NEPAL ELECTRICITY AUTHORITY

DISTRIBUTION & CONSUMER SERVICES DIRECTORATE

A YEAR BOOK

FISCAL YEAR 2081/82 (2024/25)

11 kV line maintenance works in Bhulbhule, Lamjung District

Sharkhu Substation Manang

CONTENTS

MESSAGE FROM THE MANAGING DIRECTOR

It is with great pleasure that I extend my warm appreciation towards the Distribution and Consumer Services Directorate (DCSD) for publication of this annual report F.Y. 2081/82, which reflects the remarkable progress, commitment, and performance of the Directorate over the past year.

The role of DCSD remains central to NEA's mission of delivering reliable, accessible, and quality electricity services across the country. From strengthening distribution infrastructure to ensuring timely consumer service, the Directorate has consistently demonstrated professionalism, innovation, and dedication in fulfilling its responsibilities.

In a time where demand for efficient and consumer-focused services continues to rise, the Directorate's efforts in adopting modern technologies, expanding rural electrification, and improving service delivery are truly commendable. The hard work of the personnel and management of DCSD has been instrumental in building trust among our consumers and driving NEA's growth at the grassroots level.

This annual publication serves not only as a record of achievements but also as a reflection of the values that define NEA commitment, transparency, and progress. It will be a valuable document for stakeholders, policymakers, and the wider community to understand our direction, challenges, and accomplishments.

On the occasion of NEA's 40th anniversary, I congratulate the entire DCSD team for their continued efforts and this successful publication. Let this inspire us all to aim higher in our collective journey towards a brighter, more sustainable and reliable energy future.

With best wishes for continued success,

.....

Hitendra Dev Shakya
Managing Director

MESSAGE FROM THE DEPUTY MANAGING DIRECTOR

As we reflect on another year of determined efforts and measurable progress, I am pleased to recognize the vital role played by the Distribution and Consumer Services Directorate in advancing the core mission of NEA. Our commitment remains focused on providing reliable, high-quality, and accessible electricity services to the people of Nepal.

The fiscal year 2024/25 once again highlighted the dedication and professionalism of the Directorate, as seen through significant achievements in both technical and financial performance. NEA now proudly serves more than 6.17 million consumers across the country. The impact of our services in lighting homes, enabling businesses, supporting industries, and empowering communities continues to inspire our journey forward.

In the last fiscal year, notable progress was made in expanding and reinforcing the distribution infrastructure. A total of 15 new 33/11 kV substations with a combined capacity of 140 MVA were completed and substation with total capacity of 297.8 MVA were upgraded. Similarly, 3,151 distribution transformers were installed to enhance local reliability. The network was further strengthened with the addition of 569.30 circuit kilometers of 33 kV lines, 2,455.77 circuit kilometers of 11 kV lines, and 6,312.75 circuit kilometers of 400 or 230 volt lines.

The nationwide distribution network now includes 211 nos of 33/11 kV substations, 48,625 distribution transformers, 8,145.22 circuit kilometers of 33 kV lines, 53,131.32 circuit kilometers of 11 kV lines, and 156,790.13 circuit kilometers of 400 or 230 volt lines. During the last fiscal year, 248,253 new consumers were connected to the distribution system, increasing the total number of consumers to 5,707,528. This represents a five percent growth compared to the previous year. Including community users, the total number of consumers reached 6.17 million, reflecting an overall growth of more than four percent. Energy sales reached 11,288 GWh, generating revenue of NRs. 109.22 billion. This marks an annual growth of more than ten percent in both energy sales and revenue. Collection efficiency remained strong at 97 percent.

In the fiscal year, the loss was recorded at 10.39 percent. Several factors contributed to this, including

aging and overloaded infrastructure in urban centers, long feeder lengths in rural areas, technical constraints in geographically challenging terrain, unauthorized electricity usage in certain localities, and delays in right-of-way acquisition and infrastructure upgrades. These issues have placed pressure on system performance and highlight the need for accelerated investment and reform.

To address these challenges, we are actively implementing measures such as distribution system automation, installation of smart meters, upgrading of substations, and targeted reinforcement of weak segments in the network. These efforts aim to improve both technical efficiency and the overall quality of service.

We understand that the satisfaction of our consumers is the true measure of success. Challenges like power interruptions, voltage fluctuations, and service delays must be resolved. Our approach for the future is based on delivering quality, reliable, and responsive services through modern technology, improved operations, and a motivated workforce.

I extend my sincere appreciation to the entire team of the Directorate for their dedication and valuable contributions. Your efforts are directly aligned with the growth and progress of our nation. To our esteemed consumers, thank you for your continued trust and cooperation. We remain committed to providing safe, affordable, and uninterrupted electricity to all.

With warm regards,

.....

Dirghayu Kumar Shrestha
Deputy Managing Director

Distribution and Consumer Services Directorate

Dirghayu Kumar Shrestha
Deputy Managing Director

Achyut Babu Ghimire
Director
Planning and Technical Service Department

Shreeram Pokharel
Director
Smart Metering and Automation Department

Munindra Thakur
Director
Community and Rural Electrification Department

Dolnath Kandel
Joint Director
Administration Division

Sadhav Bhandari
Joint Director
Finance Division

Prajwol Khadka
Chief
Procurement Management Division

Distribution and Consumer Services Directorate

INTRODUCTION

Distribution and Consumer Services Directorate (DCSD) under Nepal Electricity Authority (NEA) is responsible for overall management of electricity distribution network and consumer services. Management of distribution network include planning, execution, upgradation, rehabilitation, operation and maintenance of electricity distribution networks and distribution substations up to 33 kV voltage level. Similarly, the consumer services activities include consumer connection, grievances management, meter reading, energy billing and revenue collection. DCSD is providing the consumer services to its 5,707,528 consumers through its 129 distribution centers(DC) throughout the country.

DCSD is lead by the Deputy Managing Director (DMD) and has three distinct departments at central level namely:

i. Planning and Technical Services Department (PTSD)
ii. Community and Rural Electrification Department (CRED)
iii. Smart Metering and Automation Department (SMAD)

Apart from these three departments, DCSD comprises seven numbers of provincial offices located in seven provinces of the country and additional two division offices. These provincial offices are:

i. Koshi Provincial Office, Biratnagar, ii. Madhesh Provincial Office, Janakpur, iii. Bagmati Provincial Office, Kathmandu, iv. Gandaki Provincial Office, Pokhara, v. Lumbini Provincial Office, Butwal, vi. Karnali Provincial Office, Surkhet, and vii. Sudurpaschim Provincial Office, Attariya.

Similarly, the division offices are:

i. Bagmati Province Division Office, Hetauda and ii. Lumbini Province Division Office, Nepalgunj

Following divisions exist at central level under the directorate,

i. Administration Division
ii. Finance Division
iii. Procurement Management Division

Among the above offices, central departments are responsible for planning and preparation of distribution system expansion programs, execution of rural electrification including construction of substation up to 33 kV voltage level throughout the country including the area of community electrification, implementation and operation of smart metering and automation, computerized billing, GIS mapping of distribution network, control and operation of the distribution system.

Likewise, the division offices of central level are responsible for planning and managing human resources under the DCSD, planning yearly operation and maintenance budget, capital budgeting, procurement of goods and materials required for operation and maintenance of distribution network of NEA throughout the country.

The Provincial and Division offices act as bridging role between DCSD and distribution centers and the functions of these offices are operation, maintenance and expansion of the distribution system up to 33 kV voltage level and monitoring of the consumer services like new consumer connections, meter reading, billing and revenue collection vide the distribution centers throughout the country. In addition, these offices look after operation and maintenance of off-grid small hydropower plants. The Provincial/ Division offices are headed by the Director/Chiefs. The technical division under the Provincial/Division office is headed by the manager who looks after:

- Construction of new 33/11 kV substation and new 33 kV lines
- Operation and maintenance of 33/11 kV substation and 33 kV lines
- Execution of rural electrification activities
- Operation and maintenance of small hydropower plants

Similarly, account and administrative sections supports the

Provincial/Division chiefs for finance and administrative related matters.

DCSD is providing services to its valued consumers through 129 number of distribution centers and this directorate is the largest directorate in terms of number of staffs which accounts for approximately 67.23% of total NEA staffs.

Divisions and Section at Directorate Level

Administration Division

The Administration Division is mainly responsible for human resource management, general administration, coordination with distribution centers and concerned Department/Provincial/ Divisional offices, implementation of management decisions and coordination with other NEA offices. The total numbers of approved position in DCSD are 8,390 out of 11,433 total approved position of NEA. Whereas the numbers of permanent staffs working at DCSD by the end of F.Y. 2081/82 are 5,680 out of 8,448 numbers of total NEA permanent staffs.

Employees are scheduled for routine trainings, inspections and testing jobs in and outside the country.

Vehicle management and supervision is also one of the important and challenging work for administration division in order to provide prompt and efficient service delivery. There are 595 SUV/Pickup Trucks, 111 Crane/ Trucks, 483 Two-wheelers and 39 Auto rickshaw being used by different offices under the directorate to provide service to consumers.

Safety is the most imperative factor for safe electrical operation. Being the big institution and large numbers of employee, safety of personnel and equipment is a big challenge for NEA. In the F.Y. 2081/82, 51 people and 36 animals lost their life due to various electricity accidents. During this period, 42 people got injured due to various electricity mishaps. DCSD has distributed Personal Protective Equipment (PPE) and other safety equipment to minimize the accidents and injuries.

Finance Division

The Finance Division is responsible for supervising, monitoring and control of financial transaction in the course of daily business activities. This department comprises of two sections

- Account Section
- Revenue Section

Account Section is assigned with the duties of budgetary control, budget preparation and cash flow management whereas Revenue Section analyzes, consolidates and prepares the monthly and annual revenue statements.

Procurement Management Division

The Procurement Management Division (PMD) is responsible for the procurement/management of materials commonly used in the distribution system like Power and Distribution Transformers, Energy Meters, Poles, Instrument Transformers (CT, PT), Cable, Insulators and Hardwares etc. Materials are procured through International Competitive Bidding (ICB)/National Competitive Bidding (NCB) procedures. It has a central store in Hetauda where most of the procured materials are stored and procured materials are distributed as per the requirements of Distribution Centers.

