


REPORT OF PROJECT 2020-21

Total No Of Student - 29

S N	STUDENT NAME	PROJECT TITLE NAME
1	SHIFA MIRZA	Solar lamp & power bank using solar panel
2	BHOORASHMI PATEL	Compact mobile charger and solar lamp
3	VISHAKHA SINGH	Automatic water dispenser using arduino
4	HARISH	Automatic water dispenser using arduino
5	PRIYA VIDYA	To make a thorough study of warmed steam vaporizer and all accessories associated with it
6	SATESH KUMAR	Wireless notice board using arduino
7	SEWENT KUMAR	Wireless notice board using arduino
8	NANDANI DEWAGAN	Steam inhaler
9	MANEESH KUMAR	Automatic water dispenser using arduino
10	KANCHAN DEWAGAN	Automatic water dispenser using arduino
11	VIMAL KUMAR DEWAGAN	Automatic plant watering system using arduino
12	JYOTI DEWAGAN	Thin film deposition by spray pyrolysis method
13	UMA SEN	Automatic plant watering system using
14	ARCHANA VARMA	Compact mobile charger and solar lamp
15	ROSHANI SAHU	Wire-less notice board using arduino
16	DEVIKA	Wire-less notice board using arduino
17	GANESHWAR	Bi- directional visitor counter
18	TANUJA	Bi- directional visitor counter
19	DOMESH KUMAR	Bi- directional visitor counter
20	SNEHA CHAURASIYA	Smart dustbin with using arduino
21	POONAM DEWAGAN	Bi- directional visitor counter
22	MONIKA THAKUR	Solar lamp & power bank using solar panel
23	DEEKHSA RANI SAHU	Compact mobile charger and solar lamp
24	GITENDRA	Automatic plant watering system using arduino
25	AARTI PATEL	Smart dustbin with using
26	DHANESHWARI SAHU	Bi-directional visitor counter
27	JYOTI ADIL	To make a thorough study of warmed steam vaporizer & all accessories associated with it
28	INDU GUPTA	Compact mobile charger and solar lamp
29	RAJAN JOSHI	Automatic plant watering system using arduino

HOD


Head of Dept. of Physics & Electronics
Kalyan P.G. College
Inagar (C.G.) 490006

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLEGE BHILAI NAGAR



CERTIFICATE

This is to certify that, the work on the report entitled "compact mobile charger and solar lamp" by **BHOORASHMI PATEL** in partial fulfillment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance. The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date : 18/2/21

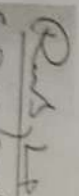
Guided by

Dr. Neelam Sukla Mam

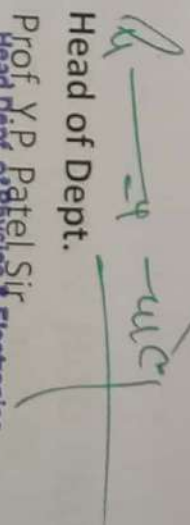
Dept. of Physics and Electronics
Kalyan P.G. Collage Bhilai Nagar

Examined By

RN BAGHEL


(RN Baghel)

Head of Dept.


Prof. Y.P. Patel Sir
Head Dept. of Physics & Electronics
Dept. of Physics and Electronics
Kalyan P.G. collage Bhilai
Institute (C.G.) 490006

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on “Automatic water dispenser using arduino” has been carried out by **VISHAKHA SINGH** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

She has carried out the project under my guidance and this is her original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan**

**(Assistant Professor
Dept. of ET&T BIT DURG)**

Examined by

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490009**

**Prof. Y.P. PATEL
(HOD Department of
physics)**

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**Automatic water dispenser using arduino**" has been carried out by **HARISH** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan**

**(Assistant Professor
Dept. of ET&T BIT DURG)**

Examined by

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL
(HOD Department of
physics)**

CERTIFICATE

This is to certify that the project entitled "Solar Lamp & Power Bank using Solar Panel" has been carried out by the student of Master of Science degree in Physics, is completed by

Shifa Mirza

of

Kalyan PG Collage

Department of Physics & Electronics

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

During the academic session 2020-21 towards partial fulfillment as per required of Hemchand Yadav University, Durg.

