalior, (M P).



**Madhav Institute of Technology & Science, Gwalior, (M.P).**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V, Bhopal)



**INTERNSHIP COMPLETION CERTIFICATE**

**To whomsoever it may concern**

This is to certify that Mr. Ajay Singh Kuwer B.Tech (Civil Engineering)  
Final Year has successfully completed internship  
at Neoteric Group, Gwalior from 19-01-2022 to 21-05-2022  
At work he has proven good results and is highly dependable.  
He has no pending assignments.

We wish him all the best and success in future career endeavors.

Date : May 28, 2022

NEOTERIC GROUP

## RECOMMENDATION

It is hereby recommended that the internship report entitled — “**Building works of Garden City , Gwalior, (M.P)**” which is being submitted by Ajay Singh Kuwer completed under the mentorship of Professor Aditya Kumar Agarwal may be accepted in the partial fulfillment of the award of the degree of Bachelor of Technology in Civil Engineering.

Submitted By-

  
02/06/2022

Ajay Singh Kuwer – (0901CE193D01)

Date -

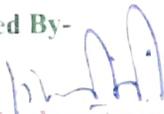
Faculty Mentor-

  
2/6/2022

Aditya Kumar Agarwal

Assistant Professor  
Department of Civil Engineering, MITS, Gwalior

Forwarded By-

  
for Head of the department of  
Civil Engineering MITS, Gwalior.  
HEAD  
Engg. Deptt.  
M.I.T.S. Gwalior

## ACKNOWLEDGEMENT

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 mentor **Aditya Kumar Agarwal Sir**, Assistant Professor of Civil Engineering Department, MITS Gwalior. Also, I would like to thank **Dr. M.K. Trivedi**, Head of Civil Engineering Department, MITS Gwalior, and all other academics and staff members of MITS Gwalior's Civil Engineering Department for their unwavering support throughout the internship. I am really grateful to **Dr. R. K. Pandit**, Director of MITS Gwalior, for establishing an outstanding institutional environment and for giving all facilities and assistance in the preparation of my dissertation. I also acknowledge with gratitude to our supporting **Mr. VIKRAM** for providing the facilities needed for the accomplishment of this internship. I am very thankful to my Institute and Neoteric Group, Gwalior (M.P) 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 internship.**

**Ajay Singh Kuwer (0901CE193D01)**

## **ABSTRACT**

Seeing just the construction of a structure is not only sufficient but it is also important to know the reason behind it's making and this was possible for me with combined efforts of staff members of Neoteric Group and my learnings from graduation course from M.I.T.S college .Which helped me to get a better insight about application of knowledge on field and also get some extra knowledge about building works , which was not possible for me to learn only from books .

## ABSTRACT IN HINDI

केवल एक संरचना का निर्माण देखना ही पर्याप्त नहीं है, बल्कि इसके बनने के पीछे के कारण को जानना भी महत्वपूर्ण है और यह मेरे लिए नियोटेरिक ग्रुप के स्टाफ सदस्यों के संयुक्त प्रयासों और एम.आई.टी.एस कॉलेज से स्नातक पाठ्यक्रम से मेरी सीख के साथ संभव हुआ। जिसने मदद की। मुझे क्षेत्र पर ज्ञान के अनुप्रयोग के बारे में बेहतर जानकारी प्राप्त करने और निर्माण कार्यों के बारे में कुछ अतिरिक्त ज्ञान प्राप्त करने के लिए, जो मेरे लिए केवल किताबों से सीखना संभव नहीं था।

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### List of Abbreviations

1. P .C .C -Plain Cement Concrete.
2. Dia – Diameter .
3. S .W -Stone Ware.
4. R. C. C- Reinforced Cement Concrete.
5. D.W.C – Double wall Corrugated.
6. C.P.V.C-Chlorinated Polyvinyl Chloride.
7. U.P.V.C- Unplasticised Polyvinyl Chloride.
8. H.D.P.E- High density polyethylene.
9. A. A.C – Autoclaved aerated concrete.

