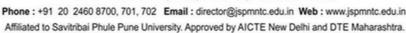


S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041



PUN Code: CEGP019070 AISHE Code: C-45874



Prof.(Dr.)T. J.Sawant

D.E.E., B.E. (Electrical), Ph.D., MISTE Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

6.3: Faculty Empowerment Strategies

DTE Code: 6755

6.3.2.1: Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years.

HEI Input:

2022-23	2021-22	2020-21	2019-20	2018-19
27	33	12	49	39

DVV Suggested Input:

2022-23	2021-22	2020-21	2019-20	2018-19
06	16	01	08	32

DVV Suggested Input is Accepted.

DVV Suggested Supporting documents:

• Documents of Financial Support Certified by the Principal

JSPM Narhe Technical Campus Narhe, Pune - 411041





S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041



DTE Code: 6755 PUN Code: CEGP019070 AISHE Code: C-45874



Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical), Ph.D., MISTE
Founder - Secretary

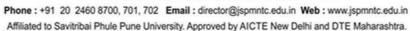
Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

INDEX

S.No	Year	Name of Teacher	Name of Conference/ Workshop attendedfor which Financial Support provided	Name of the Professional Body for which Membership fee is provided	Digital Pg.No.
1.	2022-23	Dr.S.B.Khaple	FDP On Research Methodology	NA	7
2.	2022-23	Ms. P.R.Balage	FDP On Machine Learning with PYTHON	NA	10
3.	2022-23	Dr M P Hajare	Conference A Review On OpportunisticRouting Systems For Internet Of Underwater Things	NA	13
4.	2022-23	Mrs. S P Kurlekar	International Conference On 6G AndWireless Technology	NA	16
5.	2022-23	Dr.A.B.Ikhe	International Conference On Recent Development In Engineering, Science, Humanities And Management (ESHM-2023) By Govt. Engineering College Bharatpur Rajastan	NA	19
6.	2022-23	Dr.M.A.Kumb halkar	Conference On Design And OptimizationOf The Braket Connected With ACTUATOR And VALVE	NA	22
7.	2021-22	Mr. A. S. Patil	Orientation/Refresher Program On RecentAdvanced Material Science & Engineering	NA	25
8.	2021-22	Mr.P. B.Jarande	Faculty Development Program On 'Amazon Web Services'	NA	28
9.	2021-22	Mr.Bhushan Manmode	One Week Short Term Training Program onConservation of Energy, Water and Enironment –	NA	31
10.	2021-22	Dr.M.A.Kumb halkar	One Week STTP on Experimental Methodsin Engineering	NA	34



S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041



PUN Code: CEGP019070 AISHE Code: C-45874



Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical), Ph.D., MISTE
Founder - Secretary

DTE Code: 6755

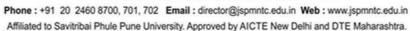
Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

11.	2021-22	Mr.A.A.Kamble	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	37
12.	2021-22	Mr.S.B.Hankar e	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	40
13.	2021-22	MR.S.M.Patil	One Week Short Term Training Program onConservation of Energy, Water and Environment –	NA	43
14.	2021-22	Mr.J.M.Jadhav	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	46
15.	2021-22	Mr.P.B.Maitre ya	One Week STTP on Experimental Methods in Engineering	NA	49
16.	2021-22	Mr.B.B Aher	One Week STTP on Experimental Methods in Engineering	NA	52
17.	2021-22	Mr.Ganesh Bhosle	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	55
18.	2021-22	Mr.Atul Patil	One Week STTP on Experimental Methods in Engineering	NA	58
19.	2021-22	Mr.G.V.Raiph ale	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	61
20.	2021-22	Mr.P.U.Gaikw ad	One Week Short Term Training Program on Conservation of Energy, Water and Environment –	NA	64
21.	2021-22	Ms.M.S.Deokar	One Week Short Term Training Program onConservation of Energy, Water and Environment –	NA	67
22.	2021-22	Mr.V.J.Raje	One Week Short Term Training Program onConservation of Energy, Water and Environment –	NA	70





S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041





DTE Code: 6755

PUN Code: CEGP019070 AISHE Code: C-45874

Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical), Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

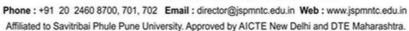
23.	2020-21	Dr.M.A.Kumb halkar	International Conference On Advances InMechanical Engineering And Nanotechnology (ICAMEN 2021)	NA NA	73
24.	2019-20	Mr. D. D. Mohite	Conference On Anarobic BiologicalTreatment Of Distillary West Water	IOP	76
25.	2019-20	Mr.V.V.Muthe kar	Conference On Application On Light Interference Technique For Locating Ground Water Weins	IOP	79
26.	2019-20	Mr.S.S.Bansode	Conference On Experimental Analysis OfGrey Water Treatment In RURAL Areas Using Nano Metaloxide	The Insitute of Engineers	82
27.	2019-20	Dr.S.B.Khaple	NA	The Insitute of Engineers	85
28.	2019-20	Dr,R,K.Lad	Conference Paper On Payment PerformanceIndex For Rating Flexible Payments	NA	88
29.	2019-20	Dr.S.S.Solanki	5th International Conference On InnovationIn IT And Management	NA	91
30.	2019-20	Mr K.S.Rambhad	International Conference On Advanced InMechanical And Electrical Engineering ICAMEE-19	NA	94
31.	2019-20	Dr.M.A.Kumb halkar	International Conference On Smart Technologies For Energy, Environment and Sustainable Development (ICSTEEST-20) Performance Investigation Of Desiccant Wheels For Air Dehumidification	NA	97
32.	2018-19	DR. S.B. Khpale	NA	ISTE	100
33.	2018-19	Dr.R.K.Lad	NA	ISTE	103
34.	2018-19	Ms.Namrata Jajoo	NA	ISTE	105
35.	2018-19	Mr.M.D.Anap	NA	ISTE	107
36.	2018-19	Dr.S.A.Choud hari	NA	ISTE	110
37.	2018-19	Dr.R. H Kulkarni	NA (OCHA)/COL	ISTE	112

Narhe

4



S. No. 12/2/2 and 14/9, Narhe, Tal : Haveli, Dist.: Pune - 411041



PUN Code: CEGP019070 AISHE Code: C-45874



Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical), Ph.D., MISTE
Founder - Secretary

DTE Code: 6755

Prof.(Dr.)M.M.Sardeshmukh B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.) DIRECTOR

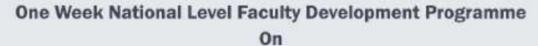
38.	2018-19	Mr.Vilas Gaikwad	NA	ISTE	114
39.	2018-19	Ms. J.S. Kharat	NA	ISTE	116
40.	2018-19	Ms.D. D.Pradhan	PHOTONICS-2018,IIT Delhi	NA	119
41.	2018-19	Ms.N.R.Kada m	NA	ISTE	122
42.	2018-19	Ms K.P.Wagh	NA	ISTE	125
43.	2018-19	Ms.V.S.Patil	NA	ISTE	128
44.	2018-19	Mr.S. S. Ambare	NA	ISTE	131
45.	2018-19	Mr.N. M. Gaikwad	NA	ISTE	134
46.	2018-19	Dr.S. D. Kore	NA	ISTE	137
47.	2018-19	Mr.M.A.Kumb halkar	International Conference And Expo On Emerging Trends In Mechanical Engineering (e-TIME 2019) Dynamic Analysis And Experimental Investigation For Vibration ResponseOf SuspensionSystem Of Indian Railway Vehicle	NA	140
			NA	ISTE	143
48.	2018-19	Mr.P B Maitrey	NA	ISTE	146
49.	2018-19	Mr.SB Pawar	FDP On Design Of Solar PhotovoltaicSystem		149
50.	2018-19	Mr.S P Kadu	NA	ISTE	152
51.	2018-19	Dr. J. S. Gawande	NA	ISTE	155
52.	2018-19	Dr. S. B. Satpal	FDP On Design Of Solar PhotovoltaicSystem	NA	158
53.	2018-19	Mr. G. S. Dhumal	NA	ISTE	161
54.	2018-19	Mr. S. S. Kale	NA	ISTE	164
55.	2018-19	Mr. P. A. Dhaware	NA	ISTE	167



	-				
56	2018-19	Mrs. M. S. Deokar	NA	ISTE	170
57	2018-19	Mr. G. S. Sawdadkar	NA	ISTE	173
58	2018-19	Mr.K.S.Rambh ad	FDP On Design Of Solar Photovoltaic System	NA	176
59	2018-19	Mrs. P. M. Hombal	NA	ISTE	179
60	2018-19	Mrs. A. D. Halwe	FDP On Design Of Solar Photovoltaic System	NA	182
61	2018-19	Dr. J. S. Gawande (Asso. Membership)	NA	IEI (Partial Funds)	185
62	2018-19	Mrs. R. A. Yadav (Asso. Membership)	NA	IEI (Partial Funds)	188
63	2018-19	Mr. B. B. Aher (Asso. Membership)	NA	IEI (Partial Funds)	191



Director
JSPM Narhe Technical Campus
Narhe, Pune - 411041



RESEARCH METHODOLOGY

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

PADM. DR. V. B. KOLTE COLLEGE OF ENGINEERING, MALKAPUR, DIST-BULDANA-443101 (M.S.)