Dr. Neelam Shukla
(RN Baghel)

Guided By:

Dr. Neelam Shukla

(Asst. Prof. of Physics Dept)

Examined By:

Y.P. Patel
Head Dept. of Physics & Electronics
Kalyan P.G. College
inagar (C.G.) 490006

Head of Department:

Prof.Y.P.Patel

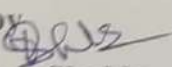
**DEPARTMENT OF PHYSICS &
ELECTRONICS
KALYAN P. G. COLLEGE, BHILAI**

CERTIFICATE

This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by Priya Vaidya in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge.

Place: Bhilai

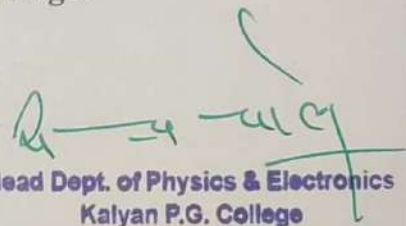
Date: 13/8/21

Guided by 
Dr. Neelam Shukla

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

Examined by

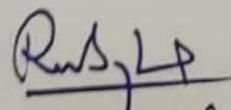

Head Dept. of Physics & Electronics
Kalyan P.G. College
inagar (C.G.) 490006
Head of Dept.

Prof. Y.P. Patel

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

External signature


(R N Baghel)

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SATEESH KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13/8/2021

Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)

(R.N. Baghel)

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Prof. Y.P. PATEL

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SEWANT KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)**

**Examined by
(HOD Department of physics)**

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL**

DEPARTMENT OF PHYSICS & ELECTRONICS
KALYAN P. G. COLLEGE, BHILAI



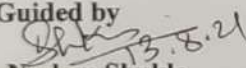
CERTIFICATE

This is to certify that, the work in the report entitled "Steam Inhaler" by **Nandani Dewangan** in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date:

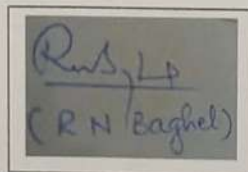
Guided by

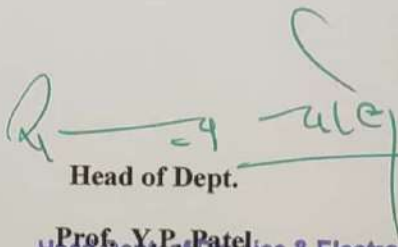

Dr. Neelam Shukla

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

Examined by




Head of Dept.

Prof. Y.P. Patel
Head Dept. of Physics & Electronics
Kalyan P.G. College
Dept. of Physics and electronics
Kalyan P.G. College , Bhilai

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on “**Automatic water dispenser using arduino**” has been carried out by **MANEESH KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan**

Examined by

(HOD Department of physics)

**Head Dept. of Physics & Electronics
Kalyan P.G. College
† Inagar (C.G.) 490006**

Prof. Y.P. PATEL

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on **“Automatic water dispenser using arduino”** has been carried out by **Kanchan Dewangan** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

She has carried out the project under my guidance and this is her original work.

Place : Bhilai

Date :

Guided by
Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

Examined by

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL
(HOD Department of physics)

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on
"AUTOMATIC PLANT WATERING SYSTEM USING
ARDUINO-MASTER" has been carried out by **VIMAL KUMAR
DEWANGAN** a student of **Kalyan P.G. college Bhilai Nagar
(C.G.)**. He has submitted the report during the academic session 2020-
2021 towards partial fulfillment as per required of **Hemchand yadav
University (Durg University)**.
He has carried out the project under my guidance and this is his
original work.