## Weekly Schedule

<b>Serial no.</b>	<b><u>Week</u></b>	<b><u>Nature of work</u></b>
1	1,2,3 and 4	Excavation of commercial building (footing), reinforcement of footings and columns and casting. Second floor slab club building casting (complex). Duplex structure work.
2	5 and 6	Plinth beam of commercial building, Duplex plinth beams, water tank (over head) plinth beam.
3	7 and 8	Column and shuttering of commercial building. Column and shuttering of Duplex and column and shuttering of water tank ground floor .
4	9 and 10	Shuttering and slab casting of ground floor duplex,. Road crossing trench covering with covers , H.T line electrical H – beam location marking .
5	11 and 12	Brick work of Duplex, roads side kerb stone levelling, commercial building ground floor slab.
6	13 and 14	Plaster of ground floor of Duplex , S.T.P tank retaining walls , road marking.

7	15 and 16	Layout of Garden work , slab ( first floor ) of Duplex , water tank first lift column reinforcement.
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## INTRODUCTON

I worked at Garden City , Gwalior,(M.P). Of Neoteric Group .

Neoteric's primary business is the development of residential, commercial, and retail properties. The company has a unique business model with earnings arising from development and rentals. Its exposure across businesses, segments, and geographies, mitigates any down-cycles in the market.

It has two subsidiary firms apart from Neoteric Constructions Pvt. Ltd., they are - GLR Real Estate Pvt. Ltd. & Gravity Infrastructures Pvt. Ltd.

Company few projects leaving Garden City are – NG- Grande ,Nature park, Garden palace, Gulmohar City .

Garden City :It's construction started in the month October 2021.It is located opposite of VISM GROUP ,Jhansi road .It is a fully planned city building in 100 begha of land .It consist of :

- Duplexes which are of three sizes:
- 24\*60 square feet,
- 20\*55 square feet and
- 20\*50 square feet.
- Some plots are also cut in it.
- It has small - small gardens available instead of single garden for the whole city.

- It has commercial building, swimming pool ,sports activity play grounds .
- Has sewage treatment plant ,overhead and under water tank for supply of water.

**Garden City**

(Figure- 1)



## WORKS PERFORMED

- **Site clearance:**

Before doing the layout of commercial building ground clearance was done by the use of machines and the ground was made even ,some extra soil was removed and small plants , bushes, dry grass ,weeds were removed.

- **Layout of commercial building :**

After site clearance points were transferred on the ground by the use of total station from a pre fixed reference point and small pegs were put in the ground where commercial building was to be made , to show the location of points on the ground .

Thread was tie down along the pegs and white powder was put on along the thread to show the boundary of the building.

Marking for excavation of soil was done with the white powder on the ground for foundation work.

(Figure -2)



- **Excavation work :**

Excavation was done with the Backhoe machine of the marked region where footings were to be made.

- **P.C.C Work and termite treatment work:**

P.C.C work was performed by the use of M15 (1:2:4) concrete and termite treatment was performed in all the excavated region of footing for resistance againsts termite.

(Figure-3)



### **Marking of location on solid P.C.C :**

Marking of area of each footing and column was done to get the exact position of footing and column after p .c .c had achieved sufficient strength.

After this each footing and it's column were made up to the height where plinth beam was to be made , curing was performed for few days and whole area was covered with soil up to the ground level.



Figure-( 4 and 5) .



- **Masonry work of Duplexes:**

Masonry work was done by use of ratio 1:8 for double wall brick work and 1:6 ratio for single wall brick.

- **Waterproofing work :**

U.R.P was done on walls where salt formation on brick walls was taking place as a trial basis.

- **Finishing work :**

Plaster work was done by the use of ratio 1:5 for ceiling and walls with 15mm thick mortar.

- **Leveling work:**

Performed leveling work for laying of sewer line .