Email: coemalkapur@rediffmail.com, Website: www.coemalkapur.ac.in, Ph. (07267) 295037

Approved by AICTE-New Delhi, Govt. of Maharashtra, DTE-Mumbai & Affiliated to SGBAU, Amravati

Accredited by NAAC (UG) & NBA (Diploma)



In Association with

IQAC, Sant Gadge Baba Amravati University, Amravati Institution of Engineers (IEI), Aurangabad Local Chapter Indian Society for Technical Education IQAC, Dr. V. B. Kolte College of Engineering, Malkapur





CERTIFICATE

This Certificate is Proudly Presented to

Dr. Shivakumar B Khaple

of J.S.P.M., Narhe Campus, Narhe

For participating in National Level One Week Faculty Development Programme on "Research Methodology", organized by the Department of Mechanical Engineering, Padm. Dr. V. B. Kolte College of Engineering, Malkapur in association with IQAC Cell, SGBAU, Amravati, ISTE Faculty Chapter of VBKCOE-Malkapur, IE(I) Aurangabad Local Chapter & IQAC-VBKCOE, Malkapur.

From 02nd May to 6th May 2023

Certificate Code: VBKCOEFDP23092

Prof. P. G. Firke
Program Co-ordinator

Prof. S. R. Shekokar Head of Dept.

Dr. A. W. Kharche Principal

Date: 09/05/2023

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Dr. S.B. Khaple Working in Civil D. Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from

Pune

to & fro

Buldana

for attend Workshop/FDP/Conference one week national level FDP onRM.

from Dt. 01 05 23to 06 05 23. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500/-
2	Travelling Allowance	24001-
3	Extra Expense	2300 1-
	Total	6200/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

ISPM Narhe Technical Campuc Narhe, Pune - 411041

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S

Name of the Institute: JSPM North Technical Campus

campus Name: North Technical Campus

PAYMENT VOUCHER

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Bank .

Cheque No.

Accountant

Branch _

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52 co/-

ISPM Nathe Technical Computs Principal/Director

> Receiver's Signature Tonchopare

NITTTRK/ICT/2022-23/5357



(Established by the Ministry of Education Government of India)

Certificate of Participation

Priyanka Raju Balage

has completed One Week

Faculty Development Programme on

Machine Learning with PYTHON

organised by this Institute

from 13th February to 17th February, 2023 successfully.

Programme Coordinator(s)

Dr. Urmila Kar
FIC, Academic Affairs

Prof. Debi Prasad Mishra

Director

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Priyanka R. Balage Working in Computer Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from

pune to & fro Kolkata. for attend Workshop/FDP/Conference One week FDP on Machine Learning with Python.

from Dt. 12/04280 17/02/23. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	15001-
2	Travelling Allowance	3500/-
3	Extra Expense	8.001—
	Total	5800 /-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Soutroned and forwarded to

ISPM Name Technical Campus Narhe, Pune - 411041



Campus Name : Mash Name of the Institute: JSPM Nash Jechnical Compus

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Pay Mr. / Mrs. _

and debit on __

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Received the sum of

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Principal/Director
Director
Campus

The Charles

Accountant

Cheque No.

Branch _

Receiver's Signature



Date:- 17/05/23

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

M.P. Hajase I am

Working in E &TC

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro 11 05 2023

round-trip travel from 8/05/23

for attend Workshop/FDP/Conference International Conference on Anterior apportunity winting yellow for ICT, from Dt. 9/05/10 10/05/28. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1,0001-
2	Travelling Allowance	3,000/
3	Extra Expense	2,0001-
	Total	6,000

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sancefroned and forwarded to accomp

JSPM Narhe Technical Campus

Narhe, Pune - 411041



Campus Name:	Name of the Institute:
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PAYMENT VOUCHER

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Receiver's Signature

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40th GISFI STANDARDIZATION SERIES MEETING

Jointly with

International Conference on 6G and Wireless Network Technologies

CERTIFICATE

This is to certify that

Dr./Mr./Mrs./Ms. Supriya Kurlekar

of JSPM Narhe Technical Campus, Pune

Has presented a paper titled "Feature Extraction Using CNN for Image Captioning"

in the "40th GISFI STANDARDIZATION SERIES MEETING Jointly with International Conference on 6G and Wireless Network Technologies ", organized by the Department of Electronics and Telecommunication Engineering, Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur held during 3rd - 5th April 2023.

Dr. N.B. Sambre

Co-ordinator KITCOEK Dr. M.S. Chavan

Program chair KITCOEK Dr. Mohan Vanrotti

Director KITCOEK Dr. V. V. Karjinni

Executive Director KITCOEK

Date: 10/04/2023

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mrs. S. P. Kuelekae Working in E&TC

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro 06 | 4 | 23 round-trip travel from 2 4 23

for attend Workshop/FDP/Conference International Conference on 6 G

from Dt. 3/4/23 to 5/4/23 . Please find the Attached for total expense.

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1,200 5,2001 -

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanctrared and forwarded to account

JSPM Narhe Technical Campus Narhe, Pune - 411041



Name of the Institute: JSPN NTC

campus Name: JSPM, Narke technical campus

PAYMENT VOUCHER

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No	8. 5200
Date: 15 / 4 /2023	

Accountant

ISPN Narha Campus

Receiver's Signature

Sold

Narhe, Pune - 411041

Cheque No.



2nd International Conference on Recent Development in Engineering, Sciences, Humanities and Management (ESHM-2023)



Certificate

This is to certify that Atul Ikhe

has presented and published a paper titled

Comparison of Demand Side Management using Electric Spring and STATCOM

during International Conference ESHM -2023 with ISBN: 978-93-91535-43-8

held on 18th March 2023

Organized By: Government Engineering College Bharatpur, Rajasthan

Institute for Social Reforms and Higher Education Charitable Trust, Uttar Pradesh (India)

(Regd. with Govt of India NITI Aayog NGO Darpan, Govt. of UP, MHRD India)

te for Social Reform

BH484

in collaboration with

Conference World

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Atu IKhe I am

Working in FE

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from 16/04/23 to & fro 20/04/23

for attend Workshop/FDP/Conference International Conference on ESHM

from Dt. 18/4/23to . -

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1,500
2	Travelling Allowance	3,0001-
3	Extra Expense	1,1001-
-	Total	5,6001-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanefrened and forwarded to account.

JSPM Narhe Technical Campus

Narhe, Pune - 411041



Campus Name:	Name of the Institute: TSPM NTC
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PAYMENT VOUCHER

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Receiver's Signature

Accountant

Cheque No.

Branch _







If You Aim High, We Provide The Means



CERTIFICATEOF PARTICIPATION

This is to certify that

Dr. Manoj A. Kumbhalkar

from

JSPM Narhe Technical Campus, Pune

has presented a research paper titled

Design and Optimization of The Bracket Connected with Actuator and Valve

in "Technologia: International Conference on Recent Advances in Mechanical Engineering and Nanomaterials – ICRAMEN 2023" held on 12th & 13th May 2023, organized by Christian College of Engineering & Technology, Bhilai in association with Research Association of Masters of Engineering, Pune.

Dr R H Gajghat Convener, ICRAMEN 2023 Dr Dipali Soren Principal, CCET, Bhilai

Fr Dr P S Varghese Executive Vice Chairman, CCET, Bhilai To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am. Dr. M. A Kumbhar Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from Pyne to & fro Bhilai

to attend Workshop/FDP/Conference on Dengn & contraction of the Braket

from Dt. 11/5/27 to 13/5/23. Please find the Attached for total expense.

S.no	Description	Amount	
1	Registration Fees	2000	
2	Travelling Allowance	3 000	

2	Travelling Allowance)	
3	Accommodation		1000	
4	Local conveyance		300	-7
	Γ	otal	63 W	1_

Jornal John

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

JSPM Narhe Technical Campus Narhe, Pune - 411041



Name of the Institute: ISPM Northe	Technical Compas.
Campus Name : Norhe	/
PAYMENT VOUCHER	
Rs. 6300/-	Date 25 / 5 /20 2 3
Pay Mr. Mrs. M.A Kumbhalka	140
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being Conference on Duryn Rantmucha	Actuator & valve
and debit on account.	Received the sum of
Paid by cash / cheque on	Rs 6300/
Bank	•
Branch	
Cheque No Date :	
Accountant Principal/Director Director	Receiver's Signature

JSPM Narhe Technical Campus

Narhe, Pune - 411041

124



Certificate



This is to certify that MRS. ALAKNANDA SOMANATH PATIL has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on "Recent Advances in Materials Science and Engineering" held during 18.01.2022 to 24.01.2022 organized by SVERI's College of Engineering, Pandharpur, Maharashtra.

