



Madhyamanchal

REC

*Welcome to the
world of dynamic education ...*

BROCHURE

**DIPLOMA IN ENGINEERING PROGRAMS - 3 YEARS
TSLC IN ENGINEERING PROGRAMS - 18 MONTHS
SHORT TERM TRAINING PROGRAMS - 3 MONTHS**

FEW WORDS FROM MANAGING DIRECTOR

Dear Prospective Students,

In our regions, we have many general stream education institutes but very hardly find quality engineering institutes from a long time by this way we inspired to open Madhyamanchal Regional Engineering College (MREC).

MREC has been the technical academic heart to the region for over eleven years and it takes challenges and responsibilities to produce high quality graduates who are the next generation of scholars, inventors, entrepreneurs and civic leaders.

The national / international market place today offers vast opportunities for electrical, electrical & electronics, civil and computer of business / industries of all sizes, as a result, there will be strong demand for Sub Engineer and Sub Overseer (Electrical, Electrical & Electronics, Civil and Computer) with through knowledge and sound practical skills, MREC has delivered 3 years and 18 months full time education programs and 3 months short term training programs to impart practical training to students who wish to enter the exciting and highly rewarding world of electrical, electrical & electronics, civil and computer and also for those who wish to update their knowledge of the various field of engineering.

I welcome you to MREC and wish you the very best in your studies. I hope you enjoy your experiences here and take the opportunity that we offer to achieve academic excellence.



Sanjay Kumar Sah

Managing Director
MREC



Welcome Message !

From The Principal

Madhyamanchal Regional Engineering College is thriving as a leading Technical Institution in Nepal under CTEVT. It is committed to provide quality education and learning environment equipping its graduates with required knowledge and skills to meet the global technical challenges.

The college has space for every section of the society and economically unprivileged students. Our main aim is to educate and train students to develop into real hands on technologist / technician who can meet the tomorrow's global technological challenges of the enterprise economic.

I would like to call all the guardians, students, professionals and all associated individuals to have a faith in our efforts so that indigenous hand can be produced and they can easily get employment in their own surrounding as well as abroad.

Please do not hesitate to contact the college if you have any queries.

I am looking forward to welcoming you at the MREC.



Er. Suresh Mishra
BE (Electrical & Electronics)
Principal, MREC



ABOUT MREC

MREC is the first and foremost engineering college with TEN programs. Three programs of Diploma in Computer Engineering (DComE), Diploma in Electrical Engineering (DEE) and Diploma in Electrical & Electronics Engineering (DEEE). Two programs of TSLC in Civil Engineering and TSLC in Electrical Engineering and Five Short Term Training Programs of Assistant Plumber, Electrical Appliance Repairer, Junior Building Electrician, Mobile Phone Repairer & Computer Operator at Janakpur. Within eleven years, it flourishes with new dimension and running successfully to attain its goals. The idea of founding this college was conceived in response to need for quality technical education in an enthusiastic, eminent engineers and professionals who are highly sensitive to the challenges and demands of tomorrow. MREC is a private technical institute affiliated to the government owned Council for Technical Education and Vocational Training (CTEVT), Nepal and hence its certificates are recognized in Nepal as well as abroad.

- Was established in Janakpur in 2008 AD.
- A full capacity of college teaches 512 (Diploma & TSLC) students every year.
- Different Diploma in Engineering Programs (DComE, DEE & DEEE), TSLC in Engineering Programs (TCE & TEE) and Short Term Training Programs (Assistant Plumber, Electrical Appliance Repairer, Junior Building Electrician, Mobile Phone Repairer & Computer Operator) offered.
- Welcomes more than 224 (Diploma & TSLC) new students each academic year.
- Has an excellent infrastructure and education environment.
- Has one of Nepal's popular Sub Engineering and Sub Overseer College.
- Professional and experienced faculty members & highly motivated experienced staffs.
- Affiliated to CTEVT Sano Thimi, Bhaktapur, Nepal.

THE CITY

Janakpur.....

- Has a population of around 671364.
- Has a tropical climate.
- Is a historical, cultural, and religious city.
- Is a capital of ancient Mithila Kingdom.
- Is half an hour flight from Kathmandu.
- Is a pilgrimage and religious tourist destination for millions.
- Birth place of Sita (a Hindu Goddess).
- Available all modern facilities.
- The holy Janaki Mandir and Ram Mandir are situated.
- Temperatures an average of 35°c in summer and 10°c in winter.
- Economic cost of living.
- City of pounds and temples.