List of items procured by Procurement Management Division in F.Y. 2081/82

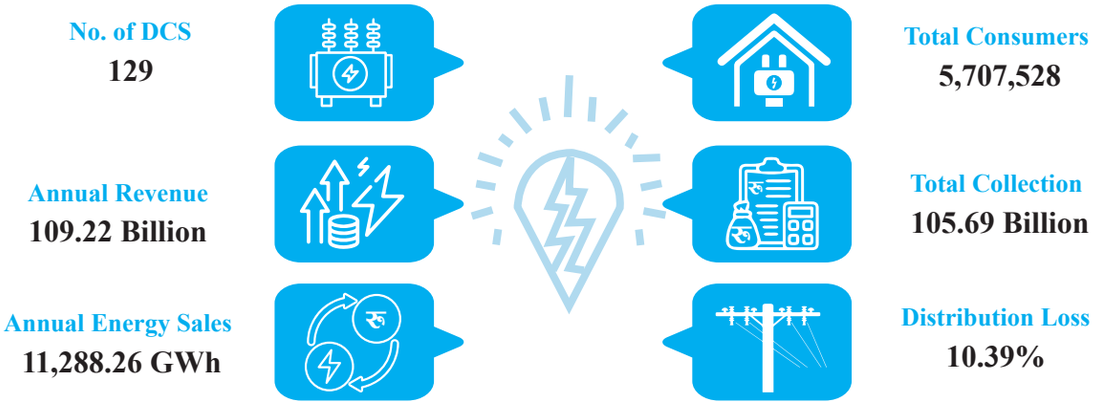
SN	Item	Unit	Total Quantity	Status
1	33 kV Pin Insulator, 11kV Disc Insulator, Shackle Insulator & D-Iron)	Sets	441,000	Contract signed
2	Load Break Switch (400 A & 630 A)	Nos	350	Contract signed
3	High Security Sealing materials (Seal Plier, Ferrules, sealing wires)	Pkts	3,480	Contract signed
4	Steel Telescopic Poles (13m)	Nos	25,000	Completed
5	Three Phase Distribution Transformers (25kVA, 50kVA,100kVA & 200kVA	Nos	1,400	Bid Evaluation in progress
6	Dropout Fuse Cut out and Surge Arrester	Sets	Do Fuse 22,500 & Surge Arrester 15,000	Partially Delivered

Monitoring and MIS Section

This section deals with following major activities:

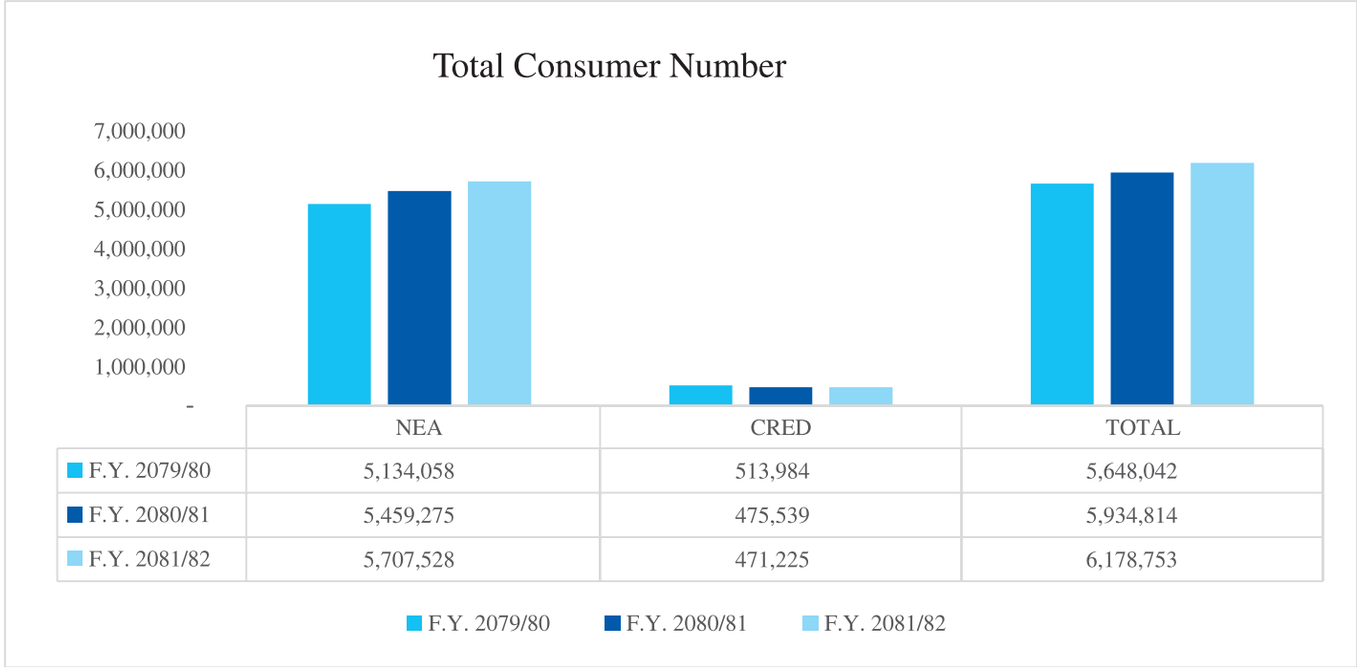
- Preparing Annual Rural Electrification Budget for all Provincial Offices and process further for approval.
- Collecting all the decisions from DCSD and forwarding them to Departments/Provincial Offices/Division Offices for execution.
- Preparing programs for all Provincial Offices and process approval from concerned authorities.
- Collecting quarterly, yearly progress reports from all Provincial Offices and putting them forward to concerned authorities.

HIGHLIGHTS OF THE DIRECTORATE



Statistics of Consumers

Including consumers of Communities under Community and Rural Electrification Department (CRED), in the F.Y. 2081/82, the total number of NEA consumers reached to 6,178,753 from the number 5,934,814 of the last year with an increase of 4.11%. NEA is providing electricity to 471,225 consumers through 420 Community under CRED upto this F.Y. 2081/82.



	NEA	CRED	TOTAL
F.Y. 2079/80	5,134,058	513,984	5,648,042
F.Y. 2080/81	5,459,275	475,539	5,934,814
F.Y. 2081/82	5,707,528	471,225	6,178,753

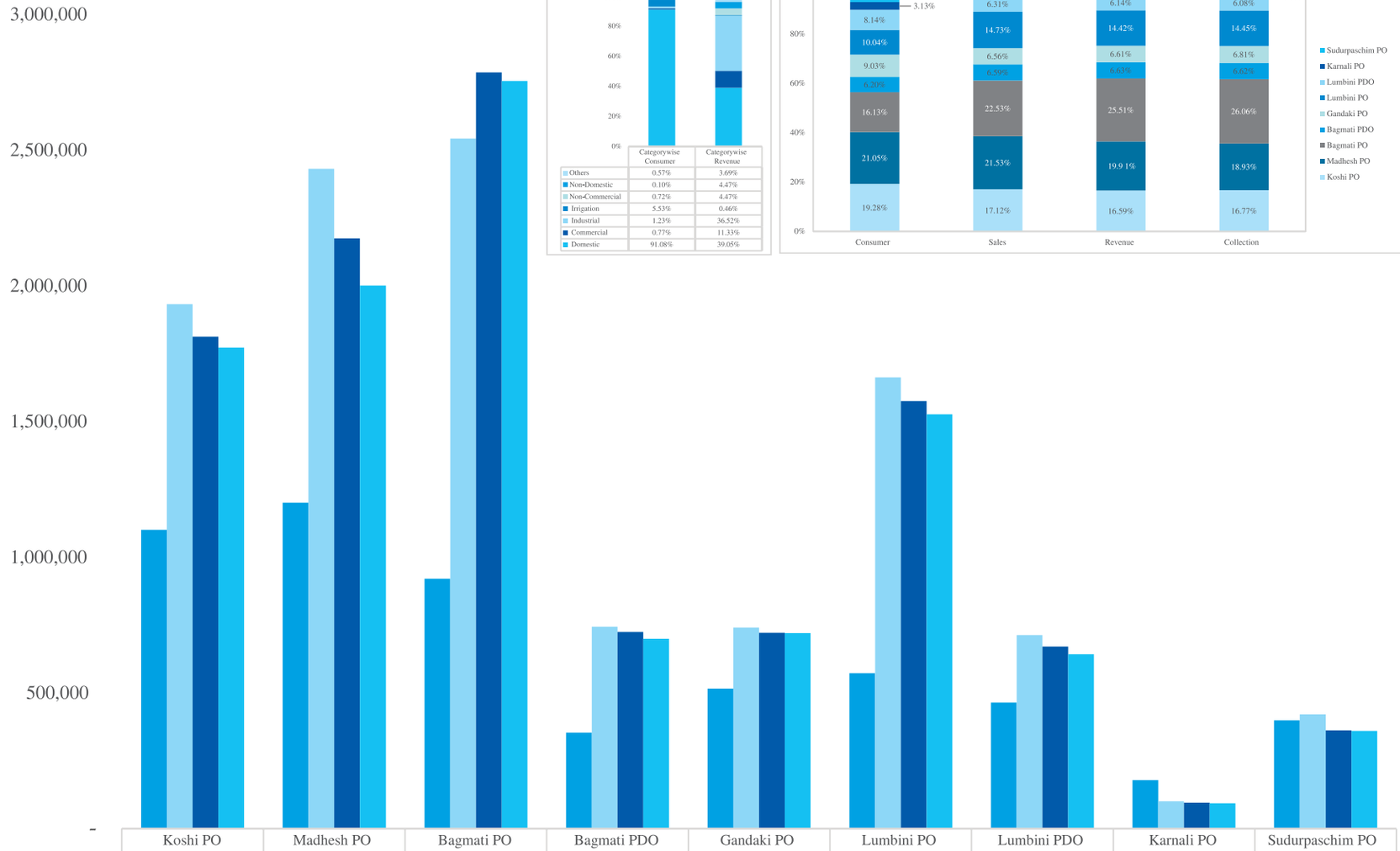
Statistics of Energy Sales

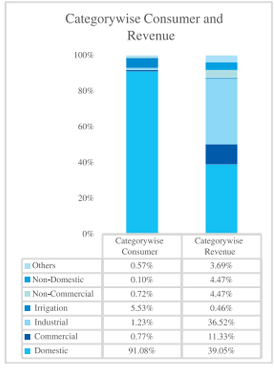
In the F.Y. 2081/82, DCSD sold 11,288,268 MWh electricity which is 9.84% higher than sales of previous F.Y.

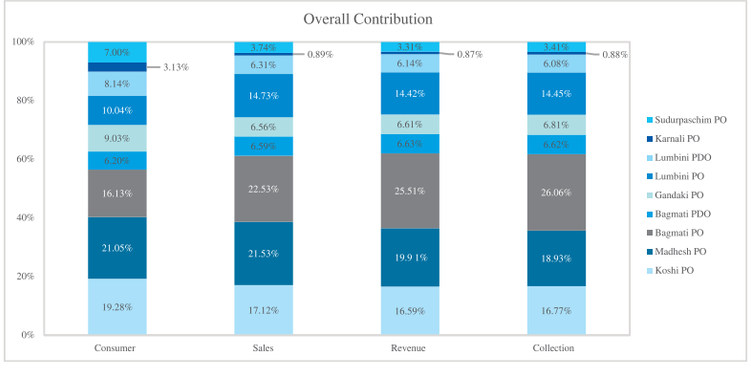
Statistics of Revenue

In the F.Y. 2081/82, DCSD collected the revenue of NRs.. 109.22 billion which is 9.62% higher than revenue of previous F.Y.