Place : Bhilai

Date :

Guided by

Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

(P.H. 2018/19)

Examined by

Prof. Y.P. PATEL
(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

KALYAN P.G. COLLEGE, BHILAI NAGAR

AFFILIATE TO HEMCHANDYADAV UNIVERSITY, BURG (C.G.)



CERTIFICATE

This is certify that the " THIN FILM DEPOSITION BY SPRAY PYROLYSIS METHOD" by JYOTI DEWANGAN in partial fulfillment of the award of MSc IN PHYSICS at the KALYAN P.G. COLLEGE, BHILAI NAGAR is an authentic work carried out by her under my supervision and guidance to the best of my knowledge.

GUIDED BY
DR. N. SHUKLA

SIGN OF
Prof. N. Shukla
Department of Physics
Kalyan P.G. College,
Bhilai, Bargarh & Jajpur

PROF. Y.P. PATEL

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai, Bargarh (C.G.) 751006

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on
“AUTOMATIC PLANT WATERING SYSTEM USING
ARDUINO-MASTER ” has been carried out by **UMA SEN** a
student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has
submitted the report during the academic session 2020-2021 towards
partial fulfillment as per required of **Hemchand yadav University**
(Durg University).
He has carried out the project under my guidance and this is his
original work.

Place : Bhilai

Date :

R. N. Singh
(R.N. Singh)

Guided by

Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

Examined by

(HOD Department of physics)

R. N. Singh
Prof. Y.P. PATEL

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLAGE BHILAI NAGAR



CERTIFICATE

This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by **ARCHANA VERMA** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance . The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date :

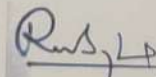
Guided By

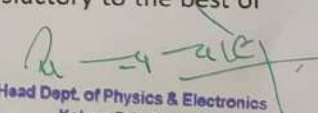
Dr. Neelam Sukla Mam

Daprtment of physics and electronics
electronics

Kalyan P.G. collage Bhilai Nagar

Examine By


(R N Baghel)


Head Dept. of Physics & Electronics
Kalyan P.G. College
(Ph. No.) 490006

Head of Dept.

Prof. Y.P. Patel Sir

Daprtment of physics and

Kalyan P.G. Collage Bhilai Nagar

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **ROSHANI SAHU** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13/04/2021

**Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)**

Examined by

Prof. Y.P. PATEL

(HOD Department of physics)
Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on **“WIRE-LESS NOTICE BOARD USING ARDUINO”** has been carried out by **DEVIKA** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.
He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13/08/2021

**Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)**

Examined by

(HOD Department of physics)
Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Prof. Y.P. PATEL

Kalyan Post Graduate College, Bhilai Nagar
Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by GANESHWAR in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13-08-2021

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Head of the Dept.

Kalyan Post Graduate College, Bhilai Nagar

Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by TANUJA in partial fulfillment of Master of Science degree in PHYSICS at **Kalyan Post Graduate College, Bhilai Nagar**, affiliated by **Hemchand Yadav University, Durg (Chhattisgarh)** is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13/08/2021

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Head of the Dept.

Kalyan Post Graduate College, Bhilai Nagar
Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled '**BI-DIRECTIONAL VISITOR COUNTER**' by **DOMESH KUMAR** in partial fulfillment of Master of Science degree in PHYSICS at **Kalyan Post Graduate College, Bhilai Nagar**, affiliated by **Hemchand Yadav University, Durg (Chhattisgarh)** is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13/08/2021

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Head of the Dept.