Performed leveling work for fitting of Kerb Stone on both side of road .

Performed leveling work in a garden to check the level of masonry walls as required .



(Figure-6 and 7)



- **Measurement work:**

Measurement and marking done prior to construction of a garden by the use of measuring tape, pegs, thread, marker, drawings.

For all this measurement near by plots boundary walls were taken as a reference .

- **Installation of electric line poles:**

Installation of electric line poles were done in front of me. H- Beams were used for it.

For doing it first marking was done where electric poles were to be put in.

Each and every marked region was dug about five feet and poles were erected by the use of concrete, which was prepared on spot there.

- **Making of Chambers:** (figure-8)



Marking of region was done to make each chamber before making it with some specified distance from each plot.

- **Checking of Formwork for beam and slab:**

Checked formwork prior to casting of slab and beam .

Checked the depth of beam from the bottom of the slab and clear span along both the direction of slabs in Duplex.

- **Type of joint provided in columns:**

Lap joint is provided in bars of dia less than 20mm and coupling is provided in steel bars of dia 20mm and above.

- **Check of column bars joints:**

All bar were well spaced and all lapped joined and bars were alternately lapped so that all the joints don't meet up at same level .

- **Check of drawings:**

Checked whether the slab has to be made reinforced as a one way slab or a two way slab even if mentioned in the drawing prior to cutting and laying of bars on the formwork made for slabs.

- **Check for extension of bars:**

Checked whether the bars are extended to the adjacent slab or not while the laying of bars was done on the formwork for slabs.

### **Types of pipes used for various purpose in project :**

- 1.For sewer: S.W and D.W.C pipes.
- 2.For water supply: H.D.P.E pipes.
- 3.For bathrooms :C.P.V.C pipes.
- 4.P.V.C pipes for sewage and rain water in Duplexes.
- 5.Hume pipes used for crossings.

- **Concrete work:**

All concrete was prepared on site by the use Drum mixer .  
For vertical members like column M25 concrete was used  
and for horizontal members like slab ,footing, beam M20  
concrete was used .

- **Excavation work :**

Excavation was done with the Backhoe machine of the  
marked region where footings were to be made.

- **Type of staircase used :**

Doglegged staircases were used in Duplexes and Commercial Building.



(Figure-9)

- **Some pictures showing machines and work:**

1. How a single wall brick is made :

Shows the made by use reinforced concrete course layer of thickness 4 inches provided after 3 to 4 feet height .



(Figure-10)

2. Picture showing the machines used for straightening and cutting of bars. ( Figure- 11 and 12)



3. Machine used for lifting and placing of objects:  
(Figure-13)



4. Filling of earth up to plinth level in a Duplex :  
(Figure-14).



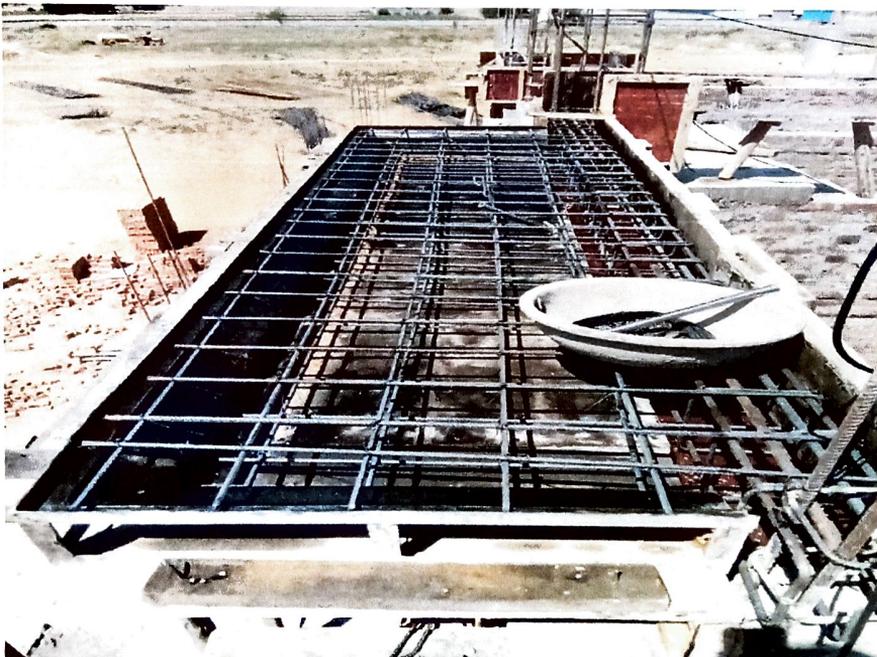
5. Block used for boundary of the Garden City:

