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Mech. Engg. Dept. **AIMSS Activity Report** AY:2021-22

Activity Report

S.No.	Title of the information	Information in brief						
1	Identified Gap No/s.:	14						
2	Activity Type:	Industry Visi	t A					
3	Activity/Event Organizer/s or Coordinator/s:	Dr. S. N.	Topannavar, Pro Department, HIT		D, Mechanical			
4	Title of the Activity/Event:		Industry Visit At Hidkal Dam Power Plant, Hidkal					
5	Date:	14-02- 2022	tritinama Dani	ower rame, ma	IXU1			
6	Venue:		k · Hukkeri Distri	ct: Belagavi				
7	Objectives:	 Hidkal, Taluk: Hukkeri, District: Belagavi To understand the working principles of hydraulic turbines. To understand & Types of hydropower generation plants. To understand layouts of hydropower plants. To Understand & new and advanced technologies of power generation. 						
8	Activity Outcomes:	 To understand the hydropower potential in India. Hydropower plants are a vital energy source to the world. Water is an efficient and reliable fuel. The use, creation, and expansion of power plants should continue being pursued. Understand the working principles of hydraulic turbine Understand energy conversion principle from hydraulic energy to mechanical output shaft energy 						
9	Details of Resource Person/s with contact details:	Mr. S.M. M Hidkal	Madiwale, AEE,	Civil Engineer,	HIdakl Dam,			
10	Finance Management:	Expenses inc	curred by the Depa	rtment Associati	on (AIMSS)			
11	No. of participants		oys: 10 & Girls: 0					
	110. or partition	PO mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment			
		PO1	3	99.6	2.988			
		PO2	3	99.6	2.988			
		PO3	3	99.6	2.988			
	Mapped POs ,Weight-age	PO4	3	99.6	2.988			
12	assigned & %age of	PO5	3	99.6	2.988			
	attainment : PO (Weight-age)	PO6	3	99.6	2.988			
		PO7	3 *	99.6	2.988			
		PO8	3	99.6	2.988			
	₩ E	PO9	3	99.6	2.988			
		PO10	3	99.6	2.988			
		PO11	3	99.6	2.988			
	,	PO12	3	99.6	2.988			
		- PSO	Weight-age	%age of	Level of			
13	Mapped PSOs ,Weight-age assigned & %age of	mapped	assigned (1/2/3)	Attainment	attainment			
	attainment : PSO (Weight-	PSO1	3	99.6	2.988			
	age)	PSO2	3	99.6	2.988			
		PSO3	3	99.6	2.988			
	<u> </u>	1. The acti	vity mapped with					

Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236 Phone: +91-8333-278887, Fax: 278886, Web:www.hsit.ac.inMail:hod@hsit.ac.in

H Ap

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Mech. Engg. Dept.

AIMSS

Activity Report

AY:2021-22

analysis:

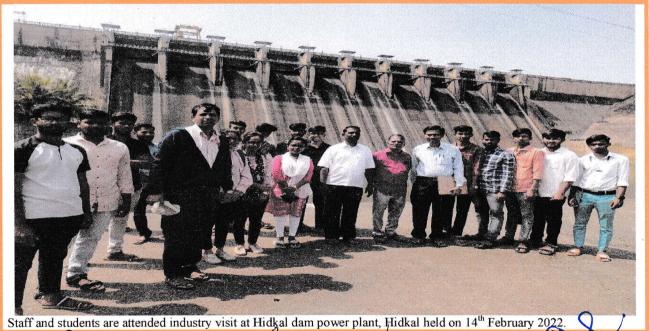
PO6, PO7, PO8, PO9, PO10, and PO11 & PO12 was found satisfactory with attainment level of 2.988 each against the Mapped values during the impact analysis.

2. The activity mapped with PSO1, PSO2 & PSO3 was found satisfactory with attainment level of 2.988 each against the Mapped value during the impact analysis.

Photo Gallery



Mr. S. M. Madiwale, AEE, Civil Engineer, HIdakal Dam, Hidkal is delivering about power plant house during industry visit held on 14th February 2022.



Mr. Vivekanand Kambi AIMSS Secretary Prof.M.M.Shivashimpi&Prof.D.N.Inamdar AIMSS-Coordinator/s

Dr.S.N.Topannavar

Mechanical Engg. HIT, Nidasoshi



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DEPARTMENT OF CIVIL ENGINEERING

Request Letter

Dept. Civil. Engg.