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

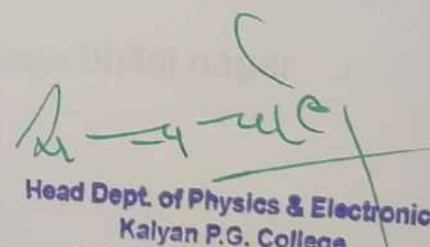
This is to certify that the project report on "SMART DUSTBIN WITH USING ARDUINO-MASTER " has been carried out by SNEHA CHOURASIYA a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University). She has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

Guided by  Examined by
Dr. NEELAM SHUKLA

(Assistant Professor
Of kalyan College Bhilai)


Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.)-490006
Prof. Y.P. PATEL
(HOD Department of
physics)

DEPARTMENT OF PHYSICS & ELECTRONICS
KALYAN P. G. COLLEGE, BHILAI



CERTIFICATE

This is to certify that, the work in the report entitled "Steam Inhaler" by Nandani Dewangan in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date:

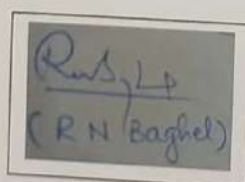
Guided by

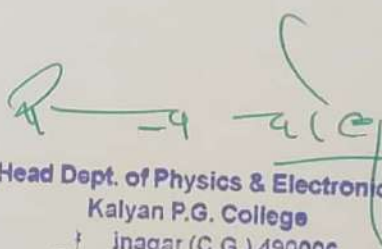

Dr. Neelam Shukla

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

Examined by




Head Dept. of Physics & Electronics
Kalyan P.G. College
inagar (C.G.) 490006
Head of Dept.

Prof. Y.P. Patel

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

Kalyan Post Graduate College, Bhilai Nagar
Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by POONAM DEWANGAN in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 33/08/21

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

(P.N. Engg.)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Head of the Dept.

Kalyan Post Graduate College, Bhilai Nagar
Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by **GANESHWAR** in partial fulfillment of Master of Science degree in **PHYSICS** at **Kalyan Post Graduate College, Bhilai Nagar**, affiliated by **Hemchand Yadav University, Durg (Chhattisgarh)** is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13-08-2021

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

R. N. Singh
(R.N. Singh)

Examined By

Head of the Dept.

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Y. P. Patel
Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

CERTIFICATE

This is to certify that the project entitled "Solar Lamp & Power Bank using Solar Panel" has been carried out by the student of Master of Science degree in Physics, is completed by

MONIKA THAKUR

of

Kalyan PG Collage

Department of Physics & Electronics

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

During the academic session 2020-21 towards partial fulfillment as per required of Hemchand Yadav University, Durg.

RAJAT
(P.H. English)

Guided By: *Dr. Neelam Shukla*

Dr. Neelam Shukla
(Asst. Prof. of Physics Dept)

Head of Department:

Prof. Y.P. Patel

Head Dept. of Physics & Electronics
Kalyan P.G. College
Inagar (C.G.) 490006

28-9-21

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **DEVIKA** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University** (Durg University). He has carried out the project under my guidance and this is his original work.

Place : Bhilai
Date : 18/08/2021

Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)

Examined by
Prof. Y.P. PATEL
(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLEGE BHILAI NAGAR




CERTIFICATE

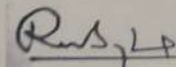
This is to certify that, the work on the report entitled "compact mobile charger and solar lamp" by **DEEKSHA RANI SAHU** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance. The work is satisfactory to the best of my knowledge.

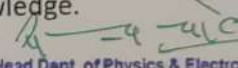
Place : Bhilai

Date :

Guided by 
Dr. Neelam Sukla Mam
Dept. of Physics and Electronics
Kalyan P.G. Collage Bhilai Nagar

Examined By


(R.N. Baghel)


Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Head of Dept.

Prof. Y.P. Patel Sir
Dept. of Physics and Electronics
Kalyan P.G. collage Bhilai

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLEGE BHILAI NAGAR

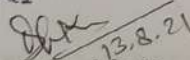


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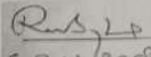
This is to certify that, the work on the report entitled "compact mobile charger and solar lamp" by **BHOORASHMI PATEL** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance. The work is satisfactory to the best of my knowledge.