A.A.C Blocks were used and were bonded to each other by cement paste instead of mortar.



(Figure-15).

6. Moulds and supports were prepared for making of arch's and providing outer side cornice of R.C.C.



(Figures-16 and 17).

## **Conclusion**

I learned a lot of things like read the drawings, use of Auto level for leveling work , Seen how approximately project work completion dates are pre determined by engineers over there , learned to measure and mark the points as per drawing using measuring tape before doing its layout. Seen various machines used to carry out work at large scale .

Finally this internship was helpful to me to gain some extra knowledge as well as use of graduation course learnings on field.

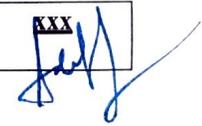
# ANNEXURES



## FORMAT

### FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	xxxxxxx AJAY SINGH KUMAR	Department	xxxx CIVIL ENGINEERING		
Industry/Organization	xxxxxxxxxxxxx NEOTERIC GROUP.	Date/Duration	DD/MM/YR - DD/MM/YR 19/01/22 / 4wks 19/01/2022 - 21/05/2022		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
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	Excavation of Commercial Building (footing), reinforcement of footings and columns, and casting. Second floor slab & clubs building casting (complete). Duplex structure work.				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> VERY GOOD				
<b><u>Name of Industry Mentor</u></b>	AKHILESH SINGH BHADORIYA				
<b><u>Signature of Industry Mentor</u></b>	 17/02/22				

Receiving Date	xxxx 17/02/22	Name of Faculty Mentor	P. ADITYA CHANDRAN	Sign	
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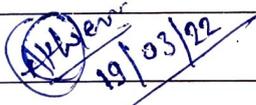
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Industry/Organization	xxxxxxxxxxxxx NEOTERIC GROUP	Date/Duration	DD/MM/YR - DD/MM/YR 19/01/2022 - 21/05/2022		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	plinth Beam of Commercial Building, Duplex plinth Beams, water tank (overhead) plinth Beam				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good				
<b><u>Name of Industry Mentor</u></b>					
<b><u>Signature of Industry Mentor</u></b>	 4/03/22				

Receiving Date	xxxx 11/3/22	Name of Faculty Mentor	xxx P. ADITYA AGARWAL	Sign	xxx 
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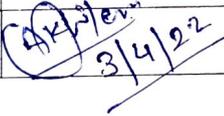
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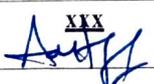
Name of student	XXXXXXXXXXXXXX <b>A JAY SINGH KUMAR</b>	Department	XXXX <b>CIVIL ENGINEERING</b>		
Industry/Organization	XXXXXXXXXXXXXX <b>NEOTERIC GROUP</b>	Date/Duration	DD/MM/YR -DD/MM/YR <b>19/01/2022 - 21/05/2022</b>		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge up gradation			✓	1	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Column and shuttering of Commercial Building, Column and shuttering of Duplex and column and shuttering water Tank (c.a)				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good				
<b><u>Name of Industry Mentor</u></b>					
<b><u>Signature of Industry Mentor</u></b>	 19/05/22				