2021-22

Ref. No: HIT/CIVIL/03/2021-22

Date: 31/01/2022

To,
The Executive Engineer
K.N.N.L, G.R.B.C.C,Div. No-02
Hidakal Dam,
Tq; Hukkeri, Dist. Belagavi

Sub: Regarding Technical visit to Hidkal Dam for Second year Engineering Students,

Dear Sir,

With reference to above cited subject as a part of academic curriculum, the students and faculties of Department of Civil Engineering, S.J.P.N.T's Hirasugar Institute of Technology, Nidasoshi are going to visit your premises.

The students wish to visit the Dam site to understand Civil Engineering Concepts which is the part of their academic curriculum. We will undertake the responsibility of our students, for their behavior, any loss and damage during their visit.

Hence, we kindly request to permit the site visit and also provide valuable technical inputs so that our students can understand and appreciate.

The students (20No's) and faculties (06 No's) will be visiting the site on 14th Feb, 2022. (i.e., on Monday). The visit will be purely for academic purpose.

Kindly grant the permission for the same and do the needful.

Thanking You,

Yours Sincerely,

Coordinator

H.O.D HOD Civil Engineering

Civil Engineering S.J.P.N.T's HiT, Nidasoshi



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Dept. Civil. Engg.

Activity

Co-curricular

2021-22

Date: 09-02-2022

To,

The Principal,

Hirasugar Institute of Technology,

Nidasoshi.

Sub: Regarding Technical Visit for Civil Engineering students to Hidakal Dam. & Songam Sugar Factory Hickal.

Respected sir,

& Suger factory With reference to above cited subject, we have planned a technical visit to Hidakal Dam for 3rd sem students and it is tentatively scheduled on 14th, Feb 2022 as a part of curriculum.

The students can understand concept of Dams, its parts and working.

Hence, kindly grant the permission and transportation facility for the same.

Thanking You,

Yours sincerely,

Co-ordinator

Co-ordinator

Lothicle

Michaele

9449018302



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Hirasugar Institute of Technology, Nidasoshi.

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Mech.Engg.Dept **Industry Visit** Registration 2021-22 (OddSem)

Event: Industry Visit at Hidkal Dam Power House, Hidkal on 14th February 2022

Semester: III

R.No	STUDENT NAME	USN	Contact No.	Sinature	Remarks
1	AKASH RAJU PATIL	2HN20ME001	8970358852/62		
2	BASAVARAJ G KAMBAR	2HN20ME002	9945063960		
3	GONDHALI ATHARV SHANKAR	2HN20ME003	7498194119		
4	KAUSHIK SHIVAKALE	2HN20ME004	8762936555		
5	PRAMOD B AMMANAGI	2HN20ME005	8904703863	46	
6	SANGAMESH K SURAPPAGOL	2HN20ME006	9902826925	Ste	
7	YOGESH R DHANWADE	2HN20ME007	9663276591	0	
8	ABDULRAHIM B KAZI	Diploma	9964405656		
9	AKASH ASHOK BADIGER	Diploma	9591304521	Bo Budiye	3
10	AKASH P MADIHALLI 🗸	Diploma	6360192823	Alex	
11	AKSHAY MAHADEV CHABBI 🗸	Diploma	6363959820	Mal	
12	MALIKJAN MUJAWAR	Diploma	7676164379	M	
13	NITISH RAVINDRA BANI	Diploma	9901851203	3	-
14	RAHUL D MANGASULE	Diploma	9606379556		
15	RAHUL M NADESHWAR	Diploma	96206398438		
16	SACHIN S PUJERI	Diploma	7337825438	Supartr	
17	SHIVAPRABHU PATROT ✓	Diploma	7760183609	Supartr	4
18	SHIVARAJ B NEELAKANTH	Diploma	6361702459	`	
19	SHRINATH G SOOJI	Diploma	8310456559		
20	YASH RAMESH MANE	Diploma	8938251751		

Indusrial visit Coordinators

1. Dr. K.M.Akkoli

2. Dr. M.M.Shivashimpi

Shri. V.G. Badiger

Mechanical Engg. HIT, Nidasoshi

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Mech.Engg.Dept
Industrial Visit
Physical Fitness

Certificate 2021-22 (OddSem)

Physical Fitness Certificate

This is certified that, the following students are physical fit to attend the industry visit at Hidakal Dam Power House, Hidakal on 14th February 2022.