Province wise Consumer, Sales, Revenue and Collection







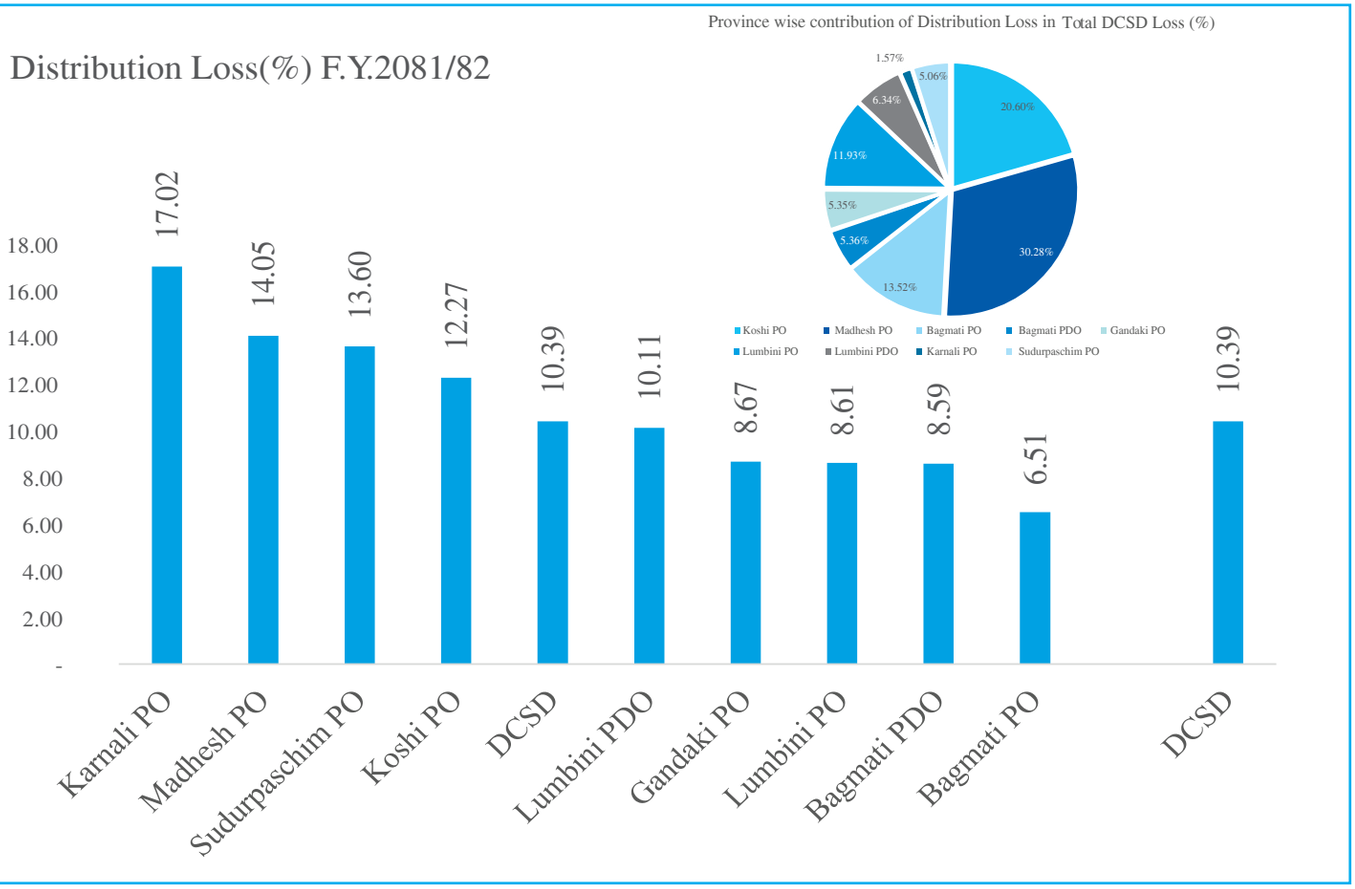
	Koshi PO	Madhesh PO	Bagmati PO	Bagmati PDO	Gandaki PO	Lumbini PO	Lumbini PDO	Karnali PO	Sudurpaschim PO
Consumer Number	1,100,644.00	1,201,248.00	920,520.00	353,907.00	515,596.00	572,887.00	464,544.00	178,794.00	399,388.00
Sales (Mwh)	1,932,924.93	2,430,751.28	2,543,130.36	743,948.00	740,425.60	1,662,472.33	712,597.25	100,399.13	421,619.98
Revenue (Rs in 0000')	1,812,017.75	2,174,647.85	2,786,320.52	724,588.00	722,014.44	1,574,757.42	670,764.81	95,274.48	361,762.77
Collection (Rs in 0000')	1,772,189.13	2,000,592.01	2,754,092.95	699,438.70	720,002.26	1,526,889.84	642,392.16	93,342.80	360,379.09

Collection

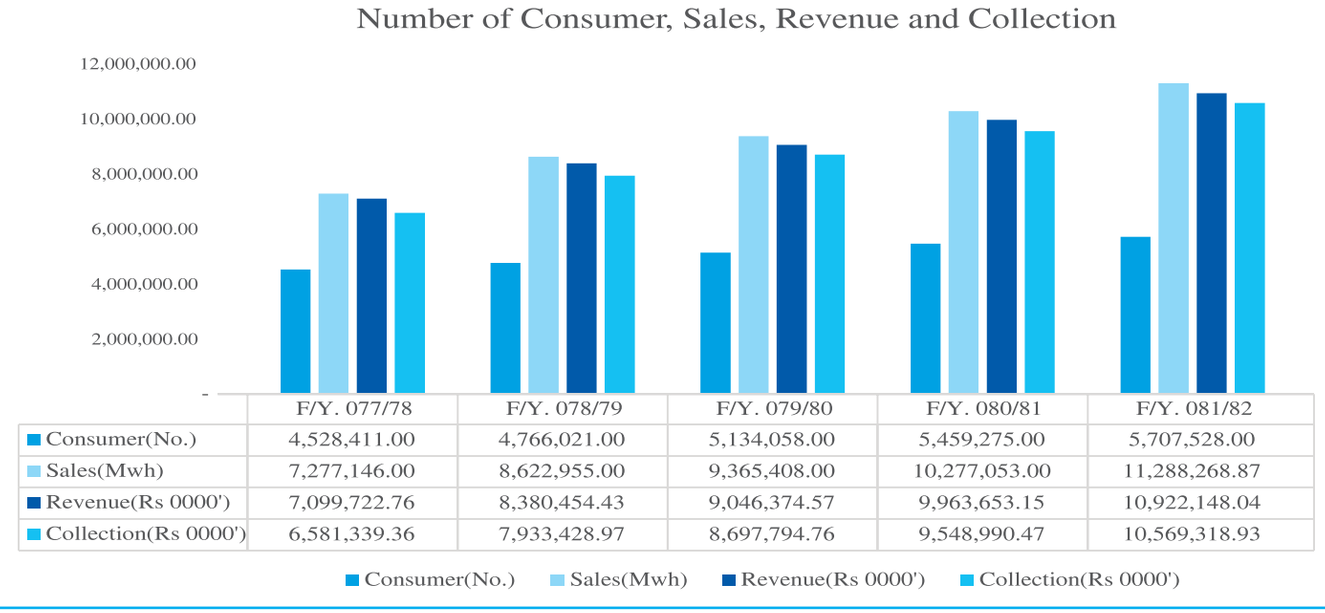
In the F.Y. 2081/82, DCSD collected the revenue of NRs.. 105.69 billion which is 10.69% higher than collection of previous F.Y.

Distribution Losses

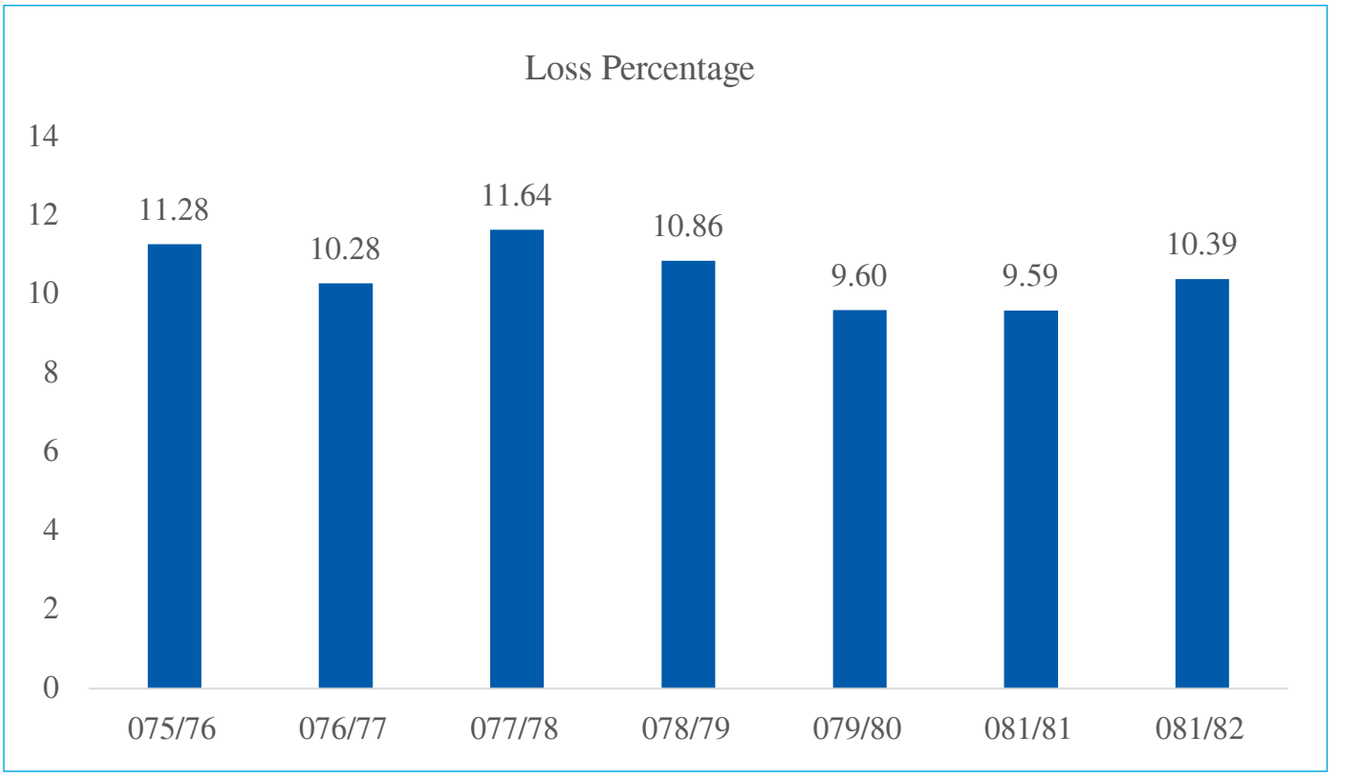
In the F.Y. 2081/82, the overall distribution loss of DCSD is 10.39%. Out of the total loss of DCSD, Madhesh Provincial Office shares the highest portion of loss with 30.28 percentage among all provinces.



Comparison of Sailent Features of Last Five Years of DCSD



	F/Y. 077/78	F/Y. 078/79	F/Y. 079/80	F/Y. 080/81	F/Y. 081/82
Consumer(No.)	4,528,411.00	4,766,021.00	5,134,058.00	5,459,275.00	5,707,528.00
Sales(Mwh)	7,277,146.00	8,622,955.00	9,365,408.00	10,277,053.00	11,288,268.87
Revenue(Rs 0000')	7,099,722.76	8,380,454.43	9,046,374.57	9,963,653.15	10,922,148.04
Collection(Rs 0000')	6,581,339.36	7,933,428.97	8,697,794.76	9,548,990.47	10,569,318.93



Consumer Service Indices

Consumer Service Indices	F.Y 2080/081	F.Y 2081/082
No. of Consumer per DCSD employee	945.00	1,005 .00
Annual Unit sales per consumer (kWh)	1,873.34	1,913.64
Annual Revenue per consumer (Rs.)	18,250.87	19,136.39
Annual Domestic Unit consumption per domestic consumer (kWh)	862.18	912.39
Annual Domestic Revenue per domestic consumer (Rs.)	7,687.25	8,204.50
Operation and Maintenance cost per kWh (Rs.)	1.15	1.74
Average Revenue per kWh (Rs.)	9.74	9.68
Per capita consumption * (kWh)	350.67	394.69
Distribution Loss (%)	9.59%	10.39%

** Per capita consumption is calculated using sales of NEA only.*

From F.Y. 2080/81 to F.Y. 2081/82, DCSD made progress in few parameters and need substantial efforts in improving others. The per capita electricity consumption of F.Y. 2081/82 is 394.69 kWh. Annual unit consumption per consumer has increased from 1,873.34 in F.Y. 2080/81 to 1,913.64 in F.Y. 2081/82 which is very important from energy consumption scenario.