Director (FDC)

AICTE, ND

Executive Secretary

Program Coordinator SVERI's CE, Pandharpur Principal

Date: 25/01/2022

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam A.S. Patil

Working in ECTC

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from 17/01/22 to & fro 28/01/22

for attend Workshop/FDP/Conference, on Recent Trends. Advances in Mat. Science in Pandharpur. from Dt. 18/1/22 24/1/22. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1,0001 -
2	Travelling Allowance	1,0001-
3	Extra Expense	3,500
	Total	5,5001-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Sanctioned south

ISPM Narhe Technical Campus Narhe, Pune - 411041



Name of the Institute: JSPM, HTC

Campus Name: Nathe technical ca	white	•
PAYMENT VOUCHER Rs. 5500 Pay Mr. / Mrs. Dr. A. S. Patil	Date: 30/ J /2022	
being FDP Accend Advances in Material and debit on account.	Science & Figg · (Pargharpa Received the sum of	ur
Paid by cash / cheque on	Rs. 5500	
Accountant Principal/Director JSPM Narhe Technical Campus Narhe, Pune - 411041	Receiver's Signature	









CERTIFICATE

OF PARTICIPATION

PROUDLY PRESENTED TO

Pravin Baburao Jarande

for successful completion of One week Faculty Development Program On "Amazon Web Services"

During the period of 22nd August 2022 to 27th August 2022

Organized by Department of Computer Engineering, Dhole Patil College of Engineering, Wagholi, Pune

in collaboration with BRAINOVISION SOLUTIONS INDIA PVT.LTD & ALL INDIA COUNCIL FOR TECHNICAL EDUCATION - AICTE



Prof. Rashmi Tundalwar Dr. Arati Dandavate Co-ordinator

HOD



To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

RespectedSir.

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my wagholi round-trip travel from to &fro

To attend Workshop/FDP/Conference FDP on Amazon web Selvices.

from Dt. to 22 08 22 Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	15001-
2	Travelling Allowance	500
3	Accommodation/other	•
	Total	2,000 -

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Director

Semetrard and ded

/SPM Narhe Technical Campus Narhe, Pune - 411041



Campus Name : Ma	Name of the Institute :
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Kavikulguru Institute of Technology and Science

(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program

on

Conservation of Energy, Water and Environment – Present and Future

CERTIFICATE

This is to certify that Dr./Mr./Ms. BHUSHAN K.MANMODE

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Principal

Date: 15/02/2002

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. Bheeston Manmarotking in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

to & fro Nagpor.

for attend Workshop/FDP/Conference one week of on conservation of from Dt. 66 of vitor (03/2) Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500
2	Travelling Allowance	24,00
3	Extra Expense	1300
3	Total	5200

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Senetrard and formerded to

JSPM Narhe Technical Campus Marhe, Pune - 411041

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Name of the Institute: JSpry , N. C

GOVERNMENT COLLEGE OF ENGINEERING, KARAD



CERTIFICATE

GECK/Mech_sttp_EME/701-53 dated 19.07.2021

This is to certify that Mr. / Ms. / Prof. / Pr Manoj A. Kumbhalkar (Assistant Professor, JSPM NARHE, PUNE)

Has participated & successfully completed One Week Short Term Training Programme (Online) on

"Experimental Methods in Engineering"

Sponsored by

Technical Education Quality Improvement Programme (TEQIP)

Organized by

Department of Mechanical Engineering

Govt. College of Engineering Karad, Maharashtra

During 5th to 9th July, 2021

Prof.K.S.Gharge Co-ordinator Prof.R.K.Shrivastava Co-ordinator & Head Mech. Engineering

3 hirostave

Prof.A.T.Pise Principal

Date: 12/07/2021

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. M. A. Kumbhalkoworking in Mechanical

Writing this letter to request reimbursement for the applicable expenses incurred due to my

pone to & fro Karod round-trip travel from

for attend Workshop/FDP/Conference One week STTP on experimental methods in Engineering

from Dtoso7 2 to oglo7 2 . Please find the Attached for total expense.

Sanchin Pl. process for vens.

S.no	Description	Amount
1	Registration Fees	1200 (-
2	Travelling Allowance	800 /-
3	Extra Expense	3100 H
	Total	5100/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

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Name of the Institute: DSPM Nark Technical Campus Campus Name: NTC

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(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program

Conservation of Energy, Water and Environment – Present and Future CERTIFICATE

This is to certify that Dr./Mr./Ms. ASHWIN ANANDRAO KAMBLE

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Ashavin Kamble Working in Mechanical

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from Pune to & fro Nagpur (M.S)
for attend Workshop/FDP/Conference 1 week STTP on Seses vation of Energy
water & Envt. Present- & fulline.

from Dt. 06/3/2011/03/22. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1,5001
2	Travelling Allowance	2,4001-
3	Extra Expense	13001-
	Total	5,2001-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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Director JSPM Narhe Technical Campus Narhe, Pune - 411041

Applicant Signature

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

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JSPM Name Technical Campus Accountant

Marka, Dung - 411041

Name of the Institute: JSPM, NTC

campus Name: Narhe technical campus.



(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future

CERTIFICATE

This is to certify that Dr./Mr./Ms. SANDEEP BABASAHEB HANKARE

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar Coordinator Dr. S. K. Bhele Coordinator

tor HOD, MED & IQAC Coordinator

Dr. Y. M. Jibhakate

Dr. Avinash N. Shrikhande Principal

Date: 15/05/2022

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Sunday B. Hookoveworking in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

for attend Workshop/FDP/Conference on e wedl stop on conservation of tree from Dt. 06/03/20 11/03/22. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 /
2	Travelling Allowance	2400/-
3	Extra Expense	1300 /
	Total	5200/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

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Sometroved forwarded to account

JSPM Narha Technical Campus Narhe, Piere - 411041

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JSPM Narhe Technical Campus Narhe, Pune - 411041

Receiver's Signature



(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future CERTIFICATE

This is to certify that Dr./Mr./Ms. Prof. S. M. Mangore Patil

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2022

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Mr. s.m. poull

Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

for attend Workshop/FDP/Conference One week STTP on Conservation of Energy from Dt. 06/63/200 11/03/22 Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 1-
2	Travelling Allowance	2400 L
3	Extra Expense	1300-1-
	Total	5200/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Synctroned and formerded to accounts

ISPM Narhe Technical Campus

SMPatil Applicant Signature

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Narhe Teehnical Campy Samous Name: Note: 15 (

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Narhe, Pune - 411041	npus



(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future CERTIFICATE

This is to certify that Dr./Mr./Ms. JAYESH M. JADHAV

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2002

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr Jayeth M. Jodhoworking in Mechanica Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from Dune to & fro Nag por

for attend Workshop/FDP/Conference one week stop on conservation of from Dt. object to 11/03/22. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1200/-
2	Travelling Allowance	2400/-
3	Extra Expense	1300/
	Total	5200/

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

il awher

Narhe, Narhe, Pune-41

Sometrand forwarded to

JSPM Narhe Technical Campus Narhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL's

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Accountant	Principal/Director JSPM Narhe Technical Campu	Receiver's Signature

Name of the Institute: JSPM NTC

Campus Name: Narhe technical campus

GOVERNMENT COLLEGE OF ENGINEERING, KARAD



CERTIFICATE

GECK/Mech_sttp_EME/701-53 dated 19.07.2021

This is to certify that Mr./ Ms./Prof./pr Prashant B. Maitreya (Assistant Professor, JSPM NARHE, PUNE)

Has participated & successfully completed One Week Short Term Training Programme (Online) on

"Experimental Methods in Engineering"

Sponsored by

Technical Education Quality Improvement Programme (TEQIP)

Organized by

Department of Mechanical Engineering

Govt. College of Engineering Karad, Maharashtra

During 5th to 9th July, 2021

Prof.K.S.Gharge Co-ordinator

Prof.R.K.Shrivastava Co-ordinator & Head Mech. Engineering Prof.A.T.Pise Principal

Date: 12/07/202/

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Prashont Marfreya Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from

Pune - to & fro

Karad.

for attend Workshop/FDP/Conference one week sttp on Experimental methods from Dt. 05/07/4 to eg 107/21. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1200 1-
2	Travelling Allowance	800 /-
3	Extra Expense	3100 1-
	Total	5100/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Mash Technical Campus Campus Name: NTC

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GOVERNMENT COLLEGE OF ENGINEERING, KARAD



CERTIFICATE

GECK/Mech_sttp_EME/701-53 dated 19.07.2021

This is to certify that Mr./ Ms./Prof./Pr Bharat Aher (Assistant Professor, JSPM NARHE, PUNE)

Has participated & successfully completed One Week Short Term Training Programme (Online) on

"Experimental Methods in Engineering"

Sponsored by

Technical Education Quality Improvement Programme (TEQIP)

Organized by

Department of Mechanical Engineering

Govt. College of Engineering Karad, Maharashtra

During 5th to 9th July, 2021

Prof.K.S.Gharge Co-ordinator

Prof.R.K.Shrivastava Co-ordinator & Head Mech. Engineering Prof.A.T.Pise Principal

Date: - 12/07/2021

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am MY- B.B. Aher Working in Mechanic of Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

for attend Workshop/FDP/Conference One week STTP on experimental method from Dt. of 17/2 to ag 67/24. Please find the Attached for total expense. In Engineering

S.no	Description	Amount
1	Registration Fees	1200 /-
2	Travelling Allowance	800 /
3	Extra Expense	3100 /
	Total	5100/-

Sanction from sens

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name Campu	of the Institute : II PM us Name : Worke	Northe Technical Compus'
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(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future

CERTIFICATE

This is to certify that Dr./Mr./Ms. **GANESH H. BHOSALE**

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2022

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. George Bhosal Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from Pune

to & fro Nagpur.

for attend Workshop/FDP/Conference One week of pon conservation of from Dt. to Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 /-
2	Travelling Allowance	2400 -
3	Extra Expense	1300
	Total	5200 -

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

sometimed and accounts

JSPM Narhe Technical Campus Narhe, Pune - 411041

JAYAWANT SHIKSHAN PRASARAK MANDAL'S
Name of the Institute: TSPM Nach Technica Comps
Campus Name :
PAYMENT VOUCHER
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Bank
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Accountant Principal/Director JSPM Narhe Technical Campus Narho Firm Principal/Director Receiver's Signature

Amount

Description

S.no

GOVERNMENT COLLEGE OF ENGINEERING, KARAD



CERTIFICATE

GECK/Mech_sttp_EME/701-53 dated 19.07.2021

This is to certify that Mr./ Ms./Prof./pr Atul S. Patil (Assistant Professor, JSPM NARHE, PUNE)

Has participated & successfully completed One Week Short Term Training Programme (Online) on

"Experimental Methods in Engineering"

Sponsored by

Technical Education Quality Improvement Programme (TEQIP)

Organized by

Department of Mechanical Engineering

Govt. College of Engineering Karad, Maharashtra

During 5th to 9th July, 2021

Prof.K.S.Gharge Co-ordinator

Prof.R.K.Shrivastava Co-ordinator & Head Mech. Engineering Prof.A.T.Pise Principal

Date: 12/07/202/

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. Atus C. Part | Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from pune to & fro Korrad
for attend Workshop/FDP/Conference One week 5177 on tape

from Dt. 107/4 to 207/2 . Please find the Attached for total expense.