Semester: III

1 AKASH RAJU PATIL 2 BASAVARAJ G KAMBAR 3 GONDHALI ATHARV SHANKAR 4 KAUSHIK SHIVAKALE 5 PRAMOD B AMMANAGI 6 SANGAMESH K SURAPPAGOL 7 YOGESH R DHANWADE 8 ABDULRAHIM B KAZI 9 AKASH ASHOK BADIGER 10 AKASH P MADIHALLI 11 AKSHAY MAHADEV CHABBI 12 MALIKJAN MUJAWAR 13 NITISH RAVINDRA BANI 14 RAHUL D MANGASULE 15 RAHUL M NADESHWAR 16 SACHIN S PUJERI 17 SHIVAPRABHU PATROT 18 SHIVARAJ B NEELAKANTH DIPLOMA	R.No	STUDENT NAME	USN
3 GONDHALI ATHARV SHANKAR 2HN20ME003 4 KAUSHIK SHIVAKALE 2HN20ME004 5 PRAMOD B AMMANAGI 2HN20ME005 6 SANGAMESH K SURAPPAGOL 2HN20ME006 7 YOGESH R DHANWADE 2HN20ME007 8 ABDULRAHIM B KAZI Diploma 9 AKASH ASHOK BADIGER Diploma 10 AKASH P MADIHALLI Diploma 11 AKSHAY MAHADEV CHABBI Diploma 12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	1	AKASH RAJU PATIL	2HN20ME001
4 KAUSHIK SHIVAKALE 2HN20ME004 5 PRAMOD B AMMANAGI 2HN20ME005 6 SANGAMESH K SURAPPAGOL 2HN20ME006 7 YOGESH R DHANWADE 2HN20ME007 8 ABDULRAHIM B KAZI Diploma 9 AKASH ASHOK BADIGER Diploma 10 AKASH P MADIHALLI Diploma 11 AKSHAY MAHADEV CHABBI Diploma 12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	2	BASAVARAJ G KAMBAR	2HN20ME002
5 PRAMOD B AMMANAGI 2HN20ME005 6 SANGAMESH K SURAPPAGOL 2HN20ME006 7 YOGESH R DHANWADE 2HN20ME007 8 ABDULRAHIM B KAZI Diploma 9 AKASH ASHOK BADIGER Diploma 10 AKASH P MADIHALLI Diploma 11 AKSHAY MAHADEV CHABBI Diploma 12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	3	GONDHALI ATHARV SHANKAR	2HN20ME003
6 SANGAMESH K SURAPPAGOL 2HN20ME006 7 YOGESH R DHANWADE 2HN20ME007 8 ABDULRAHIM B KAZI Diploma 9 AKASH ASHOK BADIGER Diploma 10 AKASH P MADIHALLI Diploma 11 AKSHAY MAHADEV CHABBI Diploma 12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	4	KAUSHIK SHIVAKALE	2HN20ME004
7 YOGESH R DHANWADE 2HN20ME007 8 ABDULRAHIM B KAZI Diploma 9 AKASH ASHOK BADIGER Diploma 10 AKASH P MADIHALLI Diploma 11 AKSHAY MAHADEV CHABBI Diploma 12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	5	PRAMOD B AMMANAGI	2HN20ME005
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12 MALIKJAN MUJAWAR Diploma 13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	10	AKASH P MADIHALLI	Diploma
13 NITISH RAVINDRA BANI Diploma 14 RAHUL D MANGASULE Diploma 15 RAHUL M NADESHWAR Diploma 16 SACHIN S PUJERI Diploma 17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	11	AKSHAY MAHADEV CHABBI	Diploma
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17 SHIVAPRABHU PATROT Diploma 18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	15	RAHUL M NADESHWAR	Diploma
18 SHIVARAJ B NEELAKANTH Diploma 19 SHRINATH G SOOJI Diploma	16	SACHIN S PUJERI	Diploma
19 SHRINATH G SOOJI Diploma	17	SHIVAPRABHU PATROT	Diploma
D' I	18	SHIVARAJ B NEELAKANTH	Diploma
20 YASH RAMESH MANE Diploma	19	SHRINATH G SOOJI	Diploma
	20	YASH RAMESH MANE	Diploma

M. O.
S.J. P.N. Trust's Dispensary
Nidasoshi

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UNDERTAKING

ı	the	undersigned	Mr/Ms	studying	inSemester,
M	lechan	ical Engineerin	g Branch of Hirasugar Institute of Technology, Nidas	oshi, interest	ed to participate
in	indus	try Visit of Hid	dkal Dam Power House, Hidkal on 14/02/2022. I w	ill obey the	respective rules,
re	egulatio	ons of the Insti	tute and company and spot instructions given by th	ie concerned	authority during
th	ne visit	without fail. I l	nave undergone Medical checkup and fit to participa	te in Industry	Visit. If anything
ha	appens	wrong with m	e during the journey, I only responsible. The institute	or the facult	ty of the institute
is	not re	sponsible for a	ny kind of damage or accidents or uneven things ha	ppen with m	e. I will not claim
ar	ny kind	of damages fr	om institute. I have taken prior permission from my	parents to p	participate in the
ak	ove sa	aid event.			