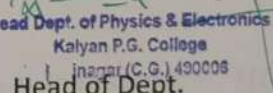
Place : Bhilai

Date : 13/8/21

Guided by 
Dr. Neelam Sukla Mam
Dept. of Physics and Electronics
Kalyan P.G. Collage Bhilai Nagar

Examined By
RN BAGHEL


(RN Baghel)


Head Dept. of Physics & Electronics
Kalyan P.G. Collage
Bhilai Nagar (C.G.) 490008

Head of Dept.

Prof. Y.P. Patel Sir
Dept. of Physics and Electronics
Kalyan P.G. collage Bhilai

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on **“AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER ”** has been carried out by **GITENDRA** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.
He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13-08-2021

Guided by
Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLAGE BHILAI NAGAR

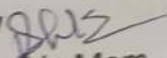


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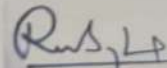
This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by **ARCHANA VERMA** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance . The work is satisfactory to the best of my knowledge.

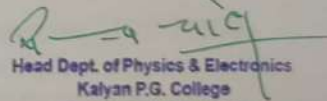
Place : Bhilai

Date :

Guided By 
Dr. Neelam Sukla Mam
Daprtment of physics and electronics
electronics
Kalyan P.G. collage Bhilai Nagar

Examine By


(R N Baghel)


Head Dept. of Physics & Electronics
Kalyan P.G. Collage
Bhilai Nagar (C.G.) 490006

Head of Dept.

Prof. Y.P. Patel Sir

Daprtment of physics and

Kalyan P.G. Collage Bhilai Nagar

DEPARTMENT OF PHYSICS & ELECTRONICS

KALYAN P. G. COLLEGE, BHILAI

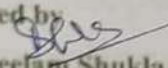


CERTIFICATE

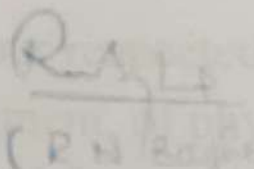
This is to certify that, the work in the report entitled "smart dustbin with using arduino" by AARTI PATEL in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge.

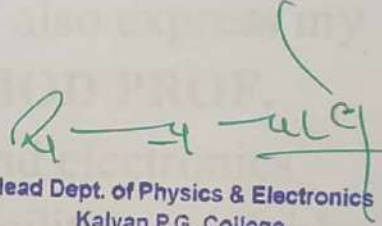
Place: Bhilai

Date: 18/08/2021

Guided by

Dr. Neelam Shukla

Dept. of Physics and electronics
Kalyan P.G. College , Bhilai


Examined by


Head Dept. of Physics & Electronics
Kalyan P.G. College
Inagar (C.G.) 490006
Head of Department

Prof. Y.P. Patel
Dept. of Physics and electronics
Kalyan P.G. College , Bhilai

Kalyan Post Graduate College, Bhilai Nagar

Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by DOMESH KUMAR in partial fulfillment of Master of Science degree in PHYSICS at **Kalyan Post Graduate College, Bhilai Nagar**, affiliated by **Hemchand Yadav University, Durg (Chhattisgarh)** is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13-08-2021

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Head of the Dept.

Kalyan Post Graduate College, Bhilai Nagar
Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by DHANESHWARI SAHU in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13/08/21

Guided By

Mrs. Kiran Dewangan
Asst. Professor
(Dept. of ET&T, BIT, DURG)

Examined By

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

Head Dept. of Physics & Electronic
Kalyan P.G. College
Bhilai Nagar (C.G. 1490006)
Head of the Dept.

Prof. Y. P. Patel
(Dept. of Physics and Electronics)

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on “**Automatic water dispenser using arduino**” has been carried out by **MANEESH KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

**Guided by
Mrs.Kiran Dewangan**

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics

Kalyan P.G. College

Bhilai Nagar (C.G.) 490006

Prof. Y.P. PATEL

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**Automatic water dispenser using arduino**" has been carried out by **Kanchan Dewangan** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

She has carried out the project under my guidance and this is her original work.