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S.no	Description	Amount
1	Registration Fees	1200 /-
2	Travelling Allowance	200 /-
3	Extra Expense	3100-
	Total	5100/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Canchio)

JSPM Narhe Technical Campus Marhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL's

	Name of the Institute: TPM N Campus Name: Northe	ty pure.
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Accountant	Principal/Director	Receiver's Signature



(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future

CERTIFICATE

This is to certify that Dr./Mr./Ms. **GOVIND U. RAIPHALE**

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2002

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir.

Crowing U. RaiphaleWorking in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

Pone to & fro round-trip travel from

for attend Workshop/FDP/Conference On eweek Still on Conservation of from Dtob (0) 22 Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500/-
2	Travelling Allowance	2400/-
3	Extra Expense	1300 /-
	Total	5200/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Sanchaned and ferrorded to

ISPM Narho Technical Campus



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

	Branch
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Norhe	1801
Name of the Institute: John NTC Pune	

Accountant

JSPM Marhe Technical Campus

Principal/Diperton

Receiver's Signature

-47104



(Managed by Vodithala Education Society, Hyderabad)
Ramtek, Nagpur (M.S.)
Accredited by NAAC, Approved by AICTE and COA, New Delhi
Permanently affiliated to RTM Nagpur University, Nagpur

One Week Short Term Training Program on

Conservation of Energy, Water and Environment – Present and Future

CERTIFICATE

This is to certify that Dr./Mr./Ms. **PRADEEP UTTAM GAIKWAD**

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/ 2012

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Prodeep Quikwad Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

for attend Workshop/FDP/Conference one week comp on conservation of from Dt. to Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 -
2	Travelling Allowance	2400.
3	Extra Expense	1300
	Total	5200 /-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

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JSPM Narhe Technical Campus

Narhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

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One Week Short Term Training Program on

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CERTIFICATE

This is to certify that **Dr./Mr./Ms. Madhuri Suhas Deokar**

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2022

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mx. M.S. Deo Kor Working in Mechanocal Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

for attend Workshop/FDP/Conference one week stop on Contervation of Energy from Dt. 06/03/22 Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 /-
2	Travelling Allowance	2400 1-
3	Extra Expense	1300 1-
	Total	5200/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sometimed forwarded to

Director JSPM Narhe Technical Campus Marine, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: ISPM Nach Technical Comps

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One Week Short Term Training Program on

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CERTIFICATE

This is to certify that Dr./Mr./Ms. Vinaykumar Raje

of JSPM Narhe technical campus, Narhe, Pune Maharashtra India has participated in One Week Short Term Training Program (STTP) on "Conservation of Energy, Water and Environment – Present and Future" organized by Department of Mechanical Engineering under Internal Quality Assurance Cell from 7th to 11th March 2022.

Mr. S. A. Borikar

Coordinator

Dr. S. K. Bhele

Coordinator

Dr. Y. M. Jibhakate

HOD, MED & IQAC Coordinator

Dr. Avinash N. Shrikhande

Date: 15/03/2022

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am My. Vincy Komor Roje Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

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for attend Workshop/FDP/Conference one week stop on consevuotion of Grown from Dt. 06/03/22 11/03/22 Please find the Attached for total expense.

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Thanking you for the same. Kindly do the needfull.

Yours sincerely

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Materials Today: Proceedings xxx (xxxx) xxx



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An insight into biomechanical study for replacement of knee joint

M.A. Kumbhalkar a,*, K.S. Rambhad a, Nand Jee Kanu a,b

- ^a Department of Mechanical Engineering, JSPM Narhe Technical Campus, Pune, Maharashtra, India
- ^bS. V. National Institute of Technology, Surat, Gujrat, India

ARTICLE INFO

Article history: Available online xxxx

Keywords: Biomechanics Knee arthroplasty Finite element analysis Patellofemoral joint Tibiofemoral joint

ABSTRACT

A knee joint sustains entire body load and there is surface contact between femur-patella and femur-tibia bounded with quadriceps muscles. An injury in knee joint may occur due to osteoarthritis disease which causes wearing between surfaces and also due to accident which causes muscle breakage, patella failure. tibiofemoral failure. The methodology involves an analytical approach using applied mechanics, biomedical and mechanical experimentation and validation with finite element analysis. The paper discusses a study on different methodologies used for replacement in tibiofemoral and patellofemoral component of knee joint. The methodologies are mainly playing an important role in various movements such as walking, running, jumping, climbing at various flexion, extension and squat position. A computer aided design tool is used and discussed to prepare exact shape of knee implant model for smooth performance at all conditions.

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Selection and peer-review under responsibility of the scientific committee of the 3rd International Conference on Advances in Mechanical Engineering and Nanotechnology.

1. Introduction

Biomechanics means the study, using mechanical methods, of the structure, function and movement of the human body parts, from organisms, cells, and cells at all stages. Biomechanics is a biophysics industry. The articulation of the knee is flipped to the thigh bone. Muscles of Quadriceps under the knee are bound. It is the important and crucial joint in the physical body. The knee may be a modified hinge joint, which allows flexion and extension also as slight internal and external rotation. The knee is susceptible to injury and to the event of osteoarthritis. Knee joint have two compounds named as tibiofemoral and patellofemoral components. It plays an important role in movement associated with carrying the weight in horizontal (running and walking) and vertical (jumping) directions. At birth, the kneecap is formed simply by cartilage, which is classified between 3 and 5 years [1,2].

Different forces acting on the knee and excessive ligament pressure due to overload are exerted at several actions, which affects knee function due to injuries such as ligament rupture. The two different forces which act on the knee joint are static and dynamic forces. Static strength is used if the body rests or not in movement, while the Dynamic force is moving or accelerating when the body

* Corresponding author. E-mail address: manoj.kumbhalkar@rediffmail.com (M.A. Kumbhalkar). is moving. The knee joint can be examined with the help of the ANSYS software and other forces may be applied to the knee by produces a two and three-dimensional model for the CAD software. The sustainability of the knee bones helps to know this [3,4].

1.1. Knee joint

The knee joint is nothing but a synovial joint. It allows for flexion and extension (and a small degree of medial and lateral rotation). It is the most complex joint in a human body. The knee provides mobility and support during various activities. It also supports during weight bearing and provides mobility during nonweight bearing. Involved with almost and functional activity of the lower extremity. It is formed by joining between the patella, femur and tibia as shown in Fig. 1. The thigh bone (Femur) the shin bone (Tibia) and the kneecap (Patella) articulate through tibiofemoral and patellofemoral joints as shown in Fig. 2. These bones are covered with an extremely hard and smooth articular cartilage designed to reduce frictional forces. The patella is located in a tincture called the intercondylar groove.

The knee is tibiofemoral and patellofemoral with two articulations. The surfaces of the joints are covered with cartilage hyaline. In one joint cavity they are enclosed. The tibiofemoral joint is a synovial articulation that connects the remote femur to the tibia. It is the main component that can carry weight in the knee joint.

https://doi.org/10.1016/j.matpr.2021.05.202

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The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

RespectedSir,

I am Dr M. A Kymbhckar Working in Mechanic of Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to &fro, Pune to worth arakhard,

To attend Workshop/FDP/Conference

from Dt. to 18,19, Morch. Please find the Attached for total expense. 2021.

S.no	Description	Amount
1	Registration Fees	2000
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3	Accommodation/other	60 O
	Total	5600/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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Applicant Signature

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JSPM Narhe Technical Campus Narhe, Pune - 411041



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PAPER . OPEN ACCESS

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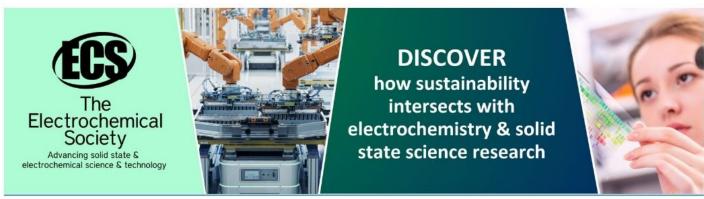
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Miao Mou, Xiaoqiang Zhao, Kai Liu et al.