VISION

MREC is first and foremost a technical learning institute committed to creating optimum learning environments and assisting students in an accelerated process of lifelong learning.

MISSION

The mission of MREC is to provide quality liberal arts and career oriented programs at Diploma/TSLC in engineering level of different faculties.

MREC is a technical centre of excellence, providing an enterprising and stimulating environment in which students can learn and develop. MREC aims to inspire all students to realize their full potential to become professional and creative technicians / technologists within the enterprise economic.

GOALS

MREC is dedicated to the following goals -

- **Student Success:** Employment opportunities that require significant educational preparation.
- **Student Satisfaction:** MREC will provide for the educational, personal and social development of students through effective academic advising and counseling and through high quality cultural, recreational and extra curricula program.
- **Technical Education:** All MREC students will have a solid foundation in technical education. It will provide a comprehensive base of liberal studies as the foundation for higher degree in any stream as well as offering professional, technical and occupational degrees.
- **Faculty and Staff Development:** MREC will have the human resources to accomplish the goals of the institute by supporting a commitment to research to scholarly and creative activities that enhance instructional programs and teaching excellence.

WHAT MREC DOES ?

- It conducts coaching classes popularly known as Diploma/TSLC in Engineering Entrance preparation class.
 - » To prepare for the exam in short period and in an efficient and comprehensive way.
 - » To secure good marks with minimum effort.
- It provides information regarding Sub Engineering and Sub Overseer career.
 - » The scope of engineering faculties and their tentative marks demand.
 - » The opportunities of engineering study in Nepal and abroad.
 - » The schedule of examination and the exam formats.
 - » The criteria about the entrance policies to get admission.

- It takes a series of model exams for CTEVT and other institutions which makes student familiar with the model questions similar to the entrance exam.
- It provides necessary reading materials for the preparation of the entrance exam.

PROGRAM OF STUDY

| | | |
|--|-------------|-----------|
| Diploma in Electrical & Electronics | Engineering | 3 years |
| Diploma in Electrical | Engineering | 3 years |
| Diploma in Computer | Engineering | 3 years |
| TSLC in Electrical | Engineering | 18 months |
| TSLC in civil | Engineering | 18 months |
| Short Term Training Programs | | 3 months |
| (Assistant Plumber, Electrical Appliance Repairer, Junior Building Electrician, Mobile Phone Repairer and Computer Operator) | | |

DISTRIBUTION OF ADMISSION FORM

The applicant can receive the form from MREC office or authorized centers by paying the fee structured by CTEVT.

ELIGIBILITY FOR ADMISSION

- The applicant should have clean academic record throughout his/her education in school life.
- The applicant from general stream SLC or SEE passed / equivalent to SLC / SEE or TSLC passed with an aggregate of 68.33% from CTEVT (for Diploma level).
- All applicants must satisfy the entrance requirements of CTEVT, Nepal.
- Admission is through personal interview.

REQUIREMENTS OF APPLICANT

- Photocopy of academic certificates – (2 copies each).
- Photocopy of citizenship certificate – (2 copies).
- Photocopy of domicile certificate or valid passport for foreign applicant – (2 copies).
- Recent taken colour passport size photo – (4 pieces).
- Entrance exam fee of CTEVT - as per CTEVT notice.

SCHOLARSHIP & FINANCIAL ASSISTANCE

MREC offers a range of scholarships to needy students as financial assistance. The scholarship is provided to 10% of the total number of students. The scholarship for the first semester student is determined on the basis of obtained percentage marks of scholarship examination conducted by MREC. Its objectives are -

- Better gender participation.
- 25% scholarship in tuition fee to all female students as a token for empowerment of women through technical education.
- To provide opportunity to meritorious and deserving students to pursue their studies in MREC.

Note - The selection for scholarship is made on the basis of –

- » Marks in SLC / SEE equivalent to SLC or SEE / TSLC.
- » Internal Scholarship Test.

UNIFORM

- Students have to come in sky-blue with white strip line full sleeve shirt, navy blue trouser, black leather shoes with white socks.
- Same dress for girl students. However, they may option for navy blue salwar, sky-blue with white strip line kurta, navy blue dupatta and black leather shoes with white socks.
- Neck tie with badge which will be provided by the college.
- Other than college uniform student will not be permitted to attend classes.