The revenue earned per consumer has increased from NRs. 18,250.87 to NRs. 19,136.39 in F.Y. 2081/82. However, revenue earned per kWh has decreased from NRs. 9.74 to NRs. 9.68 in F.Y. 2081/82. The major reason for the decrement in above indices are reduction in overall tariff of NEA by 9-10 % and rule out of dedicated tariff for dedicated consumers.

In last fiscal year, consumption of energy increased by 9.84% .

Substantial improvements need to be made by DCSD. The per capita domestic consumption was 912.39 units in F.Y. 2081/82. The operation and maintenance cost recorded was NRs.1.15 per kWh in F.Y. 2080/81 which increased to NRs. 1.74 in F.Y. 2081/82. Higher operation and maintenance cost affected the profit margin of NEA, so it needs to be

minimized in upcoming days. Similarly, commercial and industrial consumer number with consumer capacity has to be increased by encouraging potential consumers and supplying them required amount of electricity. Average per kWh revenue was priced NRs. 9.68, which needs considerable improvement.

Programs and Activities

In F.Y. 2081/82, 569.30 ckt-km of 33 kV Line, 2,455.77 ckt-km of 11 kV line, 6,312.75 ckt-km of 0.4/0.23 kV line, 3,151 numbers of distribution transformers altogether 338 MVA capacity and 15 numbers of 33/11 kV Distribution Substation with the total capacity of 140 MVA have been added in the distribution system. Likewise, 297.8 MVA substation capacity has been added through the upgradation of the substation across the country. Along with the addition of these distribution infrastructures, total length of 33 kV, 11 kV and 0.4/0.23 kV line became 8,145.22 ckt-km, 53,131.32 ckt-km and 156,790.13 ckt-km respectively. Similarly, total numbers of 33/11 kV substations became 211 with total capacity of 2,999.95 MVA and total numbers distribution transformers comes to 48,625 with total capacity of 4538.18 MVA in the distribution system.

With continuous efforts and performance of NEA's staffs for loss reduction, the distribution system loss has been registered to 10.39% from 9.59% of last year's loss value for F.Y. 2081/82.

DCSD has been actively propelling loss reduction campaigns through theft control by meter resealing, equipment seizes, discouraging hooking activities, etc. During such operation, Madhesh Provincial Office has disconnected highest number of lines among the provincial offices with 23.95% disconnection in total with 36,978 numbers of line disconnection and shares 15.11% of line disconnection amounting NRs. 1052.96 million out of the total amount of NRs. 6,968.17 million throughout the country.

All province/division offices have been engaged in reducing electricity pilferage and Madhesh Provincial Office has recorded 4,242 counts of electricity pilfering out of total 6,473 numbers around all provinces, with a sum of NRs. 29.96 million pilfering amount out of NRs. 60.48 million in total pilferages and has recorded the most pilferage units of 2.77 million out of 4.56 million pilferage units across the country.

11 kV line maintenance works in Bhulbhule, Lamjung District

As the part of the expansion and reinforcement of distribution system, many programs, projects and activities were undertaken by departments and provincial/divisional offices in F.Y. 2081/82 to expand and improve supply quality and service delivery.

DCSD has given its most priority for reliable and quality supply of electricity. In this regard, activities like upgrading of the distribution network, construction of new feeders, upgrading of distribution transformers, and addition of new transformers in the system have been initiated. DCSD is aware of GoN policy of reducing fossil fuel consumption by increasing the use of electricity in cooking, transportation and in industrialization which would stress in distribution network reinforcement and upgradation for quality and reliable supply.

Further, in order to provide electricity access to all as envisioned by GoN's plan and policy, multiple projects are working for electrification of remaining area of the country. Contractors are working in the designated areas after the award of contracts. All other remaining area where electrification through national grid is not feasible, NEA is working to electrify those areas through alternative approaches.

DCSD has actively promoted the online payment of the electricity bills through various merchants. In the fiscal year 2081/82, there were 18,436,945 online transactions made and NRs. 34,326,695,600.55 collected through those transactions.

Felicitation of High-Consuming Consumers

NEA has initiated a program to recognize and felicitate the top ten consumers at the central, provincial, and distribution center levels who consistently pay their tariffs. These consumers are categorized as Most Important Consumers (MIC), Very Important Consumers (VIC), and Important Consumers (IC), respectively.

Deputation of Safety Engineer/Protection and Relay Engineer

NEA has begun to appoint dedicated engineers for safety, as well as for protection and relay functions. Each provincial office has designated an engineer to be responsible for both safety and relay/protection engineering.

Safety:

Training of Occupational Health and Safety (OHS) has been made mandatory to all the technical staffs specially lineman and substation operators. OHS trainings have been conducted in provincial offices, division offices and in distribution centers to include all the needy staffs. Substantial numbers of staffs have been trained during the reporting period. Training certificates of two (2) years validity have been issued to all the trained staffs authorizing them to work in NEA distribution network.

OHS training shall be made compulsory to all the personnel working in NEA distribution network including the personnel of contractors in coming days. Before expiry of the training certificates, the staffs need to go through the refreshment OHS training for its renewal.

Giving high priority to the safety of the personnel and

Safety day program organize in Inaruwa DC

to enhance safe working practices, DCSD has provided adequate safety equipment, tools and PPE (safety for head, hand, body, leg and safety against fall) to the concerned staffs from the distribution center. Further, the arrangement of high voltage safety equipment as well as high voltage testing equipment have been arranged which will be helpful to minimize the outage of power supply as well as to fortify the safety of personnel.

NEA marked Chaitra 26 as "Electrical Safety Day" organizing an interaction program in collaboration with Society of Electrical Engineers (SEEN). Provincial offices, divisional offices and distribution center offices also marked the day as safety day organizing interaction program with employees, displaying safety related banners, posters, pamphlets etc. to express NEA commitment on Electrical Safety as well as to create awareness on.

Enhancing Reliability through Live Line Maintenance

DCSD is taking a major leap forward in modernizing its maintenance practices by introducing Live Line Maintenance (LLM) – a technique that allows maintenance, testing, and repairs on energized electrical systems without interrupting power supply. As part of this initiative, NEA is procuring Insulated Aerial Work Platforms (IAWP) with a working height of over 17 meters and a side reach of 12.5 meters, along with advanced Live Line Maintenance tools. The equipment will be used for fault rectification on 11kV and 33kV distribution systems using the rubber glove method, ensuring safety and operational continuity. This pilot project-initially deploying two complete sets in the Urban Terai Region and Kathmandu-aims to reduce power outages, enhance customer satisfaction, and extend equipment lifespan, setting a new benchmark for utility maintenance in Nepal.

Quality Control and Monitoring:

Quality Control and Monitoring Unit has been established in each department, provincial office and division office to focus on strict quality control and monitoring for works which include expansion/construction and augmentation of electrical network, substation, building and associated civil works. In this context, the Quality Control and Monitoring Unit is primarily focused for the quality control on construction of line, substation, building and associated civil works, monitoring of different construction activities, safe working practices and other relevant activities as required by the concerned offices.

In order to ensure the quality of the procured distribution line materials and equipment, DCSD is going to establish an Acceptance Testing Laboratory in Kharipati, Bhaktapur, where most of the electrical equipment/line material up to 33 kV Voltage level can be tested with the similar facility of an international accredited laboratory.

Norms, Standard and Guidelines

DCSD has prepared and issued the standard design and drawing of the office building for distribution centers. Two types of standard design of the building are available having two types of foundations for each type of buildings. The standard design and drawing of these building will ease the construction works, ensure quality of the construction, optimize cost of the building, possess uniformity in look and remain as an icon for NEA Distribution Centers.

DCSD has prepared Safety Guidelines for construction works and is also preparing Distribution Construction Standard, Construction Guidelines, Operation and Maintenance Guidelines. Norms for the electrical construction works as well as repair and maintenance works have been revised and implemented keeping in mind of working at night and at off peak hours. Construction works and schedule maintenance works will be done at night in the city areas to the extent possible which would minimize disturbances to the public and energy not served.

In order to standardized the specifications and reference rates of materials; DCSD prepared the standard specification and reference rates of these materials which are mostly used in distribution centers and has been circulated for implementation after getting approval from the NEA management.

DCSD has further been working on standardization of specifications as well as rates of the materials used in distribution system for upcoming fiscal year.

Grievance Handling and No-Light Service:

DCSD is always committed to improve its service delivery as consumer satisfaction is our first priority. To minimize consumer complaints regarding no-light services and address grievances promptly, call centers have been established for seven Provincial Offices and the Hetauda Divisional Office, with ongoing efforts for the Lumbini Division Office. Toll free number 1150 has been assigned for reporting the grievances. Grievances can be recorded by voice call and through messages as well. We are getting positive feedback from the customers about service delivered from call center.

Reliable and Quality Supply:

Reliable and quality supply is basic requirement for increasing electricity demand. Accordingly, DCSD has set the objective of ensuring reliable and quality supply which is fundamental right of our valued consumer. In order to attain this objective, NEA has planned many programs and projects in year 2024/25 including:

- **Upgrading of 33/11 kV substations**
  Upgrading of 33/11 kV substations will be implemented by the 33/11 kV Substation Rehabilitation Project under the Planning and Technical Services Department. Currently, this project is upgrading more than 82 substations in the reporting period.

- **Capacitor Bank Installation in 33/11 kV substations**
  In the fiscal year 2081/082, the installation of 11 kV capacitor banks was successfully completed across 14 different 33/11 kV substations, adding a total reactive power capacity of 110 MVAR to the national distribution system. This initiative marks a significant milestone in strengthening Nepal's electricity distribution infrastructure.
  The improved voltage profile observed across the networks following the installation reflects the effectiveness of the project. Building on this success, plans are now underway to expand the project nationwide, aligning with the evolving needs of the distribution network. This step is expected to further support reliable, efficient, and stable power delivery to consumers throughout the country.
- **Schedule maintenance of Distribution Line and 33/11 kV Substations**
  Similarly, scheduled maintenance of distribution network, working at off peak hours and other initiatives to minimize the supply interruption have been adopted to improve reliability of power supply. NEA has revised the norms giving up the use of bare ACSR conductor aiming the enhancement of distribution reliability. Instead of it, AAAC covered conductor have been used for medium voltage up to 11 kV and Aerial Bundled Conductor (ABC) have been used for 400 Voltage.
- **Extensive use of smart meters**
  NEA is replacing all three phase meter by smart meters and NEA is also planning to replace single phase meter with smart meters in the coming future.

11 kV line extension works in Bhojpur District

Demand Stimulation

Increased electricity generation in the country has created an opportunity and a challenge to NEA towards demand stimulation within the nation. DCSD firmly believe that the electricity demand can be increased through ensuring quality, reliable and adequate supply, improving service delivery and developing comfortable tariff and acting accordingly.

Numbers of project have been launched to improve quality and increase reliability of power supply. Electricity tariff has been reduced in overall with much cheaper rate applied in irrigation and charging station which will be helpful to promote electric vehicles.