	Name:	Akash . P. Madihalli	USN:	
-1	Mob. No:	6360192,823	Parent Mob. No:	9481558279
	Permanent Address:	MP: Nidayoshi 79: Hukkevil	Dist: Belaga	o?

14/02/2022 Students Signature with Date

UNDERTAKING

I the undersigned Mr/Ms. Shi vapaabhu. M. Patrot studying in. Stemester, Mechanical Engineering Branch of Hirasugar Institute of Technology, Nidasoshi, interested to participate in industry Visit of Hidkal Dam Power House, Hidkal on 14/02/2022. I will obey the respective rules, regulations of the Institute and company and spot instructions given by the concerned authority during the visit without fail. I have undergone Medical checkup and fit to participate in Industry Visit. If anything happens wrong with me during the journey, I only responsible. The institute or the faculty of the institute is not responsible for any kind of damage or accidents or uneven things happen with me. I will not claim any kind of damages from institute. I have taken prior permission from my parents to participate in the above said event.

Name:	Shivaprabhu. M. Patrot.	USN:	
Mob. No:	7760183609	Parent Mob. No:	7760183609
Permanent Address:	Ap: Hulkwerd 1903	Romodurg ?	Dt?-Belagavi

Students Signature with Date



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Industrial Visit
Attendane
2021-22 (OddSem)

Attendance Sheet

Event: Industry Visit at Hidkal Dam Power House, Hidkal on 14th February 2022

Semester: III

R.No	STUDENT NAME	USN	Contact No.	Sinature	Remarks
1	AKASH RAJU PATIL	2HN20ME001			Kemarks
2	BASAVARAJ G KAMBAR	2HN20ME002	9945063960		
3	GONDHALI ATHARV SHANKAR	2HN20ME003	7498194119		
4	KAUSHIK SHIVAKALE	2HN20ME004	8762936555		
5	PRAMOD'B AMMANAGI	2HN20ME005	8904703863	**	
6	SANGAMESH K SURAPPAGOL	2HN20ME006	9902826925	812	
7	YOGESH R DHANWADE	2HN20ME007	9663276591	<u>ga</u>	
8	ABDULRAHIM B KAZI	Diploma	9964405656	< ا	
9	AKASH ASHOK BADIGER	Diploma	9591304521	BB3cdige)	
10	AKASH P MADIHALLI	Diploma	6360192823	Alcert	
11	AKSHAY MAHADEV CHABBI	Diploma	6363959820	Modi	
12	MALIKJAN MUJAWAR	Diploma	7676164379	N. T.	
13	NITISH RAVINDRA BANI	Diploma	9901851203	ALL.	
14	RAHUL D MANGASULE	Diploma	9606379556		
15	RAHUL M NADESHWAR	Diploma	96206398438		
16	SACHIN S PUJERI	Diploma	7337825438	Alm	
17	SHIVAPRABHU PATROT	Diploma	7760183609	Alm Cupatrol	3
18	SHIVARAJ B NEELAKANTH	Diploma	6361702459	4	
19	SHRINATH G SOOJI	Diploma	8310456559		
20	YASH RAMESH MANE	Diploma	8938251751		·

Indusrial visit Coordinators

1. Dr. M.M.Shivashimpi

2. Shri. V.G. Badiger —

Assistant Executive Engineer
KNNL CBC Sub Dn. No. 2
Hidkal Dam.

) ೧೯೦೭ 2022 ಶ್ರೀ ಸಂಗಮ ಸಹಕಾರಿ ಸಕ್ಕರೆ ಕಾರಖಾನೆ ನಿಯಮಿತ

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Mech. Engg. Dept.