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING [3 YEARS]

Electrical & Electronics Engineering deals with application and study of power and devices. On completion of Diploma in Electrical & Electronics Engineering students will be able to understand the basic principles of electricity and electronics, deals with the applications of electricity, electronics and electromagnetism. EEE designs, develop and test components, devices, systems or equipments that use electricity as part of their source of power, supervise electrical and electronics works, designing electronic components apart from software and network system as well as able to train others.

JOB PROVIDERS

Nepal Electricity Authority, Nepal Telecom Authority, Nepal Air Lines, Radio Transmission Development Committee, Thermal Power Stations, Hospitals, TV Stations, FM Stations, IT Industries, Automobile Industries, Teaching Institutions, Private organizations as well as government organizations, foreign employments etc.

CAREER OPPORTUNITY

Sub-Engineer, Marketing Executive, Supervisor, General Installer, FM Installer, Radio Transmission Controller, Telecommunication Executive, Broadcast Executive, Manufacturing Systems Executive, Circuit Designer, Multimedia Programmer, Air Civil Support Executive, Instructor etc.



PROGRAM STRUCTURE

| | Semester I (6 Months) | | Semester II (6 Months) | |
|--|--|--|--|--|
| | Year One | | | |
| | Comm. Nepali Comm. English Engineering Mathematics I Engineering Physics I Engineering Chemistry I Engineering Drawing I Workshop Practice I | | Engineering Mathematics II Engineering Physics II Engineering Chemistry II Computer Application Safety Rules and Regulation Workshop Practice II Engineering Drawing II Principles of Electrical Engineering | |
| | Semester III (6 Months) | | Semester IV (6 Months) | |
| | Year Two | | | |
| | Computer Programming Basic Electronics Digital logic Electrical & Electronics Engg. Material Electric Circuit Theory Electrical Installation I Electrical and Electronics Engineering Drawing Elements of Engineering Economics | | Social Studies Computer Aided Drawing Introduction to Microprocessors Basic Programmable Logic Control (PLC) Electrical Machines I Electrical Measurements and Measuring Instruments Transmission and Distribution of Electrical Power Repair and Maintenance of Winded Machine | |
| | Semester V (6 Months) | | Semester VI (6 Months) [COMMUNICATION] | |
| | Year Three | | | |
| | Switch Gear and Protection Power Electronics Electrical Machines II Product Design & Development Integrated Digital Electronics Repair & Maint. of Electrical & Electronics Appliances PC Organization | | Microprocessor System Design Fundamentals of Automatic Control Design, Est. & Cost. of Electrical & Electronics Installation Industry Based Major Project/ Organization and Management Entrepreneurship Development/Elective (One of the followings) [Micro Hydro/Instrumentation & Transducers/Electric Drives/ Renewable Energy Technology/Principle of Energy Conservation/Programmable Logic Control (PLC) Design/ Advanced Microprocessor & Interfacing Systems] | |

DIPLOMA IN ELECTRICAL ENGINEERING [3 YEARS]

On completion of Diploma in Electrical Engineering students will be able to understand the basic principles of electricity, operate electrical machines, repair household electrical appliances, electrical installation, supervise domestic and industrial electrical works, successfully handle power transmission distribution stations as well as able to train others.

JOB PROVIDERS

Nepal Electricity Authority, Nepal Telecom Authority, Nepal Air Lines, Radio Transmission Development Committee, Industries, government as well as private organization, private workshops, TV stations, FM stations, Technical Teaching Institutions, foreign employments etc.

CAREER OPPORTUNITY

Sub-Engineer, Marketing Executive, Supervisor, Civil Support Executive, Electrician, General Installer, Radio Transmission Controller, Printing Publisher, Instructor etc.