Receiving Date	XXXX <b>20/3/22</b>	Name of Faculty Mentor	XXX <b>P. ADITYA AGARWAL</b>	Sign	XXX 
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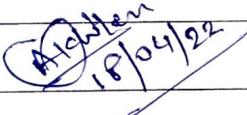
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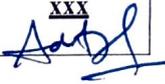
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Industry/Organization	xxxxxxxxxxxxx NEOTERIC GROUP	Date/Duration	DD/MM/YR -DD/MM/YR 19/01/2022 - 21/05/2022
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b> <b>Very Good</b> <b>Excellent</b>
Punctuality/Timely completion of assigned work			✓
Learning capacity/Knowledge up gradation			✓
Performance/Quality of work			✓
Behaviour/Discipline/Team work		✓	
Sincerity/Hard work			✓
Comment on nature of work done/Area/Topic	shuttering and slab casting at Duplex Road crossing trench covering with covers, HT line electrical H-Beam location marking.		
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good		
<b><u>Name of Industry Mentor</u></b>			
<b><u>Signature of Industry Mentor</u></b>	 3/4/22		

Receiving Date	xxxx 7/4/22	Name of Faculty Mentor	xxx P. ADITYA AGARWAL	Sign	xxx 
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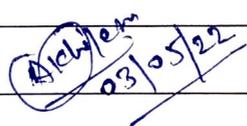
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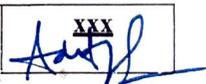
Name of student	xxxxxx AJAY SINGH KUMAR	Department	xxxx CIVIL ENGINEERING		
Industry/Organization	xxxxxx NEOTERIC GROUP	Date/Duration	DD/MM/YR - DD/MM/YR 19/01/2022 - 21/05/2022		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of 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	Bridework of duplex Road side <del>kerb</del> kerb stone levelling, Commercial building Ground floor slab				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good				
<b><u>Name of Industry Mentor</u></b>					
<b><u>Signature of Industry Mentor</u></b>	 18/04/22				

Receiving Date	xxxx 22/4/22	Name of Faculty Mentor	xxx P. ADITYA AGARWAL	Sign	xxx 
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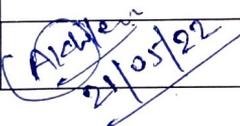
**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	xxxxxxxxxxxxx AJAY SINGH KUMAR	Department	xxxx CIVIL ENGINEERING		
Industry/Organization	xxxxxxxxxxxxx NEOTERIC GROUP	Date/Duration	DD/MM/YR -DD/MM/YR 19/01/2022 - 21/05/2022		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
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	Plaster <del>work</del> of Ground floor of Duplex, SFP Tank retaining walls, Road marking.				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good				
<b><u>Name of Industry Mentor</u></b>					
<b><u>Signature of Industry Mentor</u></b>	 03/05/22				

Receiving Date	xxxx 5/5/22	Name of Faculty Mentor	xxx P. ADITYA AGARWAL	Sign	xxx 
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**FORMAT**

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

Name of student	xxxxxxxxxxxxx AJAY SINGH KUMAR	Department	xxxx CIVIL ENGINEERING		
Industry/Organization	xxxxxxxxxxxxx NEOTERIC GROUP	Date/Duration	DD/MM/YR - DD/MM/YR 19/01/2022 - 21/05/2022		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
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	Layout of Garden work, slab (1st floor) of Duplex, (Water tank 1st lift Column reinforcement.				
<b><u>OVERALL GRADE (Any one)</u></b>	<b><u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u></b> Good				
<b><u>Name of Industry Mentor</u></b>					
<b><u>Signature of Industry Mentor</u></b>	 21/05/22				

Receiving Date	xxxx 30/5/22	Name of Faculty Mentor	xxx P. ADITYA NARAYAN	Sign	xxx 
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Civil Engineering Department

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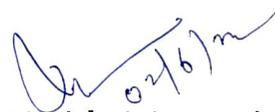
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