DCSD Initiation

Electricity for All within two years

Government of Nepal has announced to provide electricity to cent percent population within two years through its plan and policy and DCSD has been striving to achieve the government's target. About 97.6% of the population is connected to the NEA Grid. NEA's Distribution network has been expanded to 14 more local levels in last fiscal year. Out of 753 local levels, 539 local levels are substantially electrified, and 196 local levels are significantly electrified by NEA Grid. Remaining 18 local levels are electrified through isolated solar/micro hydropower plant.

- Distribution Networks are to be upgraded/expanded to the capacity of 10,000 MVA for the consumption of 5,000 MW within four years. Projects like Distribution System Upgrade and Expansion (DSUEP), Grid Solar and Energy Efficiency Project (GSEEP) and various projects under Planning and Technical Services Department (PTSD) are in various stages of execution.
- Most of the 33 kV sub-transmission lines and substation are overloaded in Terai regions. So, upgradation of

substation and replacement of ACSR conductors with HTLS are prioritized in the coming fiscal year also.

- DCSD is making continuous effort to bring down the distribution system loss.
- Plans to handle consumer complaints with new technologies without delay and the procedures for new connection related works shall be made simple and user-friendly.
- To have the proper monitoring of the energy consumption pattern to a macro-level and to have appropriate load management, the Directorate is implementing the followings:
  - Replacement of existing three-phase meter with SMART TOD Meter
  - All the industries and large consumer are instructed to install an Automatic Power Factor Correction (APFC) at their end themselves, to maintain the voltage profile.
  - Introduction of single-phase SMART meter (pilot project was completed in Ratnapark and Maharajgunj DC)
  - Initiation of the underground of 11 kV and 0.4kV distribution lines
  - Launch of SMART Street Light
  - Launch of smart meters at receiving point and at interlink of Distribution centers as well as at all distribution transformer.
- Plans to make available the payment and billing information on the internet have been made so that consumer can access information online. A system will be implemented for consumers to pay the electricity bill online through an internet- based payment system or the conventional.

Challenges

There are numerous challenges to overcome in various sectors of electricity distribution and consumer services. Few of the challenges are summarized below:

- Reducing distribution losses (technical and non-technical) has always been a challenge to DCSD.
- Major challenges of DCSD are to overcome frequent tripping of lines, voltage drop and to increase system stability and realibility.
- Due to difficult topography, more time, resources and money are required to extend electricity to rural consumers.
- There are massive challenges to introduce new technologies in metering and billing. Upgradation of Online payment system to make it resilient to malware, phishing, man-in-the-middle attack, password attack and others.
- Due to the Right of Way and many more public issues, it is difficult for expansion of 11 kV, 33 kV line in the city and residential areas to meet the growing load demand of the consumers.

Transportation of AAAC by locals in Sankhuwasabha

Consumer Care

Distribution centers work as interfaces between NEA and its consumers. So, special efforts are taken to improve the quality of service at the consumer interface points. The employees took special efforts to serve our valued consumers in a more effective way. With the Queue Management System at most of the cash collection centers, difficulties encountered by the consumers in queuing for making payments were minimized. Round the clock no-light services have been implemented in most of the urban no-light centers. The online payment system has decreased the hassle of the consumers for bill payments. Drinking water facilities have also been provided to all the consumers within the DCS premises.

Planning and Technical Services Department

INTRODUCTION

Planning and Technical Services Department (PTSD) is responsible for the planning and preparation of distribution system expansion programs and supporting DCSD in the technical matters. Following scopes fall under the jurisdiction of this department:

- Monitoring and evaluation of province wise aggregrated monthly distribution system losses;
- Preparation and review of the construction standards and guidelines for electrical installations and construction activities up to 33 kV voltage level;
- Providing advice to directorate on the technical matters.
- Identification and implementation of potential rural electrification projects up to 33 kV voltage level including construction of new substation as well as its rehabilitation;

Under this department, two divisions are functional:

i. Loss Analysis Division; and

ii. Technical Support Division

Loss Analysis Division:

Loss Analysis Division under PTSD analyzes the losses occurring in the distribution system. Advanced metering infrastructure (smart meters integrated in MDMS) has been introduced for measuring the energy at the receiving point as well as at interlink between two distribution centers in order to measure the energy transactions across the distribution network. The objective of this division is to conduct rigorous analysis of distribution system loss, resulting in improved energy efficiency, reduced operational costs, and enhanced overall system performance.

Technical Support Division:

Technical Support Division under PTSD is responsible to develop and maintain technical standards, specifications, and design guidelines for the distribution system infrastructure. This division also provides engineering support for the design of new distribution system projects, including substation layouts and optimization of the infrastructure. This division also advice the DCSD on technical matters ensuring the compliance with relevant codes, regulations, and industry best practices.

Rural Electrification Programs

Government of Nepal has announced under its "Plan and Policy" for 100 percent electrification in the country within two years. To achieve the government's target, rural electrification programs under PTSD are being implemented through eight different projects. These projects are being funded by GoN and NEA. This program will cover nine districts of Koshi Province, four districts of Bagmati Province, one district of Gandaki Province, one district of Karnali Province and one district of Sudur Paschim Province.

Upgrading and Rehabilitation of Substations

The upgradation and augmentation of 33/11 kV distribution substations through 33/11 kV Substation Rehabilitation Project have been continued in order to enhance the quality and reliability of the distribution system. Fifteen (15) number of substation have been upgrading with Substation Automation System (SAS) and further sixty-six (66) numbers of substations in conventional manner across the country. The Project aims to contribute total of 425 MVA capacity upgradation of 33/11 kV substations after the completion of its implementation.

Community Rural Electrification Department

In order to expand the access to electricity services to the rural areas on people's participation approach, the Government of Nepal (GoN) has brought forward Community Rural Electrification Program (CREP) since 2003 which is being executed efficiently through Community Rural Electrification Department (CRED) under Distribution and Consumer Services Directorate (DCSD), Nepal Electricity Authority (NEA). Later on in 2010, CRED was dissolved in the process of restructuring of NEA and the activities of CREP were carried out through eight Regional Offices. However, the CREP activities were slowed down due to lack of coordination at central and regional level. On this background, CRED was formed again in July 2013. NEA, Community Rural Electrification By-Law 2071(with amendments) governs the electrification activities of NEA and CRED.

With a strong collaboration with the Nepal Electricity Authority (NEA), the electric power utility that runs under the supervision of the Government of Nepal, NACEUN has been trying to electrify the unsophisticated distant and inaccessible communities of rural Nepal. The Community Rural Electricity Entities (CREEs) are formed under the enthusiastic participation of the community. The infrastructure for electrification is constructed with a share contribution of 10% out of the total estimated budget by the CREE, and the remaining 90% by the NEA. The CREEs regulate electricity distribution services to their consumers independently after the infrastructure is handed over to them. These CREEs buy electricity from NEA in bulk, and distribute it to remote consumers. The CREEs are responsible for operation and management of electricity distribution within their concerned areas. NEA provides services up to 11 kV line and the REC itself is responsible for 400/230 Volt line.

CRED is committed to ensuring a future where every Nepali, irrespective of caste, gender, and position in the community has access to clean, affordable, and reliable electricity and the members benefit from its productive end-use. In the journey of 20 years, CRED has achieved a major success of providing access to electricity to around 55 districts through 516 (300 CBOs and 216 including KKREP) community. In last F.Y. 2080/081, 14 number of Community Organizations returned to NEA with around 7,338 number of consumers. In F.Y. 2081/082, 12 numbers of community returned to NEA with around 7,315 number of consumers. The actual number of consumer within Community organizations are 4,71,225 in 42 districts through 420 communities (204 CBOs and 216 entities of Kailali Kanchanpur Gramin Bidhyut Chhata Sansthan and Rural Municipalities/ Municipalities).

The districts with CREEs have been depicted in following map:

Despite some technical and administrative issues, performance of CRED of FY 2080/81 was satisfactory. During this review period, CRED initiated activities to resolve and complete ongoing community rural electrification works, and initiated new electrification works and substations, as well as supporting for Induction Cooker, Electric Pressure Cooker in different areas of Nepal by upgrading distribution transformers and line.

CRED's major activities of this year are as follows:

- Under Twelve (12) Rural Electrification Projects, construction of 63.77 km of 11 kV line with 1336 nos. of 11 meter HT Poles installation, 257.336 km of 400/230 V LT line 5775 nos. of 8/9 meter LT Poles installation, and installation of 52 Nos. of distribution transformers with different capacities have been completed.
- Similary, replacement of 672 number of wooden poles with steel tubular poles has been completed.
- Total number of 12 CREEs with about 7,315 number of consumers returned to NEA.
- After constant efforts since long time, with the help of Local Level Ward, Municipal Authorities and District Administration Office, Panchathar disputes for 33 kV line with local people have been settled. With this construction of 33/11 kV, 6/8 MVA Substations in the rural areas of Panchthar, Tumbewa and 33 kV line extensions from Thapatar, Phidim to tumbewa, Panchthar have been completed. Testing and Commissioning Works of Substation are underway.

33/11 kV, 6/8 MVA Tumbewa, Panchthar Substation Completed.

CRED in different stages of execution FY 2080/81 are as follows:

- Electrification, System Improvement and Rehabilitation Projects : 33/11 kV, 6/8 MVA Tumbewa Substation has been charged after 33 kV line from Thapatar, Phidim to Tumbewa, Panchthar substation completed which was halted from 33 kV Line completion regarding forests issue and local issues.
- Number of Completed Projects : 12
- Capitalization Works Completed : 12
- Different Old Chronic Contracts of Taplejung Lot11/CRED/Line/2075/076-02, Lot11/CRED/Line/2075/076-03, Lot11/CRED/Line/2075/076-04 & Lot11/CRED/Line/2075/076-05 have been completed and measurement & billing works from CRED have been completed. Final payment works has remained due to Contractor.
- Chingad Samudik bidhut Sahakari Sanstha, Surkhet Community Contract No.: Lot10/CRED/Line/2075/076-01 have been completed and measurement & billing/Payment works have been made.
- After initiation of CRED and with the decision of Steering Committee of DCSD for Ease of Communities regarding issues, Old Chronic Contract for Electrification Works in the area of Jay durge Chamiliya Gramin Samudik Sanstha, Baitadi Community Contract No.: CRED/LINE/2073/074-03 has been informed about completion.
- Contract No.: Lot1/CRED/Line/2076/077-01 for Electrification Works in the area Shankhamul Gramin Didhutikaran sanstha, Salyan, has been completed and measurement & billing/Payment works are underway.
- DCSD Steering Committee, NEA has formed a Committee for disputes regarding works completed by Contractor and Materials damaged due to heavy flood in the area of Kavre 2081, Shrawan/Bhadra flood for Old Chronic Contract No.: CRED/LINE/2077/078-09 for Electrification Works in the area Bhumichuli Mangaltar Bidhut Sahakari Sanstha, Kavre. Study, Consultation, discussion and Conclusions works of the committee are underway.
- Total Wooden Pole replaced : 672.
- Total No of Running Projects: 21
- With the time frame, Rate revision of Materials & Labour is necessary and Rate revision works for Line Materials are underway for running Fiscal Year.
- This department has provision to conduct training for Community organization and has planned to conduct capacity development training program related to Technical Management training for employees working at CREEs in different province in coordination with National Association of Community Electrification Users Nepal (NACEUN) in this Fiscal Year.