PROGRAM STRUCTURE

| | Semester I (6 Months) | | Semester II (6 Months) | |
|--|---|--|---|--|
| | Year One | | | |
| | Comm. Nepali I Comm. English I Engineering Mathematics I Engineering Physics I Engineering Chemistry I Engineering Drawing I Computer Application Workshop Practice | | Engineering Mathematics II Engineering Physics II Engineering Chemistry II Applied Mechanics Safety Rules and Regulation Workshop Practice II Engineering Drawing Principles of Electrical Engineering | |
| | Semester III (6 Months) | | Semester IV (6 Months) | |
| | Year Two | | | |
| | Computer Programming Basic Electronics Civil Construction & Survey Electrical & Electronics Engg. Material Electric Circuit Theory Principle of Management & Costing Electrical Installation I Electrical Engineering Drawing I | | Microprocessor & Microcontroller Computer Aided Drawing Electronic Devices & Logic Circuit Electrical Installation II Electrical Engineering Drawing II Electrical Machines I Electrical Measurements & Measuring Instruments Power Station | |
| | Semester V (6 Months) | | Semester VI (6 Months) | |
| | Year Three | | | |
| | Design, Est.& Costing of Electrical Installation Switch Gears & Protection Power Electronics Electrical Machines II Utilization of Electrical Energy Control System Components Electrical Maintenance and Repair I Minor Project | | Electrical Energy Audit & Conservation Project II Power System Operation & Maintenance Electrical Repair & Maintenance II Industrial Attachment Entrepreneurship Development Elective (One of the followings) [Micro Hydro/Instrumentation & Transducers/ Electric Drives/ Renewable Energy Technology] Transmission & Distribution of Electrical Power | |

DIPLOMA IN COMPUTER ENGINEERING [3 YEARS]

On completion of Diploma in Computer Engineering students will be able to understand the basic principles of computer engineering, handle, repair and maintenance, hardware devices, computer networking, graphics designing, database administration, computer programming, desktop publishing, software development data analysis, as well as able to train others.

JOB PROVIDERS

Nepal Electricity Authority, Nepal Telecom Authority, Nepal Air Lines, Radio Transmission Development Committee, Hospital, TV Stations, FM Stations, Technical Teaching Institutions, government as well as private organization, foreign employments etc.

CAREER OPPORTUNITY

Sub-Engineer, Supervisor, Marketing Executive, Computer Operator, Graphic Designer, Animator, Software Programmer, Computer Instructor, Desktop Operator, Web Designer etc.



PROGRAM STRUCTURE

| | Semester I (6 Months) | Semester II (6 Months) |
|------------|---|---|
| Year One | Communication Nepali Communication English Engineering Mathematics I Engineering Physics I Engineering Chemistry I Computer Fundamentals Engineering Drawing I Computer Programming in C | Engineering Mathematics II Engineering Physics II Engineering Chemistry II Digital Logic Object Oriented Programming in C++ Electrical Engineering Web Technology & Programming I |
| | Semester III (6 Months) | Semester IV (6 Months) |
| Year Two | Web Technology & Programming II Engineering Mathematics III Data Structure & Algorithm Database Management System Microprocessors Electronic Devices & Circuits | Data Communication System Analysis and Design Visual Programming Computer Architecture Computer Repair & Maintenance Computer Graphics Statistics & Probability |
| | Semester V (6 Months) | Semester VI (6 Months) [COMMUNICATION] |
| Year Three | Computer Networks Management Information System Applied Telecommunication Distributed Computing Operating System Cyber Security and Social Ethics Elective-I (GIS / CSM / IP / DP) Minor Project | Multimedia Technology Internet Technology Data Mining Elective- II (E-Governance/E-Commerce/Embedded System) Software Engineering Major Project |

TSLC IN ELECTRICAL ENGINEERING [18 MONTHS]

On completion of TSLC in Electrical Engineering students will be able to familiarize with basic electrical engineering, operate electrical machines, repair & maintain household electrical appliances, electrical installation, familiarize with electrical and electronics components related with electrical system work domestic and industrial electrical works under supervision.

JOB PROVIDERS

Nepal Electrical Authority, Radio Stations, Television Stations, Telecom Authority, Supermarkets, Construction Companies, Industries, Government as well as private organization, foreign employments etc.

CARRIER OPPORTUNITY

Sub-Overseer, Asst. Marketing Executive, Salesman, Foreman, Junior Electrician etc.

TSLC IN CIVIL ENGINEERING [18 MONTHS]

On completion of TSLC in Civil Engineering students will be able to provide services as a basic level technician in the field of civil engineering, conduct surveying and drawing a small scale irrigation structure & minor residential building, supervise civil construction works handle civil equipments.