Date:- |2 | 03 | 2020

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am D.D. Mohite

Working in Civil

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

for attend Workshop/FDP/Conference on Anarobic Biological treatment of Distilons from Dt. (Paper Presentalian) waste water from Dt. (Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	60001-
2	Travelling Allowance	
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Director

SPM Narha Technical Campus



Name of the Institute: SSPM, NTC

Campus Name: Hashe technical campus

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Application of Light Interference Technique for Locating Groundwater Veins

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- Research on calculation and optimal allocation of groundwater resources in Rizhao coastal area Yang Bengu, Yang Peng, Zhu Wei et al.



To,

The Director.

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam V.V. Muthekas Working in Civil Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

for attend Workshop/FDP/Conference on Life interterence tech. for locating Ground water weins.

from Dt. to Please find the Attached for total expense.

S.no	Description	Amount
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Thanking you for the same. Kindly do the needfull.

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Yours sincerely

Applicant Signature



Name of the Institute: JSPM, NTC

Campus Name: Marke technical Campus

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Experimental analysis of grey water treatment in rural areas using nanno metal oxides

Mr. S. S. Bansode, Mr. Prashant Jagade, Mr. Bankar Sagar and Mr. Kunal Pasalkar ISPM Narhe Technical Campus, Narhe, Pune, M. S., India - 411 041 Email: ssbansode.78@gmail.com

Abstract

The scarcity of fresh water is one of the major issues in rural areas. The primary objective of this study is to find the new sources of water for non potable use such as toilet flushing, ground water recharging, garden irrigation and floor washing. Secondary objective is to treat that source for safe and clean usage. Grey water is waste water generated from bath, shower, sink, cloth washing. Grey water is safe water after potable water. It can minimize potable water demand for non potable use. Statistical analysis of total waste water consumption, grey water production and treated water generation is shown here. In this study laboratory scale model has been developed and checked for domestic use. Various naturally available materials such as vitrified tiles pieces, sand, gravel, mat filters and nano metal oxide are used. Gravel used as a biological filtration system. Sand filter remove pathogens from water. Nano metal oxide act as absorbent for heavy metal. Some nano metal is very effective biocide against gram positive and gram negative bacteria. By this model various parameters of grey water is minimized such as Hardness up to 50-55%, TSS up to 80-85%, TDS up to 70-75%, COD up to 80-85% and BOD 87%. The analysis shown that treated water obtained from grey water is sufficient to satisfy the non potable demand such as toilet flushing, plant irrigation, ground water recharging and floor cleaning. The study reveals that it is possible to save lot of fresh water in rural areas every day by recycling and reusing treated grey water. In this system periodical maintenance is required. Without prior treatment kitchen waste water cannot be treated by this system. Treated water is used only for non potable demand.

Key Words: Grey water, nano-metal oxide, COO, TSS, recycling and reuse

Introduction

Water is becoming imitable resources in the rural areas. As per Al-Jazeera news on 27 JUL 2019 nearly 600 million Indians nearly half of the populations are facing acute water shortage in summer. In Beed District of Maharashtra state, more than 6000 tankers supply water to 15000 village every day in summer 2019.

With increasing population, water becomes rare resource it is creating threat to human. So we need to find alternative source to save the fresh water. By finding new source of water for non potable use such as toilet flushing, landscaping, ground water recharging, garden irrigation. Various scientists in the world are working on new way of conserving water. It includes grey water treatment. Grey water is purest form of waste water. Grey water is waste water generated from domestic processes such as cloths washing, bathing and hand basin. About 40-50% of waste water is grey water. Grey water also includes kitchen waste water but it contains bacteria so not use in this treatment. Grey water has potential as a resource that can be used as non potable use such as toilet flushing, ground water recharging, landscaping, garden irrigation and floor washing.

Water consumption in rural areas

As per IS 1172-1957 the domestic water consumption is about 135 lit/capita/day under normal conditions but in drought time it goes down to 55lit/capita/day. In normal condition 40-50 lit/capita/day waste

Date:- 11/03/2020

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

RespectedSir,

Mr. S.S. Bonsode Working in Civil Egg. Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to &fro

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1	Registration Fees	5100 /-
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

JSPM Narhe Technical Campus Narhe, Pune - 411041



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Narhe, Pune - 411041

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MEMBERSHIP CERTIFICATE

This Certificate of
Member is Granted to

SHIVAKUMAR KHAPLE

on the Nineteenth day of

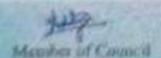
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In witness where of the said Institution has caused

its Common Seal to be affixed this Nineteenth
day of March TWO ZERO TWO ZERO



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The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Dr. S.B. Khaple

Working in Civil

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from

for attend Workshop/FDP/Conference Lifetime Membership of institute of 6ng.

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Thanking you for the same. Kindly do the needfull.

Yours sincerely

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

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Accountant JSPM Narhe Technical Campus	Receiver's Signature

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Pavement Performance Index for Rating of Flexible Pavements

Authors Shruti S Wadalkar, RK Lad, RK Jain

Publication date 2020

Conference Techno-Societal 2018: Proceedings of the 2nd International Conference on Advanced

Technologies for Societal Applications-Volume 1

Pages 683-691

Publisher Springer International Publishing

Description In this paper author has made an attempt to develop a Pavement Performance Index

(PPI) for a rating of flexible pavements. For the development of the PPI model, normalized method of fuzzy multiple criteria decision making method has been used. Total sixteen parameters have been considered as structural and functional indicators. Expert's opinion was taken from the field of transportation engineering in the form of linguistic terms. These terms were then converted into fuzzy numbers and a model has been developed to determine pavement performance index. The evaluation of the model has been shown in the paper by illustrative example, in which three segments of roads were considered and the values for all indicators were assumed. By converting these values into fuzzy number PPI of the three segments of the road was evaluated and rating

of roads was done. From this research work, it has been ...

Date: 14/04/20

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Dr. R.K. had

Working in

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

S.no	Description	Amount
1	Registration Fees	80001
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

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Receiver's Signature

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Accountant

Branch .

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has Att	ended /Par	ticipated & Prese	nted Paper titled	cloud	Applicati	ons for	ICT
		Schools.			4.4		ational Conferen

Dr. Anamika Singh
Director - SIMCA & Chief Convener

Date: 15/02/2020

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Dr. Sanjay Solankiworking in MCA

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from

for attend Workshop/FDP/Conference cloud application for ICI. International conf. on Inovations (ICI TM) from Dt. 06 |02 | 200 07 |02 | 20 Please find the Attached for total expense.

S.no	Description	Amount
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	Total	6,0001-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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Name of the Institute : JSPM NTC

Campus Name: Narhe technical campus

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This is to certify that Amol Chaudhary / Laukik Raut / K.S. Rambhad has presented the paper entitled as An experimental investigation of solar assisted solid desiccant dehunicather fobrical ed with in International Conference on Advances In Mechanical & Electrical Engineering (ICAMEE - 19), held during 24-25 August 2019 at GH Raisoni College of Engineering, Nagpur, India.

Dr. Sunil Nangrani General Chair

Dr. Abhay Khalatkar General Chair Dr. Preeti Bajaj

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Dr. K.S. Rambhad Working in Mech.

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from pune to & fro Magpu

for attend Workshop/FDP/Conference

from Dt. 24/08/190 25/08/19 . Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1,5001
2	Travelling Allowance	3,0001-
3	Extra Expense	5001-
	Total	5,5001-

Thanking you for the same. Kindly do the needfull.

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Yours sincerely

Applicant Signature



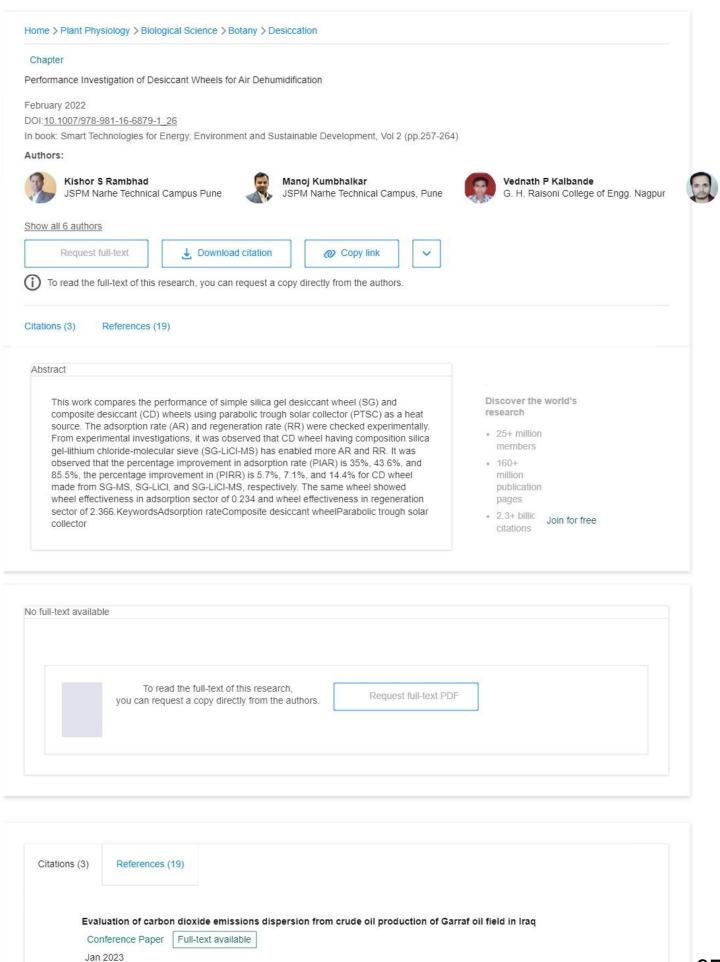
JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: JSPM, MCC

Campus Name: Harhe technical campus

	PAYMENT VOUCH	Date: 30 / 8 /2019	
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Recruit researchers Join for free Login



Date: 01/05/2020

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The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Dr. M. A. Kumbhalkenworking in Mech.