Smart Metering and Automation Department

This is the newly formed department under DCSD after approval of new O&M structure by NEA's 965th Board meeting. Main objectives of this department are:

i) To implement smart energy meters throughout the country gradually for reliable and remote meter reading.

ii) To implement and support computerized existing M-power Billing system in all Distribution Centers and collection centers and support ongoing RMS Billing project in terms of functional requirements, data migration expertise, and HHD integration as needed.

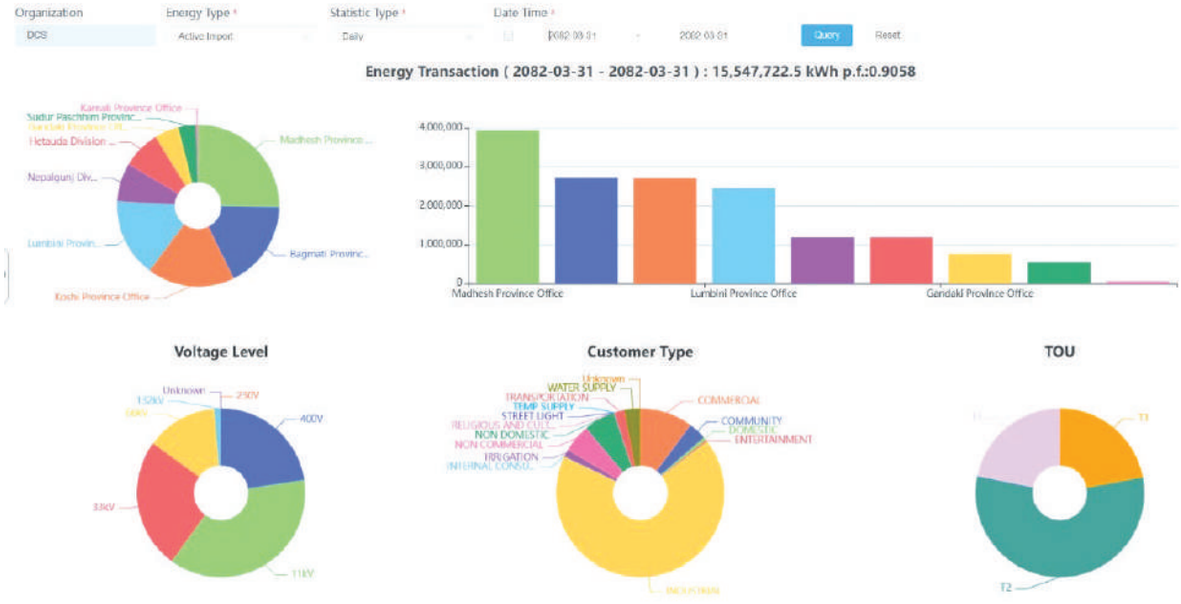
iii) To implement new and easy bill payment systems like any branch payment system (ABPS) and online payment systems In order to achieve the above goals, this department has two divisions i) Computerized Billing and Network Division ii) Metering and Automation Division and has two sections i) GIS and IT Section ii) Distribution System Control Centre.

Metering and Automation Division

In order to modernize the existing metering infrastructure in system with the latest technology in Nepal Electricity Authority, Smart Metering and Smart Grid Project under Metering and Automation Department, completed the replacement of 72,000 Three Phase Electromechanical Whole Current Meters with Smart Whole Current Meters in first phase.

Likewise, in order to complete the coverage of three phase whole current smart meter, the Project procured 150,000 number of such meters. The delivery has been completed and the contractor has already replaced 27,297 no's of meters and remaining work is in progress. NEA has installed more than 25,000 of meters for the new consumers. These meters are equipped with e-sim, which is latest technology introduced by Nepal Telecom.

All the meters installed are in communication with Head End System (HES) and energy & electrical instantaneous data, meter events and alarms received from the meter through Head End System is exported to Meter Data Management System (MDMS) for data analysis and reporting purpose.



Energy distribution of Province, Voltage Level, Consumer Category and Time of Use form NEA, AMI System

In order to keep the systematic record of field related works and configuration of those meters to system there is Field Device Management System (FDM) and its associated mobile app for life cycle management activities of meter like New Installation, Meter Change and Meter Closed related works.

The smart metering smart grid project, is also integrating Three Phase CT operated smart meter, procured by Procurement Management Division, into its system. Till date, 7,600 nos of CT operated smart meters have been programmed by Metering Division and all of them are configured into the system. Out of 7,600 meters programmed and configured into the system, around 4,500 meters were used for replacing the non-smart Three phase CT Operated meter that were installed in high voltage consumers. All the high voltage consumers that are connected via Potential and Current Transformer now have CT Operated smart meters. Power Trade Department also has installed 162 numbers of these smart meters in several IPP. Distribution Centers are also installing these smart meters in the 33 kV and 11 kV feeders which fed the consumers under that DC for the purpose of energy accounting, upto this F.Y., 660 nos of smart meter have been installed in feeders of different substation and 310 nos in interbranch between DCS. Upto this FY 580 nos CT operated smart meters are installed in Grid Substation.

Consumers connected with smart meters for energy metering are integrated with billing system and configured for automated billing generation without any human intervention. Consumers receive electricity bill via SMS and email.

Smart metering smart grid project has started analyzing the energy loading and energy requirement analysis, load analysis, reliability indices, customer GIS locational mapping, consumer ranking, energy balance and loss analysis models etc. that will be helpful and key factor in the planning and upgradation of the system.

Metering(TOD) Section

The Metering section, formerly known as TOD section, deals with the programming of the smart meters with the parameters typically required by DCS as well as NET Metering, Independent Power Producers and Export/ Import. The section also recalculates the arrear billing file

Smart 3 Phase Energy meter installed at consumer site

sent by different branch offices of NEA.

Chut Billing

In Fiscal year 2081/82 total units recovered from chut billing was 97,14,859.61kWh

The Total Amount recovered from above mentioned unit was NRs. 8,61,86,225 (Eighty six million one hundred and eighty six thousand two hundred and twenty five Rupees)

Meter programming Details

- Koshi PO: 265
- Madesh PO: 299
- Bagmati PO: 654
- Gandaki PO: 150
- Lumbini PO: 384
- Karnali PO: 30
- Sudurpachim PO: 103

Computerized Billing and Network Division

The Computerized Billing and Network Division (CBND) play a crucial role in the Nepal Electricity Authority (NEA), continuously working to enhance NEA's revenue collection. The mPower Billing System provides NEA with an efficient billing system, equipped with numerous features and modules to monitor the entire process and ensure

transparency in the revenue management system.

The mPower Billing System has been successfully implemented across all NEA revenue collection centers. The Handheld Meter Reading Devices (HHD) has improved energy sales and reduced human errors during meter reading. Additionally, the division has implemented Online Meter Reading Handheld Devices (Online HHD) with wifi functionality in 155 NEA locations. This advancement allows meter readers to directly upload data to the branch server system, enhancing efficiency. The division aims to deploy HHDs across all revenue collection centers within this fiscal year.

"Online Consumer Self Meter Reading Software System" enables real-time and accurate electricity meter reading from consumers. Consumers can enter their meter readings from home via mobile apps, online platforms, or by calling the NEA hotline number 1150. The system is accessible through the website https://www.consumer.nea.org.np.

Online electricity bill payment system has been implemented in all revenue collection centers. This system caters to all consumer groups, allowing them to pay electricity bills through various online banking, mobile banking services, and e-wallet services. The online payment system has significantly reduced the time consumers spend in queues and the money spent on transportation to pay electricity bills. The total collection from online payments is shown in the table below:

Fiscal Year	No. of Online Transactions	Total Amount collected (NRs.)
2081-2082	18,436,935	34,326,695,600.55

Any Branch Payment System (ABPS), implemented within the Kathmandu Valley, allows customers to pay their electricity bills at any revenue collection center within the valley, facilitating timely revenue collection and analytical reporting for NEA. Division also has implemented VPN based mobile counters in various DCs offices in coordination with IT department.

Web-based services, accessible via https://www.neabilling.com/viewonline, enable customers to view their bills. The Customer Management Information System (LAGAT) has been implemented in various revenue collection centers, helping maintain an up-to-date customer database.

The migration of community consumers to the NEA billing system is ongoing. In this fiscal year, migration of community consumers have been completed for the following DCS locations: Belbari DCS,Ramechap DCS, Salyan DCS, Dailekh DCS,Attariya, Tanahu DCS,Terathum DCS, Manang DCS, Lamjung DCS,Lamahi DCS,Beltar Sub DCS and Kalaiya DCS, Gulmi DCS, Lekhnath DCS. Additionally, the database archiving process has been completed for Taulihawa DCS and Tandi DCS to enhance the performance of the Mpower Billing System at these branches, particularly in terms of server speed and efficiency. Furthermore, the merging of Syangja DCS and Mirmi Sub-DCS,Bardaghat DCS and Triveni Sub-DCS,Tanahu DCS and Aanbukhaireni Sub DCS, Dumre Sub DCS, Kavre DCS and panauti Sub-DCS has also been finalized within the same fiscal year. Inplementation of mPower system in New Sub DCS Khairentitar (Tanahu DCS) has been successfully migrated from Lekhnath DCS.

Moreover, CBND, in collaboration with the IT department, has enhanced existing DCS activities by implementing the Revenue Accounting Consolidation Software System. This system provides real-time Revenue Management Information, aiding in data analysis and evaluation of NEA's financial health. While dealing with the day-to-day operational activities of the mPower Billing System at different branches, has also been providing input to the upcoming RMS Billing System of NEA in terms of functional requirements, migration expertise, and handheld device integration as needed.

GIS Mapping

NEA originally planned to implement GIS Mapping through GIS Smart Grid Project in the existing distribution infrastructure. Albeit, as NEA is implementing the underground distribution system in different cities including Kathmandu, original plan of this Project has been stalled and being revised incorporating the infrastructure of underground cabling.

Distribution System Control Centre (DSCC)

A DSCC for supervision and control of Kathmandu valley distribution system including under construction underground system is being built at NEA LDC premises, Suichatar under ADB loan through PMD Data Centre and DSCC Project. After completion of this project, this centre will be handed over and operated under this department.

Koshi Provincial Office, Biratnagar

INTRODUCTION

Koshi Provincial Office, situated at Rani, Biratnagar, Morang, is responsible for overall management of electricity distribution services, operation and maintenance of electrical distribution networks in 14 districts in Koshi Province. Under its supervision, there are 24 distribution centers that are responsible for operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage level and 33/11 kV sub-stations as well as consumer services activities such as new consumer connections, meter reading, billing and revenue collection. The salient features of this provincial office are as follows:

HIGHLIGHTS OF THE YEAR

No. of DCS
24

Total Consumers
1,100,644

Annual Revenue
18.12 Billion

Total Collection
17.72 Billion

Annual Energy Sales
1,932.93 GWh

Distribution Loss
12.27%

Operational Structure

There are 24 distribution centers operating under Koshi Provincial Office, Biratnagar. There is a technical section comprising of Electrical and Civil engineers who look after all the technical matters, projects, planning & development and corporate work of the allocated areas. Rural Electrification and sub-station activities within the area are coordinated by the technical section. The finance and revenue functions are carried out by the Deputy Director of the finance division. The division office is provided with a separate administrative officer to attend human resource function. The source of fund is Government of Nepal and NEA itself. There are various 33 kV transmission lines and substation projects funded by Government of Nepal under this provincial office.

Consumer Number

Koshi Provincial Office recorded 1,100,644 consumer accounts by the end of the fiscal year 2081/82.The majority of consumer accounts were registered in the domestic category which happens to be 89.12% while the second largest consumer category was found to be irrigation which accounts for 7.79% of the total consumers.