Place : Bhilai

Date :

Guided by

**Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)**

Examined by

(HOD Department of physics)

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006**

Prof. Y.P. PATEL

**DEPARTMENT OF PHYSICS &
ELECTRONICS
KALYAN P. G. COLLEGE, BHILAI**

CERTIFICATE

This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by jyoti adil in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date:

Guided by
Dr. Neelam Shukla

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

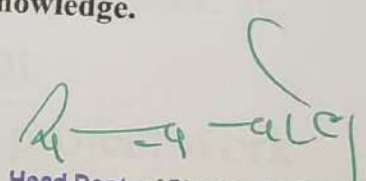
Examined by

Dept. of Physics and electronics

Kalyan P.G. College , Bhilai

External signature

R.N. Baghel
(R N Baghel)


Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai (C.G.) 490006
Head of Dept.

Prof. Y.P. Patel

Kalyan Post Graduate College, Bhilai Nagar

Department of physics and Electronics



CERTIFICATE

This is to certify that the work in the report entitled '**BI-DIRECTIONAL VISITOR COUNTER**' by TANUJA in partial fulfillment of Master of Science degree in PHYSICS at **Kalyan Post Graduate College, Bhilai Nagar**, affiliated by **Hemchand Yadav University, Durg (Chhattisgarh)** is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13/08/2021

Guided By

Mrs. Kiran Dewangan

Asst. Professor

(Dept. of ET&T, BIT, DURG)

Examined By

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006**

Head of the Dept.

Prof. Y. P. Patel

(Dept. of Physics and Electronics)

DEPARTMENT OF PHYSICS AND ELECTRONICS
KALYAN P.G. COLLEGE BHILAI NAGAR



CERTIFICATE

This is to certify that, the work on the report entitled "compact mobile charger and solar lamp" by **INDU GUPTA** in partial fulfillment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance. The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date : 13/8/2021

Guided by *[Signature]* 13.8.21

Dr. Neelam Sukla Mam

Dept. of Physics and Electronics

Kalyan P.G. Collage Bhilai Nagar

Examined By

RN BAGHEL

[Signature]
(RN Baghel)

Head Dept. of Physics & Electronics

Kalyan P.G. Collage

Bhilai (C.G.) 490006

Head of Dept.

Prof. Y.P. Patel Sir

Dept. of Physics and Electronics

Kalyan P.G. collage Bhilai

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on **“Automatic water dispenser using arduino”** has been carried out by **HARISH** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan**

**(Assistant Professor
Dept. of ET&T BIT DURG)**

Examined by

**Head Dept. of Physics & Electronics
Kalyan P.G. College**

**inagar (C.G.) 490006
Prof. Y.P. PATEL
(HOD Department of
physics)**

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on **“AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER ”** has been carried out by **UMA SEN** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

Guided by
Mrs.Kiran Dewangan
(Assistant Professor
Dept.of ET&T BIT DURG)

(R.N. Baghel)

Examined by
(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on “**Automatic water dispenser using arduino**” has been carried out by **VISHAKHA SINGH** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**. She has carried out the project under my guidance and this is her original work.

Place : Bhilai

Date :

**Guided by
Mrs. Kiran Dewangan**

**(Assistant Professor
Dept. of ET&T BIT DURG)**

Examined by

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL
(HOD Department of
physics)**

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on **“AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER”** has been carried out by **VIMAL KUMAR DEWANGAN** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

Guided by
Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Prof. Y.P. PATEL

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS

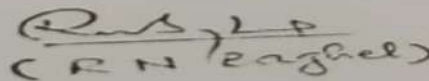


CERTIFICATE

This is to certify that the project report on "SMART DUSTBIN WITH USING ARDUINO-MASTER" has been carried out by SNEHA CHOURASIYA a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University). She has carried out the project under my guidance and this is his original work.