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

for attend Workshop/FDP/Conference Performance investigation of Decent wheels from Dt. to Pelease find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	7,0001 -
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Chuica/C

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Horno Tochnical Campuo



Name of the Institute: JSPM, NTC

Campus Name: Name technical campus

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LM 126501

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

SHIVAKUMAR KHAPLE

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Do-S.B. Khapale Working in Civi Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

JSTE

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	_
4	Local conveyance	_
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

JSPM Narhe Technical Campu Narhe, Pune - 411041

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Name of the Institute: JSPM NTC

Campus Name: Narhe



Name of the Institute: TIPM MTC

Campus Name: Narhe

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Date: 2/13/19.

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am

Dr. R. K. lad Working in Civi

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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S.no	Description	Amount
1	Registration Fees	3540
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4	Local conveyance	
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature Sometimed & Coswarded to Account



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The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Hamrata Ĵaĵoo Working in

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

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S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	_
4	Local conveyance	_
	Total	3546

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Sometimed & Postwarded to Account

Discor ISPM Narhe Technical Campus Narhe, Pune - 411041



LM 126503

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

MAHESH D. ANAD

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Mahesh Anap Working in Civil I am

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

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S.no	Description	Amount
1	Registration Fees	3546
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

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Name of the Institute . JSPM MTC

Campus Name: Narhe



JAYAWANT SHIKSHAN PRASARAK MANDAL's

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Name of the Institute: JSPM NTC

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I ampr. Sumant Chouchan Working in

Civil

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

to

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S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
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	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanctioned & Cerusdel to Account

Director

JSPM Narhe Technical Campus Narhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Name: Technical comput Campus Name: Name

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		Director			
	JSPM I	Varhe Tecnnik	cal Campus		

Narhe, Pune - 411041

The Director.

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam R.H. Kulkaroi

Working in

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference TSTE

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	_
4	Local conveyance	, –
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanctioned & Coswarded to Account

JSPM Narhe Technical Campus Narhe, Pune - 411041



ADAK MANDAL'S

	Name of the Institute: TSPM Name Campus Name: Northe	ebnical campus
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The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Vilas Gaikwad Working in CSE Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference ISTF

Sam De to Planca find t

from Dt. to . Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	_
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	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sometioned & loowarded to Account

Director ISPM Narhe Technical Campus Narhe, Pune - 411041



LM 126520

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

KHARAT JYOTI S.

LIFE MEMBER

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2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam J.S. Kharat

Working in

CSE

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference ISTE

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	
4	Local conveyance	
	Total	3570

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sactioned & forwarded to Account

JSPM Narhe Technical Camp ... Narhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: ISPM Nache Technical compa

PAYMENT VOUCHER

Rs. 3540

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Bank | Branch | Cheque No | Date | COTh |

Principal/Director | Receiver's Signature

JSPM Narhe Technical Campus

Narhe, Pune - 411041

118



12th - 15th December 2018

Certificate

This is to certify that

Dipika Pradhan

has presented a paper in Photonics 2018, organized by Indian Institute of Technology Delhi on December 12-15, 2018

Anurag Sharma
Conference Chair

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Dipika Pradhan Working in E4TC Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from ρ une to & fro ρ where ρ is ρ and ρ and ρ is ρ and ρ and ρ is ρ is ρ and ρ is ρ in ρ is ρ in ρ

for attend Workshop/FDP/Conference Photonics 2018-ITT Dellie

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S.no	Description	Amount
1	Registration Fees	3,000
2	Travelling Allowance	2.500
3	Extra Expense	2,500
	Total	8,0001-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Narhe, Pune-41

Carchio

Director

SPANarhe Technical Campus

North Pune - 411041

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

campus Name: Marke technical Campus		
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Pay Mr. / Mrs. Dipika Badhan a sum of Rs Fight thousand only		
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Paid by cash / cheque onCo-8 h	Rs. 800	
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Accountant /SPrincipal/Director	Receiver's Signature	
Narhe, Pune - 44044		

Name of the Institute : JSPM, NTC

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Indian Society for Technical Education

IIT (D) CAMPUS, Katwaria Sarai Shaheed Jeet Singh Marg, New Delhi-110016 Ph.: 26963431, 26513542, 26514234

Name: NEETA RAJEEV KADAM

M. No.: LM 126521

Year: 2019

Executive Secretary

LIFE MEMBERSHIP CARD

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Neeta kadam Working in F&TC I am

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

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from Dt.

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. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	_
4	Local conveyance	_
	Total	3540

Thanking you for the same. Kindly do the needfull.

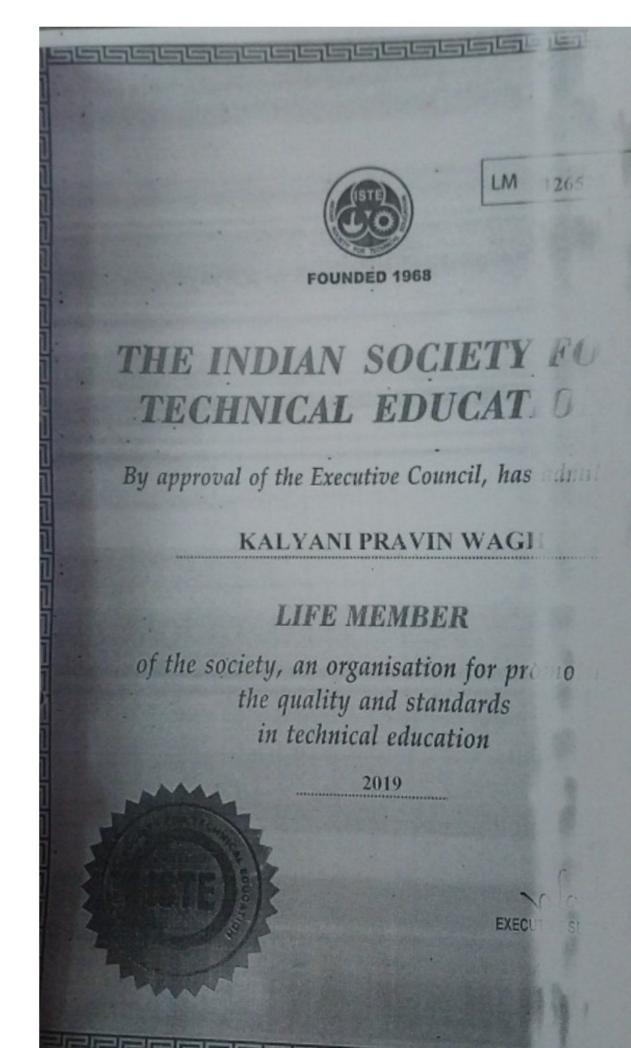
Yours sincerely

Applicant Signature

sanctioned & forwarded to Account

ISPM Name Technical Campun Narhe, Puris - 411041

Campus Name	·· NTC	bnical Campus
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TO CONTROLL	JSPM Narhe Technical Campus	



The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Kalyani waoth Working in ExtC Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	
4	Local conveyance	_
•	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

sanctioned & Partwarded to Account

Director
Director



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

Name of the Institute: JSPM, Narhe Technical Campus. Campus Name: NTC.

PAYMENT VOUCHER

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LM 126522

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

PATIL VIDYA SUBHASH

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am

Vidya Patil Working in

E&TC

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

ISTE

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	_
4	Local conveyance	_
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sometioned & Portugoded to Account

JSPM Narhe Technical Campus Marhe, Pane - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

Name of the Institute: JSPM, Nathe Technical Campus Campus Name: NTC

PAYMENT VOUCHER

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Pay Mr. / Mrs Vidya Patil a sum of Rs that e thousand	five hundred forty	
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LM 126515

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

AMBARE SANTOSH SHIVRAM

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

7	٦.
	\mathbf{o}

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

S.S. Ambare Working in Iam

FE

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

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from Dt.