Academic

Industry Visit

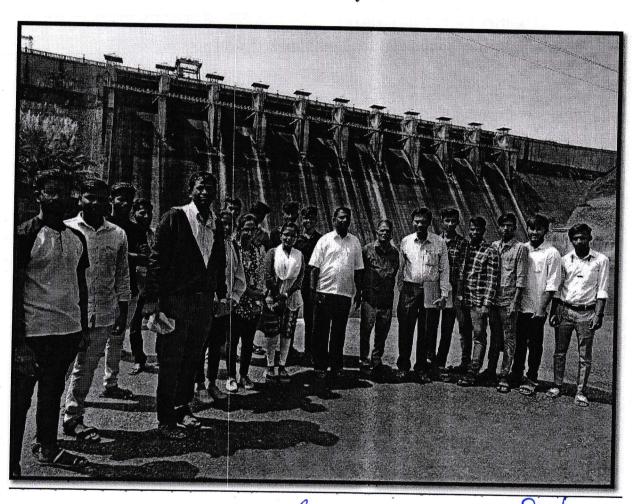
Report

AY:2021-22

Report on

Industry Visit to Hidkal Dam Power Plant, Hidkal

Date: 14th February 2022



Student Co-ordinators:

1. Mr. Yogesh Donawade

Staff Co-ordinators:

1. Dr. M.M.Shivashimpi

2. Shri. V.G. Badiger ·

Dr. S. N. Topannavar

Mechanical Engg. HIT, Nidasoshi



Hirasugar Institute of Technology, Nidasoshi

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Mech.Engg.Dept.

Academic

Industry Visit

Report

AY:2021-22

CONTENTS

SI. No	TOPIC	Page. No.
1	Introduction	1
2	Conclusions	2
3	Industry Visit Photo Gallery	3

(4)

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Mech.Engg.Dept.

Academic

Industry Visit

Report

AY:2021-22

1. Introduction

Raja Lakhamagouda dam, also known as Hidkal dam, is a dam constructed across the Ghataprabha River in the Krishna River basin. It is situated at Hidkal village in Hukkeri Taluk of Belagavi district in North Karnataka, India. It is located at a distance of 55 kms from Belagavi.

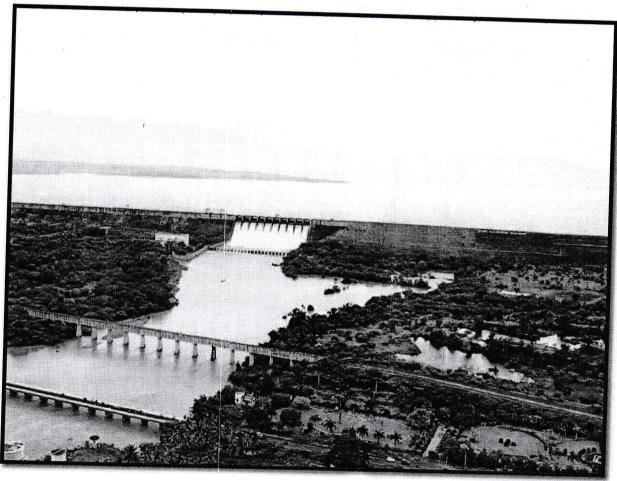


Figure 1.1The view of Hidkal Dam during rainy season

The dam with the height of 62. 48 metres and 10 Vertical Crest Gates, impounds a large reservoir with a gross surface area of 63. 38 Square kilometres, and storage capacity of 51. 16 Tmcft. It is an earthen and masonry dam which caters to the Irrigation needs for over 8,20,000 acres, and Hydel power generation. It is constructed as a part of the Ghataprabha Irrigation project which was completed in three phases and finished in 2009. The dam is named after Raja Lakhamagouda Sardesai, philanthropist and Zamindar of Vantamuri. The approximate expenditure of the Hidkal dam project was Rs. 9. 47 crores. This dam caters for the irrigation of approximately 13400 hectors of agriculture lands in the Hukkeri taluk of Belgaum. This dam is popularly known as Raja Lakhamgowda Dam. Numerous fossils were

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excavated from nearby areas of the dam site which makes it a place of interest for the archeologists. It is also a popular tourists place for the tourists visiting Belgaum. Nearby attractions includes Belgaum Fort ,Kamala Basti, Kapileshwara Temple ,Rakaskop, Varapoha Falls, Ramakrishna Ashram, Kittur Fort and Palace. The dam is not only an enthralling picnic spot but also attracts many archaeologists who frequents the place to research about fossils which were revealed recently nearby the Hidkal Dam.