Sales

A total of 1,932,924 MWH of energy was sold in the FY 2081/82. Sales contribution to NEA system from this Provincial Office is 17.12%.

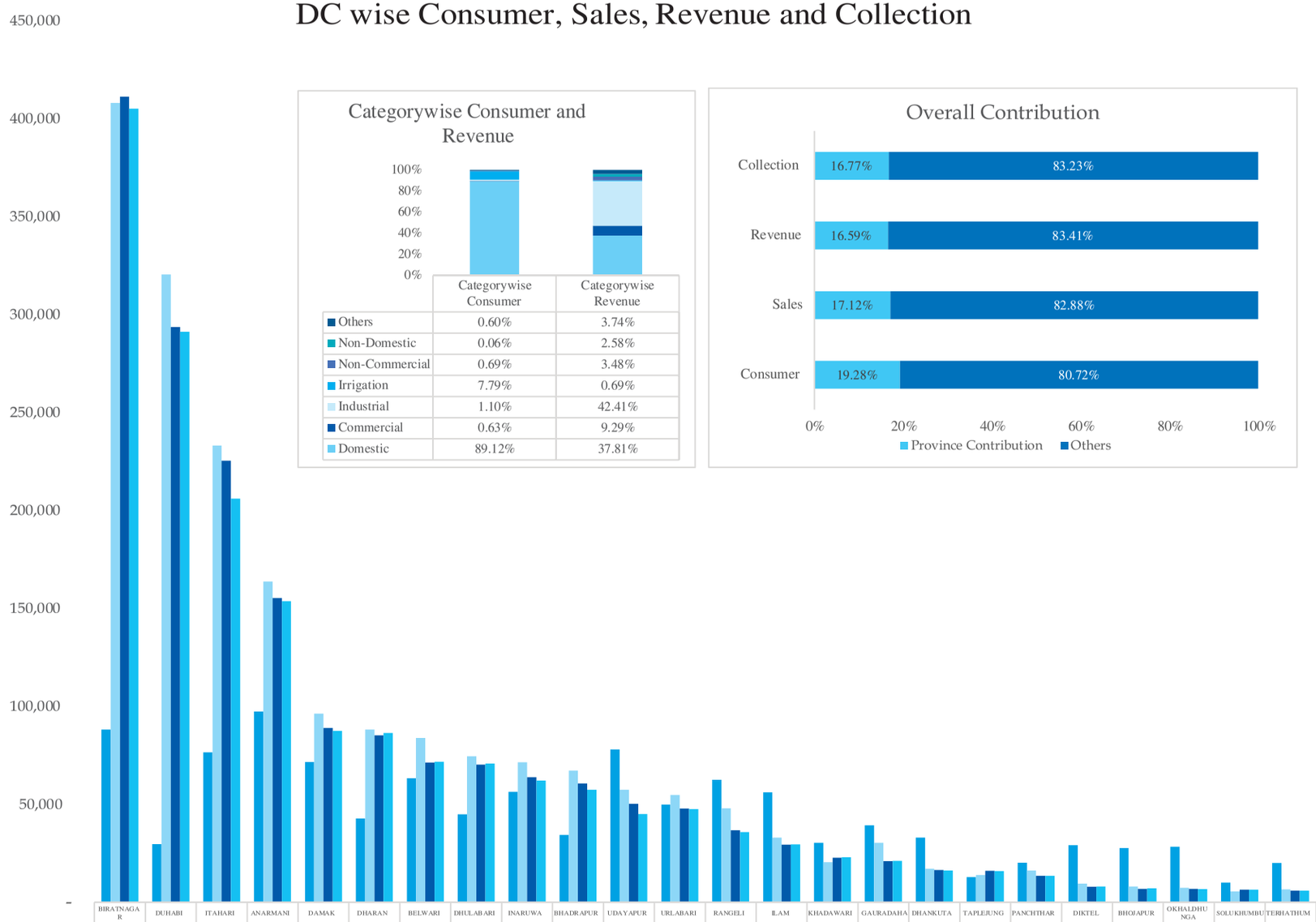
Revenue

The gross revenue of NRs. 18.12 Billion was earned in F/Y 2081/82 out of which Industrial consumer contributed the highest with 42.41%.

Distribution Infrastructures

Distribution Infrastructures	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	1,235	1,369
11 kV Distribution Lines (in km)	10,267	10,845
33/11 kV Primary Sub-stations	35	35
Total Substation Capacity (MVA)	583	677
LV Distribution Lines (in km)	27,659	28,771
Total Number of Distribution Transformer	8,648	9,458

DC wise Consumer, Sales, Revenue and Collection



Categorywise Consumer and Revenue

	Categorywise Consumer	Categorywise Revenue
Others	0.60%	3.74%
Non-Domestic	0.06%	2.58%
Non-Commercial	0.69%	3.48%
Irrigation	7.79%	0.69%
Industrial	1.10%	42.41%
Commercial	0.63%	9.29%
Domestic	89.12%	37.81%

Overall Contribution

	BIRATNAGAR	DUHABI	ITAHARI	ANARMANI	DAMAK	DHARAN	BELWARI	DHULABARI	INARUWA	BHADRAPUR	UDAYAPUR	URLABARI	RANGELI	ILAM	KHADAWARI	GAURADAHA	DHANKUTA	TAPLEJUNG	PANCHTHAR	DIKTEL	BHOJAPUR	OKHALDHUNGA	SOLUKHUMBU	TERHATHUM
Consumer Number	88,095.00	29,544.00	76,513.00	97,284.00	71,465.00	42,663.00	63,188.00	44,796.00	56,339.00	34,312.00	77,936.00	49,792.00	62,466.00	56,022.00	30,309.00	39,188.00	32,899.00	12,809.00	20,107.00	29,086.00	27,617.00	28,238.00	10,039.00	19,937.00
Sales (Mwh)	407,858.75	320,332.60	232,978.00	163,627.57	96,204.03	88,094.42	83,734.17	74,436.75	71,348.87	67,169.64	57,339.31	54,647.36	47,866.00	32,978.00	20,333.73	30,219.01	17,065.75	13,834.41	16,159.54	9,473.00	7,974.00	7,352.53	5,446.09	6,451.42
Revenue (Rs in 0000')	411,072.80	293,504.69	225,301.00	155,237.55	88,898.14	85,137.42	71,195.41	70,214.49	63,833.09	60,628.10	50,160.01	47,735.79	36,675.30	29,292.00	22,720.35	20,862.03	16,406.21	16,015.25	13,406.87	7,912.10	6,788.90	6,744.58	6,397.56	5,878.11
Collection (Rs in 0000')	404,896.51	291,149.10	205,943.40	153,571.98	87,336.99	86,397.47	71,704.04	70,743.81	62,034.15	57,364.25	44,946.41	47,477.57	35,784.30	29,487.10	22,973.82	21,020.10	16,089.00	15,815.95	13,479.39	7,992.40	6,999.10	6,704.98	6,375.65	5,901.66

Consumer Services Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	1,644	1,765
Annual Revenue per Consumer (Rs./Consumer)	15,454	16,463
Consumer per Distribution Transformer	121	116

Consumer Care

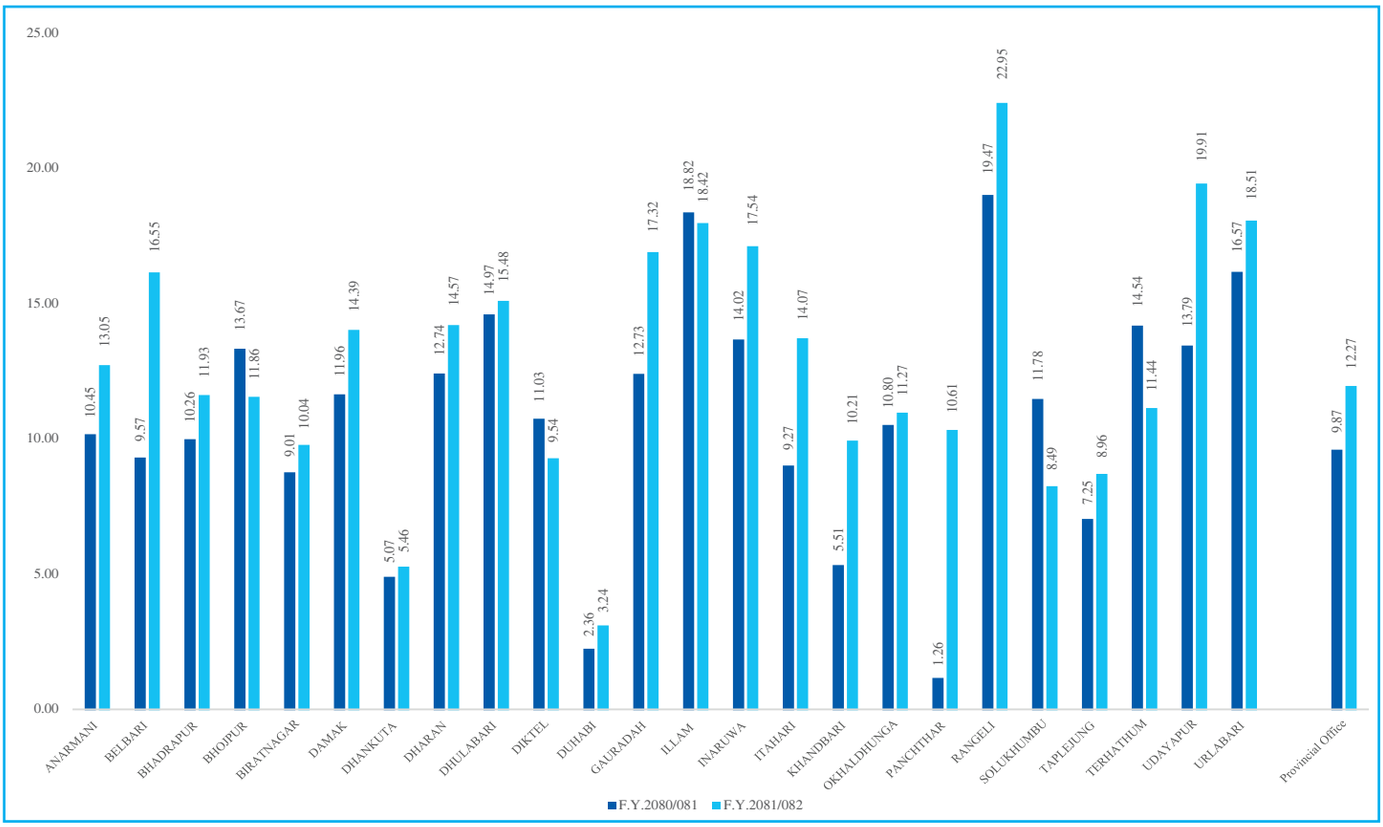
Implementation of Customer Care programs in this provincial office are:

1. Call Center: Call Center is operating under this provincial office to take necessary actions for providing quick service to the consumers.
2. New Meter Connection: The distribution centers have been instructed to connect new meters as soon as possible after the registration of customers' application. Various DCs have also been observed to have followed the concept of on-demand meter connection. Likewise, a strict timeline has been imposed to carry out Grid Impact Study (GIS) for those consumers requiring a supply of 5 MVA or higher.
3. No Light Services: No light Services operating under this provincial office take necessary actions after acknowledging and registering the consumers complain in no light register as soon as possible.
3. Quality Supply: The routine works such as addition of new transformers, shifting of distribution transformer at load centers, addition of two wires and enhancement and maintenance of sub-stations have played key roles in voltage improvement, thereby providing quality supply. Many feeders in urban areas, which were previously overloaded, have been replaced with larger conductors so as to increase the ampacity of the feeders thereby, providing people with uninterrupted power supply as much as possible.
4. Online Payment System: The recently introduced online payment system has effaced the need for consumers to visit the counters for bill payment, thus saving time and efforts of the consumers as well as the staff of NEA. Consumers can pay their bills via various service providers.