JOB PROVIDERS

Irrigation Department, Housing Companies, Road Construction Companies, Bridge Construction Companies, Civil Construction Companies, Consulting firms, Hospital, Supermarkets Government as well as private organizations foreign employments etc.

CARRIER OPPORTUNITY

Sub-Overseer, Salesman, Asst. Surveyor, Foreman etc.



One Year and Six
Months OJT

- Applied Math
- Electrical Installation (Domestic, Industrial & Commercial)
- Engineering Drawing and Computer Application
- Motor Installation & Control System
- Basic Electronics

- Bench Work
- Repair & Maintenance
- Electro Technology
- Power Distribution System
- Entrepreneurship Development



One Year and Six
Months OJT

- Computer Aided Drafting
- Construction Technology
- Engineering Surveying
- Estimating, Costing & Supervision
- Water Supply, Sanitary and Irrigation Engineering

- Construction Material
- Engineering Drawing
- Entrepreneurship Development
- Road & Trail Bridge
- Workshop Practice

FACILITIES & AMENITIES

Class Rooms

Each and every class rooms are spacious and airy. They are equipped with the latest training aids which makes learning at MREC truly stimulating experience.

Library

Institute's library is fully equipped with numerous course text books, reference books, notes, manuals, magazines, news paper, competitive examination books etc. At present, the library contains 4000 books. The library along with reading room can accommodate 50 students at a time. The reading room is open from 9:00 AM to 4:30 PM every working day.

Laboratories

The college has highly equipped, sophisticated, and resourceful laboratories for physics, chemistry, electrical, mechanical, electronics, workshop and computers to conduct practical classes. The computer lab has provision for the internet system which students can use during the scheduled and spare time.

Teaching Methodology

Our college has adopted advanced teaching learning methodology. Its educational activities are conducted by highly qualified teaching faculty, supported and supplemented by visiting professionals of strong academic and professional backgrounds. Teachers are entirely student-centered and lectures are supported by audiovisual aids, charts, models, and multimedia projectors.

ACADEMIC COUNSELING & PLACEMENT CELL

The academic counseling and placement cell at MREC facilitates the process of academic counseling and placement of students graduating from the college. Counselors are available to assist with academic career and personal issues. Through the process of counseling, students are guided to discover their personal abilities in working towards specific goals. Academic counseling and placement cell co-ordinate with various national and international companies, trade houses, consultancies, corporate houses etc.

EXAMINATION SYSTEM

There is the established academic calendar and subsequent final exams (Theory/Practical) taken by CTEVT in all semesters.

Periodic assignments, viva, field works, Report writing, Minor project and project works are performed for internal evaluations.

Diploma level includes presentation of project work as a part of final examination.

EVENTS

Shree Saraswati Puja

Saraswati Puja was celebrated during 16th Magh, 2076. Immersion day was grand finale and celebrated with gusto and fervor irrespective of the religion and faith of the participants. This festival reflected the harmony among the student community.

Quiz Contest

As a part of Annual Function, a quiz contest was organized among teams from all Diploma & TSLC faculties. The winners were awarded with prizes.

Corporate Interactions

In today's highly competitive world, it is a must for students to have exposure to the outside world, preparing them for the challenges that they will face in their field. At all levels, students are given exposure to the industry through lectures, seminars, study tours, industrial visits, and so forth.

Sports

Different types of sports like badminton, mini marathon, long jump, high jump etc were organized from 2076-12- to 12- among participant's students from all Diploma/TSLC levels. The winners were awarded with prize.

Prize Distribution & Orientation Program

As previous years, on 13 th Mangsir, 2076 Prize Distribution & Orientation Program was held at MREC, Janakpur.

Blood Donation

Blood Donation Program was held on 2074/08/29 at our own premises. In that Program, our students, faculty members, staffs & management team were participated.

MREC BUILDINGS



MREC at a Glance



College

OPENS ITS DOORS

Open days

SUNDAY to FRIDAY (6 am to 4 pm)

The **MADHYAMANCHAL REGIONAL ENGINEERING COLLEGE** (MREC) on Janakpur's Ramanand Chowk offers Sub-Engineering, Sub-Overseering and Short Term Training Programs designed by CTEVT, Nepal.