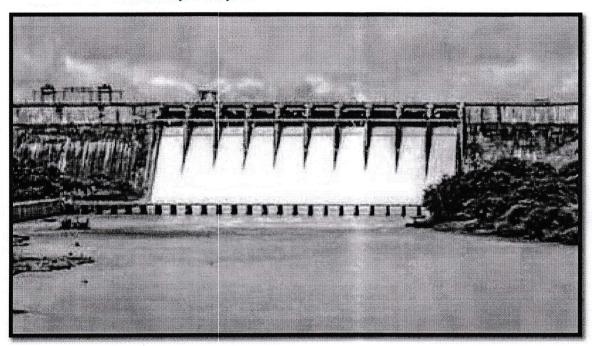


Figure 1.2 The Water flow from dam through radial gate during rainy season

This dam is home to a number of migratory birds like the Demoiselle cranes and Bar-headed geese that fly here every year, making it a roosting site. The area around the dam is now being used to cultivate sugarcane instead of the traditional paddy and wheat crops, disturbing the feeding habits of these birds. The dam is a place of profound natural beauty, archaeological interest and a nature spot for bird watching and is well worth a visit.

Best time to visit the Hidkal Dam is in the month of October-March as weather remains pleasant here. Visitors can visit the day during the day, usually with timings 8:00 AM - 7:00 PM. Entry fee is INR 5 per person.

2. Conclusions

Hydropower plants are a vital energy source to the world. Water is an efficient and reliable fuel. The use, creation, and expansion of power plants should continue being pursued. Understand the working principles of hydraulic turbine Understand energy conversion principle from hydraulic energy to mechanical output shaft energy.



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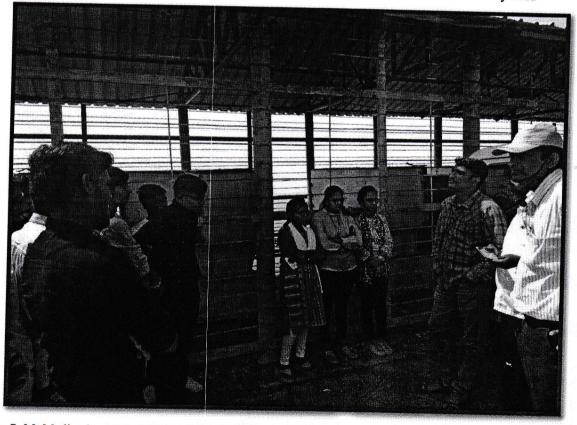
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3. Industry Visit Photo Gallery



The view of Radial Gate Valve used in HIdakal Dam, Hidkal visited on 14th February 2022



Mr. S. M. Madiwale, AEE, Civil Engineer, HIdakal Dam, Hidkal is delivering about power plant house during industry visit held on 14th February 2022.



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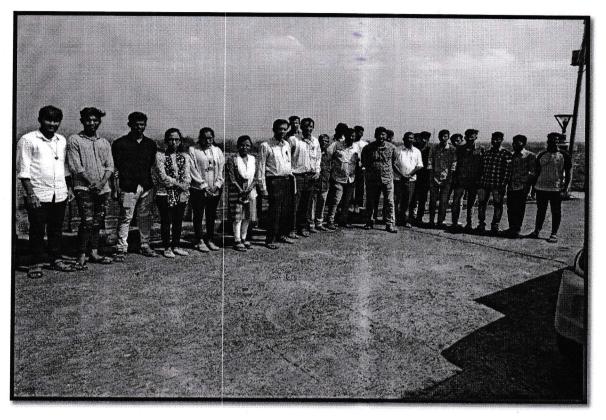
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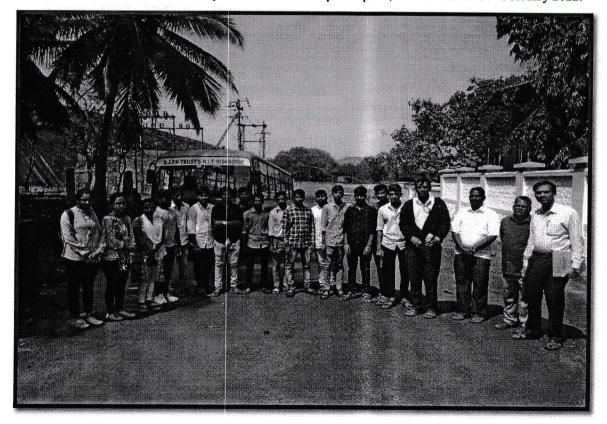
Academic

Industry Visit Report

AY:2021-22



Staff and students are attended industry visit at Hidkal dam power plant, Hidkal held on 14th February 2022.