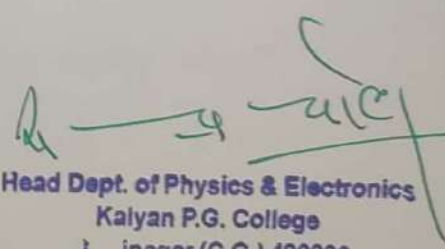
Place : Bhilai

Date :


(R.N. Shukla)

Guided by  Examined by
Dr. NEELAM SHUKLA

(Assistant Professor
Of kalyan College Bhilai)


Head Dept. of Physics & Electronics
Kalyan P.G. College
† inagar (C.G.) 490006

Prof. Y.P. PATEL
(HOD Department of
physics)

CERTIFICATE

This is to certify that the project entitled "Solar Lamp & Power Bank using Solar Panel" has been carried out by the student of Master of Science degree in Physics, is completed by

Shifa Mirza

of

Kalyan PG Collage

Department of Physics & Electronics

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

During the academic session 2020-21 towards partial fulfillment as per required of Hemchand Yadav University, Durg.

Dr. Neelam Shukla
(RN/Baghel)

Examined By:

Y.P. Patel
Head Dept. of Physics & Electronics
Kalyan P.G. College
Inagar (C.G.) 490006

Head of Department:

Prof.Y.P.Patel

Guided By:

Dr. Neelam Shukla
(Asst.Prof. of Physics Dept)

KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

This is to certify that the project report on **“AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER”** has been carried out by **RANJANA SONI** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date :

Guided by
Mrs. Kiran Dewangan
(Assistant Professor
Dept. of ET&T BIT DURG)

(R.N. Soni)

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL


**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**

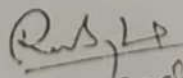


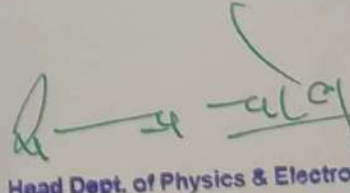
CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SEWANT KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.
He has carried out the project under my guidance and this is his original work.

Place : Bhilai
Date :


Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)


(R.N. Baghel)
Examined by


Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006
Prof. Y.P. PATEL
(HOD Department of physics)



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SATEESH KUMAR** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13/8/2021

Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)

Examined by

(HOD Department of physics)

Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006

Prof. Y.P. PATEL

**KALYAN POST GRADUATE COLLEGE
BHILAI NAGAR (C.G.)
DEPARTMENT OF PHYSICS AND ELECTRONICS**



CERTIFICATE

This is to certify that the project report on "**WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **ROSHANI SAHU** a student of **Kalyan P.G. college Bhilai Nagar (C.G.)**. He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of **Hemchand yadav University (Durg University)**.

He has carried out the project under my guidance and this is his original work.

Place : Bhilai

Date : 13/08/2021

**Guided by
Mrs. Kiran Dewangan
(Asst. Prof. BIT DURG)**

Examined by

(HOD Department of physics)

**Head Dept. of Physics & Electronics
Kalyan P.G. College
Bhilai Nagar (C.G.) 490006**

Prof. Y.P. PATEL

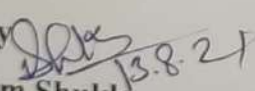
**DEPARTMENT OF PHYSICS &
ELECTRONICS
KALYAN P. G. COLLEGE, BHILAI**

CERTIFICATE

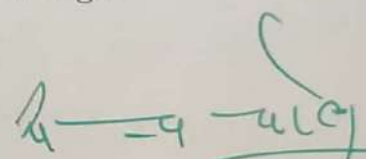
This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by Priya Vaidya in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried out by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

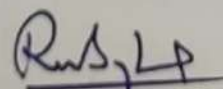
Date: 13/8/21

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