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. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	_
4	Local conveyance	_
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

sometioned & Corrasded to Account

Director JSPM Narhe Technical Campua Narhe, Pune - 411041

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Name of the Institute: JSPM Newhe Technical Campus Campus Name: Narhe

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Accountant	JSPM Narhe Technical Campus Narhe, Pune - 411041	



LM 126516

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

NAGNATH M. GAIKWAD

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Nagnath Gaikard Working in

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	
4	Local conveyance	_
	Total	3540

Sometioned & Cosuradded to Account

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

JSPM Narhe Technical Game Marhe, Pune - 411041



Name of the Institute: ______Northe Technical Campus Campus Name: ______Northe_____

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Accountant	Principal/Director Director USPM Narhe Technical Campus North Pune - 1944	Receiver's Signature



LM 126500

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

SUDARSHAN D, KORE

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Sudarshan kore Working in

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

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from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	_
4	Local conveyance	
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Senctioned & leswarded to Account

JSPM Narha Technical Carterio Marhe, Puns - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Warshe Technical Campus Campus Name: Narhe

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Dynamic Analysis and Experimental Investigation for Vibration Response of Suspension System of Indian Railway Vehicle

M. A. Kumbhalkar 1,*, Dr. D. V. Bhope2, Dr. A. V. Vanalkar3, P. P. Chaoji4

^{1,*}Department of Mechanical Engineering, JSPM Narhe Technical Campus, Pune, Maharashtra, India
²Department of Mechanical Engineering, Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur, Maharashtra, India

³Department of Mechanical Engineering, KDK College of Engineering, Nagpur, Maharashtra, India ⁴Assistant Chemist and Metallurgist, Electric Locomotive Workshop, Central Railway, Bhusawal, Maharashtra, India

ABSTRACT: A vibration analysis of suspension of rail vehicle has to be performed which reflects both the varying load and response. A rail vehicle experiences lateral and vertical effect in very high response due to track imperfection, tractive effort, breaking effort, curving and tracking. The differential equation for vibration analysis gives the time dependent response in the superstructure by including damping forces and inertial forces in the equation and each node is subjected to a sinusoidal function of the peak amplitude for that node. This paper represents the vibration response of rail vehicle having primary and secondary suspension with vertical, lateral and longitudinal damping. At first, the complex structure of dynamics of rail vehicle is to simplify in two mass damper suspension models to solve complex differential equation to find its natural frequency and amplitude. The aim is to check dynamic sinusoidal variations for the failure response of primary suspension spring by finding the natural frequency of model and excitation frequency of rail. The vibration response of two mass suspension systems with base excitation is obtained analytically using differential equation which gives peak amplitude by steady state solution. The mathematical model for increasing complexity i.e. for lateral and roll dynamics has also been developed and vibration analyzer is used to find dynamic behavior of rail vehicle in running condition at an average speed of 80-100 km/hr for number of instances during smooth track, curving and tracking.

KEYWORDS: Spring mass damper system, vibration analyzer, rail vehicle, dynamic analysis, modal & harmonic analysis.

I. INTRODUCTION

Mechanical vibration is the study of oscillatory motions of a dynamic system which is a repeated motion with equal interval of time. Free vibrations are oscillations about a system equilibrium position that occurs in the absence of an external excitation force [1]. A rail vehicle is the dynamic multibody system which has the repeated oscillation of its suspension system due to unevenness of track condition or due to fluctuations of load. The dynamic behavior of a railroad vehicle also depends on the load and the mechanical systems, such as springs, dampers, etc., which interact with the wheels, the vehicle body and bogies. A Rail vehicle has primary and secondary suspension system mounted between bogie and wheelbase. The wheelbase has the primary suspension spring with inclined damper at end axle spring and concentric inner and outer spring assembly at middle axle. The body has secondary suspension system mounted between frame and bogie with vertical, lateral and longitudinal damping. Figure 1 shows the primary and secondary suspension system of dynamic multibody railroad vehicle.

The dynamics of the railway vehicle represent a balance between the forces acting between the wheel and the rail, the inertia forces and the forces exerted by the suspension and articulation. In a complete model of the dynamics of a railway vehicle, the vehicle is considered to be assembled from wheel sets, car bodies and intermediate structures which are flexible, and which are connected by components such as springs and dampers. Similarly, the vehicle is considered to run on a track which has a complex structure with elastic and dissipative properties. An objective of the study of railway vehicle dynamics is to develop analytical or numerical models describing the mechanics of various phenomena by the simplest model possible. These can be used to explore suspension and vehicle concepts and to develop a basis for physical understanding and insight [1, 2].

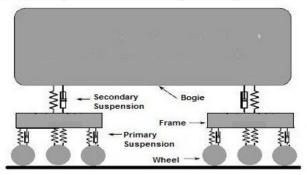


Figure 1: Rail vehicle three wheel engine with primary and secondary suspension system

Primary and secondary suspension is responsible for performance of isolation and absorption of shock loads and vibration and smooth control over movement between the car body and bogie. Springs permit free movement in all directions but lateral buffers and dampers restrict the amount and rate of lateral movement. Vertical dampers and rebound limit chains restrict the amount are rate of the vertical rebound of the locomotive car body. Pitch rate of car body is controlled by yaw (longitudinal) dampers.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. M.A. kumbhalkar Working in Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my 131312019 to & fro 181312019 round-trip travel from

to attend Workshop/FDP/Conference eTime 2019 KDK college Magpyn (Internation al. conf.)

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S.no	Description	Amount
1	Registration Fees	3500
2	Travelling Allowance	3000
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4	Local conveyance	
	Total	6500

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Marko, Pung - 411041

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JAYAWANT SHIKSHAN PRASARAK MANDAL's

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ISPM Name Technical Campus



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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

KUMBHALAKR MANOJ A.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Manoj Kurobhalkar Working in Mech Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt. to . Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	
3	Accommodation	
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	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

JSPM Narhe Technical Campus Marhe, Puna - 411041

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SHIKSHAN PRASARAK MANDAL's TSPM Northe Technical compans

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

PRASHANT BHARAT MAITREYA

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

146

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Prastant Maitrey a Working in

Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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S.no	Description	Amount
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4	Local conveyance	_
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

sometioned & Coswarded to Account

Director JSPM Narhe Technical Campus Narhe, Pune - 411041

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: Ispm Northe Technical Compus Campus Name: Northe

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	Nache Pune 444044	







G.H. RAISONI ACADEMY OF ENGINEERING AND TECHNOLOGY NAGPUR (NAAC Accredited)

Mechanical Engineering Department in association with Solar Energy Society of India & SunDip Solar.

Organize Faculty Development Program

"Design of Solar Photovoltaic System"

	Certificate		
This is to certify that Mr.	MR. SACHIN B. P.	AWAR	of
GHRCE NAGPUR	has attended Fac	ulty Development Program of	on
Design of Solar Photovo scored 4 grade.	oltaic System during 26	th to 30th November, 2018 and	
WAST.	Voor	Nog wie	*
Dr. Achal-S. Shahare Convener and HoD	Varsha Sonaskar Director, SunDip Solar	Dr. Vivek Kapur Principal, GHRAET, Nagpur	TT.
Management NAGPUR PUNE PLACE		her Courses CHHINDWARA	III

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Mr. S.B. Powor Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from pune to & fro Nagpur for attend Workshop/FDP/Conference FDP OD Design of solor Phatovoltaic System, from Dt. 25/11/18030/11/2018 Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500/-
2	Travelling Allowance	2500/-
3	Extra Expense	1600/-
	Total	5600 l-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Nach Technical Campy Campus Name: NTC

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Received the sum of
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Receiver's Signature



THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

SAGAR KADU P.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Sagar kadu

Working in

Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

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. Please find the Attached for total expense.

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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

St Campus

JSPM Narhe Technical Campus Narhe, Pune - 411041

Sanctioned & lessended to Accorpt



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSAM Northe Technical Campus. Campus Name: Northe

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	JSPM Name Technical Campus	



THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

Dr.GAWANDE JAGANNATH S.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Gawarde Tagganath Working in

Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

to

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Description	Amount
Registration Fees	3590
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Total	3540
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

sanctioned & forwarded to Account

JSPM Narhe Technical Campus Narhe, Pune - 4/1041

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Northe Technical Compose Campus Name: Worke.

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Narhe. Puno - 411041







ACADEMY OF ENGINEERING AND TECHNOLOGY NAGPUR (NAAC Accredited)

Mechanical Engineering Department in association with Solar Energy

Society of India & SunDip Solar. Organize

Faculty Development Program

"Design of Solar Photovoltaic System"

Certificate

This is to certify that Mr.	MR. SATISH B.SA	TPALof	
GHRCE NAGPUR	has attended Fac	ulty Development Program on the to 30th November, 2018 and	
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Management NAGPUR PUNE JALGAON #		ner Courses CHHINDWARA	

Date: 09/12/2018

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Dr. Sasish Salpal Working in Mechanic Cal Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from pune to & fro Nogpor

for attend Workshop/FDP/Conference FDP on Destan of solor phutovo Itaic System

from Dt. 25 | 11 | 40 3 0 | 11 | 18. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1200/-
2	Travelling Allowance	2500/-
3	Extra Expense	1600/-
	Total	5600/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Nach Technical Compus Campus Name: NTC

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

DHUMAL GANESH S.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Ganesh Dhumal Working in Mech Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

from Dt.

to

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S.no	Description	Amount
1	Registration Fees	3540
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	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Director
JSPM Narhe Technical Campus

Synctioned & forwarded to Account

Narhe, Pune - 411041

The about governm

JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: JSPM Nache Technical Campus
Campus Name: Nache

PAYMENT VOUCHER

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

KALE SANDEEP S.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

164

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Kale Sandeep

Working in Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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from Dt.