Staff and students are attended industry visit at Hidkal dam power plant, Hidkal held on 14th February 2022.



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Activities
Feedback
2021-22 (🗢 ຝ)

FEEDBACK

Title o	f the Activity:	Industrial V	isit to "Hid	kal Dam Power			
House,	House, Hidkal"						
Gap	Mapped POs	POs Weightage	Mapped PSOs	PSOs Weightage			
No.: 14	1,2,3,4,6,7,8,10, 11 & 12	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,	1,2 &3	3,3 &3			
Date/Du	Date/Duration: 14-02-2022 Place: Hidkal						

Note: Solicit your response in numeric (10 points:Excellent-0 point: Not Good)

S.No.	7 Parameter	Numeric Response (0-10)
1	Concept realization and skills observed during industry visit.	10
2	Inspired to build and lead the better career after the graduation.	10
3	Rate the industry in the professional learning prospective.	10
4	Your development/+ve change during the industry visit.	10
5	Overall motivation and inspiration received during the industry visit.	10
e e	Total points	50

Write your comments on activity/event organization (All Arrangements such as Hospitality, Logistics, and Hall etc.):

Signature of the Participant

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Mech. Engg. Dept
Activities
Feedback
2021-22 (Odd/)

FEEDBACK

Title o	f the Activity:	: Industrial V	isit to "Hidk	al Dam Power		
House, Hidkal"						
Gap	Mapped POs	POs Weightage	Mapped PSOs	PSOs Weightage		
No.:14	1,2,3,4,6,7,8,10,1 1 & 12	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,	1,2 &3	3,3 &3		
Date/Du	ration: 14-02-2022		Venue: Hidkal			

Note: Solicit your response in numeric (10 points: Excellent-0 point: Not Good)

S.No.	Parameter	Numeric Response (0-10)	
a. "1	Concept realization and skills observed during industry visit.	10	
2	Inspired to build and lead the better career after the graduation.	9	
3	Rate the industry in the professional learning prospective.	10	
4	Your development/+ve change during the industry visit.	10	
5	Overall motivation and inspiration received during the industry visit.	10	
	Total points	49	

Write your comments on activity/event organization (All Arrangements such as Hospitality, Logistics, and Hall etc.):

Signature of the Participant

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Activities
Impact Analysis on Feedback
AY:2021-22

Impact Analysis and PO & PSO Attainment

Activity Name:	Industrial visit to Hidkal Dam Power House, Hidkal	No. of Respondents (N):	10
Grand Total Points are given by all respondents (T):	498	Impact Coefficient (IC=0-1):	Here, $IC=T/(N*50) = 498/(10*50) = 0.996$

Mapped PO/s	Weightage Assigned (1/2/3)	PO Attained/Activity Contribution to the respective PO	Mapped PSO/s	Weightage Assigned (1/2/3)	PO Attained/Activity Contribution to the respective PSO
		(IC*Weightage Assigned)			(IC*Weightage Assigned)
PO1	3	2.988	PSO1	3	2.988
PO2	3	2.988	PSO2	3	2.988
PO3	ŧ 3	2.988	PSO3	3	2.988
PO4	3	2.988			
PO5	3	2.988			
PO6	3	2.988			
PO7	3	2.988			-
PO8	3	2.988			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PO9	3	2.988			
PO10	3	2.988			
PO11	3	2.988			
PO12	3	2.988			

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SJPN Trust's

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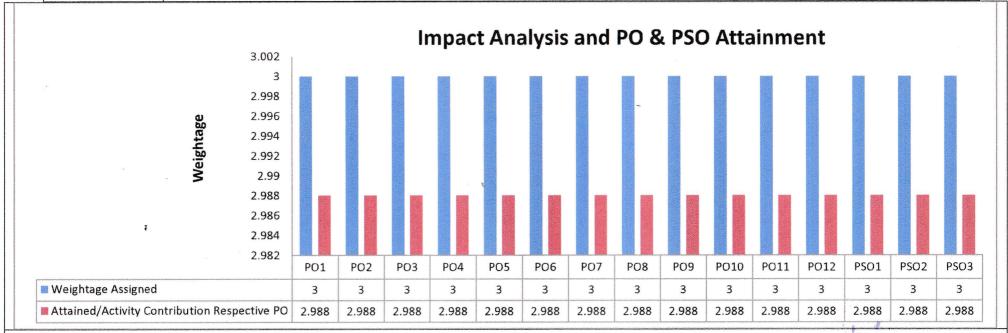
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Activities