The college open days gives you the chance to discover what a career in Electrical Engineering, Electrical & Electronics Engineering, Civil Engineering and Computer Engineering entails, the knowledge and skills you'll need to succeed and also gives you the opportunity to inspect the educational and training facilities.

We'll not only open our doors to you, but also open your eyes to an existing career with endless scope for advancement and international opportunities.

Achieve the Impossible at....

MADHYAMANCHAL REGIONAL ENGINEERING COLLEGE

(Affiliated to CTEVT, Nepal)

Dashrathnagar, Ramanand Chowk, Janakpur-08, Dhanusha, Nepal

Tel. : 977-41-521991, Fax : 977-41-527122, Post Box No. : 48

Email : mrec.jnk@gmail.com Website : www.mrec.edu.np



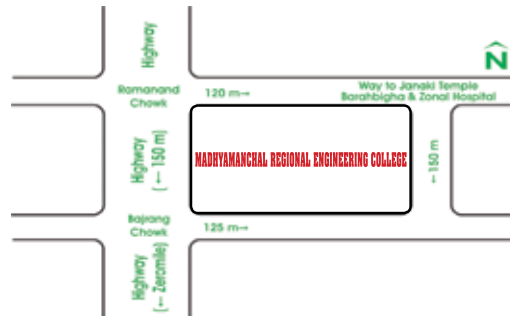
ADMINISTRATION TEAM

| | |
|------------------------|-----------------------|
| Mr. Sanjay Kr. Sah | MD |
| Er. Suresh Mishra | Principal |
| Mr. Navin Kumar | Administrative Chief |
| Er. Birendra Pd. Sah | Academic Co-ordinator |
| Er. Sanjeev Kr. Shah | Academic Advisor |
| Mr. Chandar kr. Paswan | Accountant |
| Er. Sanjay Kr. Yadav | Store In-charge |
| Miss. Puja Kumari | Librarian |
| Miss. Pinkey Chaudhary | Receptionist |

FACULTY MEMBERS

| | |
|----------------------------|-----------------|
| Mr. Navin Kumar | MBA |
| Er. Sanjay Kr. Yadav | BE (Mechanical) |
| Er. Birendra Pd. Sah | BE (Computer) |
| Er. Chandrasekhar Adhikari | BE (Computer) |
| Er. Rajnish Jha | BE (Computer) |
| Er. Ram Kishor Patel | BE (Computer) |
| Er. Roshan Kr. Jha | BE (Computer) |
| Er. Sanjeev Kumar Shah | MCM |
| Er. Nripesh Ranjan Sah | BE (Civil) |
| Er. Raja Ram Yadav | BE (Civil) |

| | |
|--------------------------|----------------------------------|
| Er. Rajib Chandra Pandit | BE (Electrical & Electronics) |
| Er. Suresh Mishra | BE (Electrical & Electronics) |
| Er. Afzal Hasan | BE (Electronics) |
| Er. Sanjip Kr. Yadav | BE (Electronics & Communication) |
| Er. Asheswar Yadav | BE (Electrical) |
| Er. Manish Sharma | BE (Electrical) |
| Er. Mukesh Kr. Yadav | BE (Electrical) |
| Er. Nitesh Karn | BE (Electrical) |
| Er. Pankaj Chaudhary | BE (Electrical) |
| Er. Raj Kishor Yadav | BE (Electrical) |
| Mr. Dev Kumar Lal Das | MSc (Physics) |
| Mr. Bimal Yadav | MSc (Chemistry) |
| Mr. Dilip Gupta | MEd. (Math) |
| Mr. Dilip Kr. Yadav | MSc (Math) |
| Dr. Binod Sah | PhD (English) |
| Mr. Birendra Ray | MA (English) |
| Mr. Hem Pushkar Bhandari | MA (Nepali) |
| Mrs. Kanchan Jha | MEd (Nepali) |
| Mr. Pramod Kumar Shah | DComE |
| Mr. Rabindra Kr. Mandal | DCE |
| Mr. Madan Kr. Adhikari | DEE |
| Mr. Raushan Kr. Singh | DEE |
| Mr. Prem Chandra Jaiswal | DElxE |



Location Map



Achieve the Impossible at....

MADHYAMANCHAL REGIONAL ENGINEERING COLLEGE

(Affiliated to CTEVT, Nepal)

Dashrathnagar, Ramanand Chowk, Janakpur-08, Dhanusha, Nepal

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