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S.no	Description	Amount
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanctioned & Penvasded to Account

JSPM Narhe Technical Campus Narhe, Pune - 4/1041



JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: ISPM Nache Technical Campus
Campus Name: Nache

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

DHAWARE PRASHANT A.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Dravore Prashort Working in Mech Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

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S.no	Description	Amount
1	Registration Fees	3540
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3	Accommodation	_
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Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

JSPM Narhe Technical Campus Narhe, Pune - 411041

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JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: ISPM Nache Technical Campus Campus Name: Nache

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Accountant SPM Name Technical Campus	Receiver's Signature	
Marka Burna 444044		



THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

DEOKAR MADHURI SUHAS

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Deoka's Madhun Working in Mech Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference ISTE

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from Dt. to . Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	3590
2	Travelling Allowance	_
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4	Local conveyance	
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Somotioned & Parasales fo Account

Director

JSPM Narhe Technical Campus

Marhe, Pune - A11041



JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: ISPM Nache Technical Campus

PAYMENT VOUCHER

Date: 18/105/2019

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a sum of Rs. Three Thousand five Hundred & Forty only

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Ph/Narbar/Directocal Campus

Narhe, Pune - 411041

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Receiver's Signature



THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

SAWADADKAR GAJANAN S.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

173

Date: 18/5/2019

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Sawadkar Gajanan Working in Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my to & fro round-trip travel from

to attend Workshop/FDP/Conference

JSTF.

from Dt.

to

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S.no	Description	Amount
1	Registration Fees	3540
2	Travelling Allowance	_
3	Accommodation	_
4	Local conveyance	
	Total	3540

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sactioned & Perwarded to Account

JSPM Narhe Technical Campus Marhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: JSPM Nache Technical Compus
Campus Name: Nache.

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Accountant	ISPM Narhe Technical Campus	Receiver's Signature	

PAYMENT VOUCHER







G.H. RAISONI ACADEMY OF ENGINEERING AND TECHNOLOGY NAGPUR (NAAC Accredited)

Mechanical Engineering Department in association with Solar Energy Society of India & SunDip Solar.

Faculty Development Program

"Design of Solar Photovoltaic System"

Certificate

This is to certify that Mr. KISHOR S RAMBHAD of GHRCE, NAGPUR has attended Faculty Development Program on Design of Solar Photovoltaic System during 26th to 30th November, 2018 and scored A + grade.

Dr. Achal S. Shahare Convener and HoD

Management Law

Varsha Sonaskar Director, SunDip Solar

■ NAGPUR ■ PUNE ■ JALGAON ■ AMRAVATI ■ AHMEDNAGAR ■ CHHINDWARA

Schools

Dr. Vivek Kapur Principal, GHRAET, Nagpur



The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Dr. K.S. Rambhad Working in Mech.

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from pune to & fro Magpu

for attend Workshop/FDP/Conference

from Dt. 24/08/190 25/08/19 . Please find the Attached for total expense.

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Thanking you for the same. Kindly do the needfull.

Canction-

Yours sincerely

Applicant Signature

RICKS

Narhe Technical Campus



JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: JSPM, MCC

Campus Name: Harhe technical campus

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

HOMBAL PORNIMA M.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education

2019



EXECUTIVE SECRETARY

179

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Hombal Proving Working in Mech Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference TSTE

from Dt. to . Please find the Attached for total expense.

S.no	Description	Amount
3.110	Registration Fees	3540
1		-
2	Travelling Allowance	_
3	Accommodation	
4	Local conveyance	
	Total	1 2 (2)

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Director

JSPM Narhe Technical Campus

Warhe, Pune - 411041

sanctioned & loswarded to Account

180



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: ISP19 Nache Technical Campus Campus Name: Nache

	PAYMENT VOU	CHER	
Rs. 35401-		Date: \ 8 / 05/20 19	
Pay Mr. / Mrs. Prof.	P. M. Hombal	2 The Deputy Registrar Beservation Cell, Univer	۸.
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G.H. RAISONI ACADEMY OF ENGINEERING AND TECHNOLOGY NAGPUR (NAAC Accredited)

Mechanical Engineering Department in association with Solar Energy Society of India & SunDip Solar.

Organize
Faculty Development Program

"Design of Solar Photovoltaic System"

Certificate

This is	to certify that Mr.	Ms.ABOLI D.HALV	WE	of
GHRCE NAGPUR		has attended Faci	ulty Development Progr	ram on
	of Solar Photovo ↑ † grade.	oltaic System during 26	to 30th November, 2018	and
MA	五.	Varsha Sonaskar	Dr. Vivek Kapur	*
r. Achal 3. S Convener and		Director, SunDip Solar	Principal, GHRAET, Na	igpur 📆
neering	Management	Law Schools Oth	ner Courses RA	INO
MACRIER .	PLINE BIALGAON BA	MRAVATI . AHMEDNAGAR .	CHHINDWARA	RSIIII OH DANG

Date:- 10/12/2018

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

I am Ms. A. D. Halwe Working in Mechanical Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my

round-trip travel from pune to & fro Nagpur.

for attend Workshop/FDP/Conference FDP on Design of solon phatovoltaic system

from Dt. 25] 4 8to 3 0 1 | | 8 . Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	1500 /-
2	Travelling Allowance	2500 /-
3 Extra Expense		1600/-
	Total	5600/-

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

ISPM Northe Tochnical Campus

Northe Puns - 411041

183



JAYAWANT SHIKSHAN PRASARAK MANDAL's

Name of the Institute: US		mical Compus
	ENT VOUCHER	Date: 181 12-120-298
Rs. 5600 (-		No.
Pay Mr. / Mrs. A. D. Halwe	Six handred	onh
being FDP on Dunm of	Rojar Photovolt	au System
and debit on	account	Received the sum of
Paid by cash / cheque on		Rs 5 600/_
Bank		
Branch		
Cheque No Date :		Abyalve

184

Receiver's Signature

069366





The Institution of Engineers (India)

MEMBERSHIP CERTIFICATE

This Certificate of
Associate Member is Granted to

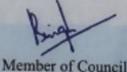
DR.JAGANNATH S.GAWANDE

on the Seventeenth day of March TWO ZERO TWO TWO

In witness where of the said Institution has caused its Common Seal to be affixed this Seventeenth day of March TWO ZERO TWO TWO



AM3025779



Secretary and Director General

To.

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam J.S. Gawarde

Working in

Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

TIT

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	2094
2	Travelling Allowance	_
3	Accommodation	
4	Local conveyance	
	Total	2094

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Director
JSPM Narhe Technical Campus
Warhe, Pune - 411041

somationed & Pervarded to Account



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Nache Technical Campus Campus Name: ____Nache.

	PAYMENT VOUCHER	
		Date: 22/03/20/9-
Rs. 20941-		No. :
Pay Mr. / Mrs. Dr. J	1.S. Gawonde	
a sum of Rs. Two T	housand & Ninety	- Four only -
being <u>IEI</u>		·
and debit on	account.	Received the sum of
Paid by cash / cheque on	Eagh	Rs. 20941 -
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Cheque No.	Date :	16/11
Potit	Principal/Director	Possing's Signature
Accountant	JSPM Name Technical Campus	Receiver's Signature
	JSPM Marine Technical Campus	
	Warhe, Pune - 411041	

069245





The Institution of Engineers (India)

MEMBERSHIP CERTIFICATE

This Certificate of
Associate Member is Granted to

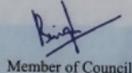
RASHI A.YADAV

on the Seventeenth day of March TWO ZERO TWO TWO

In witness where of the said Institution has caused its Common Seal to be affixed this Seventeenth day of March TWO ZERO TWO TWO



AM3024789



Secretary and Director General

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam R.A. Yadau

Working in

·Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

TEI

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	2094
2	Travelling Allowance	
3	Accommodation	
4	Local conveyance	
	Total	2094

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Director
JSPM Narhe Technical Campus
Narhe, Puns - 411041

Sometioned & Possuesdel to Account



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: JSPM Nache Technical Campus Campus Name: Nache

PAYMENT VOUCHER	Date 22 / 03/2019	
Rs. 2094/-	No. :	
Pay Mr. / Mrs. prof L. A. Yadav a sum of Rs TWO Thousand & Ninety	- Four only	_
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and debit on account.	Received the sum of	
Paid by cash / cheque on	Rs 20941 -	
Bank		
Branch		
Cheque No Date : Principal/Director	Receiver's Signature	
Accountant ISPM Name Technical Campus	Notorior o organization	
Narhe Pune - 411041		

069255





The Institution of Engineers (India)

MEMBERSHIP CERTIFICATE

This Certificate of
Associate Member is Granted to

BHARAT B. AHER

on the Seventeenth day of March TWO ZERO TWO TWO

In witness where of the said Institution has caused its Common Seal to be affixed this Seventeenth day of March TWO ZERO TWO TWO



AM3025872

Member of Council

Secretary and Director General

To,

The Director,

JSPM Narhe Technical Campus.

Subject: Request For Reimbursement of Travel Expenses, Registration charges and Accommodation.

Respected Sir,

Iam Bharat Aber

Working in

Mech

Department

Writing this letter to request reimbursement for the applicable expenses incurred due to my round-trip travel from to & fro

to attend Workshop/FDP/Conference

IET

from Dt.

to

. Please find the Attached for total expense.

S.no	Description	Amount
1	Registration Fees	2099
2	Travelling Allowance	
3	Accommodation	_
4	Local conveyance	_
	Total	2094

Thanking you for the same. Kindly do the needfull.

Yours sincerely

Applicant Signature

Sanctioned & Converted to Account

JSPM Narhe Technical Campus Narhe, Pune - 411041



JAYAWANT SHIKSHAN PRASARAK MANDAL'S Name of the Institute: ISPM Nache Technical Campus

PAYMENT VOUCHER

Date: 22/03/2019

No.:

Pay Mr. / Mrs. Drot. B.B. Aher

a sum of Rs. TWO Thousand & Minety - Four only

being TET

and debit on ______ account.

Paid by cash / cheque on ______ Cash

Branch ______

Cheque No. _____ Date: ______

Principal/Director

Receiver's Signature

Mache, Fune - 411041