Impact Analysis on Feedback

AY:2021-22



Justification:

1. Justification for Mapping of POs & PSOs

	Mapped POs/ PSOs	Weightage	Justification
	PO1	3	This activity substantially addresses hydropower engineering a field of engineering that has to do with
-			harnessing the energy of flowing water and turning that energy into electricity.
	PO2		This activity substantially enlightens revolutionary concepts for hydroelectric energy storage and the
		3	analysis focusing on underwater hydro storage and hydropower's hybridization with fast energy storage
			systems.
	PO3 3 T		This activity substantially enlightens advances in the electro-mechanical components and generator
		3	design with their potential role to adapt hydropower to the current operating conditions.
	PO4 2		This activity is substantially about emerging and advanced technologies to mitigate flow instabilities as
		3	well as emerging magneto-rheological control techniques. Recent research findings on flow instabilities,

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Activities

Impact Analysis on Feedback

AY:2021-22

		are scielly concerning flyid atmeture interaction and transient appreting conditions
		especially concerning fluid-structure interaction and transient operating conditions.
PO5	3	This activity substantially addresses modern hydraulic turbines to meet new challenges associated with
		the variable demand on the energy market as well as limited energy storage capabilities, resulting in great
		flexibility required in operation over an extended range of regimes far from the turbines' best efficiency
		point.
		This activity addresses briefly dams and reservoirs that can reduce river flows, raise the water
PO6	3	temperature, degrade water quality and cause sediment to build up. This has negative impacts on fish,
		birds, and other wildlife.
DO7	3	This activity addresses briefly climate-friendly energy sources, generating power without producing air
PO/		pollution or toxic by-products.
DOS	3	This activity addresses the significant potential for novel approaches in the planning, design, and
PO8		operation of a hydropower station.
DO0 1	2	This activity addresses Project the potential size of the hydropower workforce under different growth
PO9	3	scenarios and where skill set gaps exist relative to today's workforce.
DO10	3	This activity enlightens additional training programs are needed to meet anticipated hydropower
PO10		workforce needs in 2030 and develop recommendations to fill the gaps
		This activity provides the hydropower program is the abundant low-cost energy the projects contribute to
PO11	3	electric power grids. Because hydroelectric power plants burn no fuel, operating costs are low and are
		immune to rising fossil fuel prices.
DO12	3	This activity enlightens innovation and aims at increasing hydropower's efficiency, flexibility of
PO12		operation, and lifetime and reducing the costs of installation, operation, and maintenance.
DGO1	3	This activity provides exposure to many of the key skills that mechanical engineers learn and develop a
PSOI		wide range of applications for hydroelectric generation.
		This activity addresses knowledge of design procedure and analyzes hydro mechanical components
PSO2	3	design such as intake gate, Penstock size, and thickness, manhole, expansion joints, draft tube, turbine
		blade design, etc.
DCO2	3	This activity enlightens us about hydropower facilities can have large environmental impacts by changing
1303		the environment and affecting land use, homes, and natural habitats in the dam area.
	PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01	PO6 3 PO7 3 PO8 3 PO9 3 PO10 3 PO11 3 PO12 3 PS01 3 PS02 3

2. The activity mapped with PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, and PO11 & PO12 was found satisfactory with an attainment level of 2.988 each against the Mapped values during the impact analysis.



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Activities

Impact Analysis on Feedback

AY:2021-22

3. The activity mapped with PSO1, PSO2 & PSO3 was found satisfactory with an attainment level of 2.988 each against the Mapped value during the impact analysis.

Conclusion: The activity is organized to fulfill the program outcomes engineering knowledge, problem analysis, design/development solution, conduct investigations of complex problems, modern tool usage, engineering and society, environment and sustainability, ethics, individual & teamwork, communication, project management& finance and lifelong learning and PSO1, PSO2 & PSO3 has mitigated the gap identified satisfactorily to some extent.

Future Suggestions: Hydropower plants are a vital energy source for the world. Water is an efficient and reliable fuel. The use, creation, and expansion of power plants should continue to be pursued.

Mr. VivekånandKambi AIMSS Secretary Prof.M.M.Shivashimpi&Prof.D.N.Inamdar AIMSS-Coordinator/s

Dr.S.N.Topannavar

HOD Mechanical Engg. HIT, Nidasoshi