Loss Reduction Activities

During the year under review, various measures taken in

Comparative Analysis of DCs Losses of Two Consecutive Years



the preceding years were continued to reduce the non-technical losses. Regular monitoring and on the spot inspection of meters, especially in theft prone areas, were carried out in a massive scale. Strict actions such as confiscation of electric equipment and legal actions were taken in various distribution centers with the help of local administration and security agencies against the consumers who were found to have been engaged in fraudulent activities such as hooking, by pass of energy meters and NEA approved MCBs, etc.

The total number of line disconnection in FY 2081/082 was 29,034 with due amount of 591.604 million and the total number of line reconnection was 30,062. The total amount collected from line reconnection was 477.519 million.

Achievements and Prospects

1. **Construction of 33 kV Sub-transmission Line from Barju Sub-station to Rani Sub-station**
   A new Double circuit 33 kV sub-transmission line is constructed from Under construction 132/33 kV Barju Grid Sub-station to 33/11 kV Rani Sub-station with ACSR "WOLF" conductor and have been completed . After its completion, the burden at 132/33 kV Duhabi grid sub-station should be significantly reduced and reliability of the supply will increase which creates a Ring Main System.

2. **Reinforcement of 11kV Capacitor bank at Rani Substation**
   The 11kV Capacitor Bank which were almost in dilapidated states have been replaced with new capacitor bank to increase voltage level and to reduce voltage sag at this substation

3. **Reinforcement of Various 33/11 kV Sub-stations**
   Various switchgear and electrical equipments at 33/11 kV sub-stations such as circuit breakers, control and relay panels, disconnection switches, battery and battery chargers, etc. which were almost in dilapidated states have been replaced with new equipments.

Way Forward and Future Plans:

Despite the adverse nature of topography and harsh climatic conditions, Koshi Province, can provide this provincial office with interesting opportunities to realize and prosper. With proper evaluation and strategic planning, the points mentioned below can be realized to improve the overall performance in near future:

Future Programs and Plans	
Under Construction 33/11 kV Distribution Substations	1
Distribution Capacity of Under Construction Sub-station (MVA)	8
Planned 33/11 kV Distribution Substations	1
Distribution Capacity of Planned Substations (MVA_	16.6
Planned 33 kV Distribution Lines	65 km
Planned 11 kV Distribution Lines	290 km
Planned LV Distribution Lines	1100 km
Planned LV Distribution transformers	750 Nos.

1. Biratnagar Metropolitan City is regarded as one of the largest industrial cities all over the nation. And a large proportion of the revenue generated by Biratnagar, Duhabi and Itahari DCs comes from industrial consumers. A reliable and quality service to the industries can increase the sales and revenue further in the region.
2. Gauradaha, Damak, Anarmani, Urlabari and Rangeli DCs have comparatively higher number of consumers registered in the irrigation category. A strategic planning and load management during agricultural season can boost the revenue and agriculture in Jhapa and Morang districts.
3. The Khumbu region, also known as the Everest region is one of the most popular tourist destinations in the world. However, due to the harsh nature of climate and topography in the region, electrification in the surrounding area has not been possible yet. However, expansion of a reliable and affordable distribution system can have a significant positive impact in boosting the life standard and tourism in the area.
4. A tremendous amount of electric power can be generated in Koshi Province, which needs alternative means of evacuation as soon as possible. The three major transmission corridors namely Kabeli, Koshi and Solu corridors can facilitate evacuation of huge power from majors IPPs in the hilly regions of Koshi Province.

Koshi Provincial Office and Distribution Centre Chiefs

Rajiv Kumar Singh
Provincial Chief, Koshi Provincial Office

Saroj Kumar
Biratnagar DC

Paritos Chaudhary
Damak DC

Madhav Prasad Yadav
Udaypur DC

Ram Udgar Sah
Itahari DC

Rajmani Bajgain
Bhadrapur DC

Sanjib Kumar Sah
Anarmani DC

Pawan Kumar Sah
Belbari DC

Rewat Kumar Chaudhary
Inaruwa DC

Abhinav Jha
Duhabi DC

Niraj Kumar Sah
Urlabari DC

Pankaj Kumar Goti
Rangeli DC

Pradip Kumar Sharma
Dharan DC

Roshan Kumar Singh
Dhanakuta DC

Pratish Dhakal
Terhathum DC

Shatrudhan Yadav
Khandbari DC

Rambabu Chaudhary
Bhojpur DC

Bijali Prasad Yadav
Ilam DC

Suresh Prasad Chaudhary
Taplejung DC

Sagar Pokhrel
Gauradaha DC

Dipak Dahal
Panchthar DC

Shambhu Prasad Mandal
Dhulabari DC

Ishwor Kumar Shrestha
Okhaldhunga DC

Asheshwor Kumar Yadav
Solukhumbu DC

Sobit Bahadur Chhetri
Diktel DC

Madhesh Provincial Office, Janakpur

INTRODUCTION

Madhesh Provincial Office Janakpur is one of the seven Provincial Offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution of Madhesh Province. It comprises 23 Distribution Centers in Saptari, Siraha, Dhanusha, Mahottari, Sarlahi, Rauthat, Bara & Parsa District.

HIGHLIGHTS OF THE YEAR

No. of DCS
23

Annual Revenue
21.74 Billion

Annual Energy Sales
2,430.75 GWh

Total Consumers
1,201,248

Total Collection
20.00 Billion

Distribution Loss
14.05%

Operational Structure

There are 23 Distribution Centers under this Provincial Office Janakpur spread over Madhesh Provincial Office, Janakpur comprises of technical, financial and administrative division which monitors various actions of the concern DCs. The source of fund is Government of Nepal and NEA itself. There are several projects under construction which includes 33/11 kV substations, 33 kV transmission line, 11 kV line projects and rural electrification project funded by Government of Nepal under this Provincial office.

Consumer Number

Madhesh Provincial Office, Janakpur recorded 1,201,248 consumer accounts by the end of the fiscal year 2081/82. The majority of consumer accounts were in the domestic category which happens to be 85.84% while the second most were from the irrigation category which accounts for 11.46% of the total consumers.

Sales

A total of 2,430,751 MWh of energy was sold in this F.Y. 2081/82, Sales contribution to NEA system from this Provincial Office is 21.53%.

Revenue

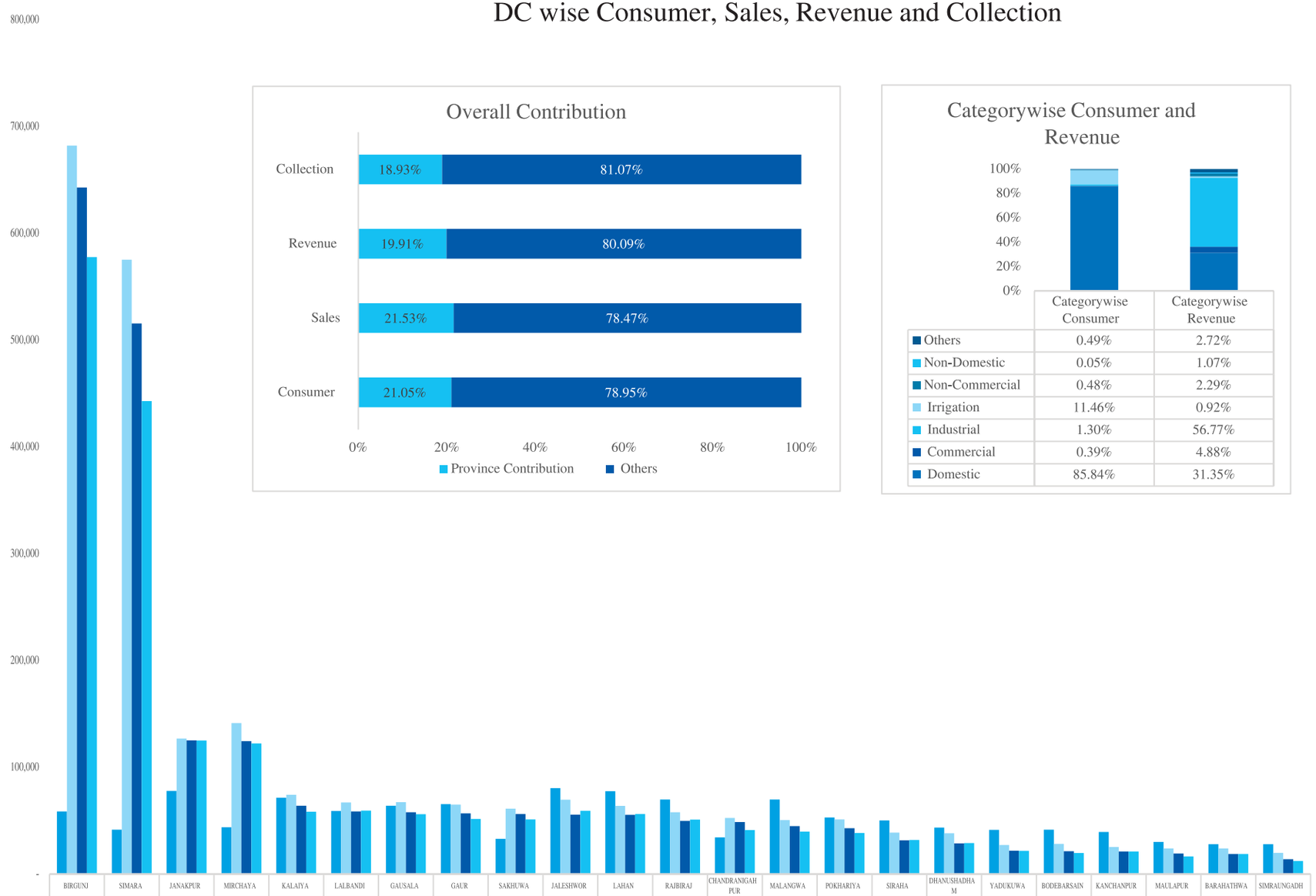
The gross revenue of Rs. 21.74 Billion was earned in F.Y. 2081/82 after selling of 2,430,751 MWh energy.

The majority of revenue in Madhesh Provincial Office, Janakpur is recorded from Industrial & Domestic tariff category which is approximately 56.77% & 31.35% respectively of the total revenue of the province.

Distribution Infrastructure

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	791	850
11 kV Distribution Lines (in km)	7,207	7,230
33/11 kV Primary Sub-stations	26	30
Total Substation Capacity	489	731
LV Distribution Lines (in km)	23,686	24,870
Total Number of Distribution Transformer	7,809	8,043

DC wise Consumer, Sales, Revenue and Collection



Overall Contribution

Categorywise Consumer and Revenue

	Categorywise Consumer	Categorywise Revenue
Others	0.49%	2.72%
Non-Domestic	0.05%	1.07%
Non-Commercial	0.48%	2.29%
Irrigation	11.46%	0.92%
Industrial	1.30%	56.77%
Commercial	0.39%	4.88%
Domestic	85.84%	31.35%

	BIRGUNJ	SIMARA	JANAKPUR	MIRCHAYA	KALAIYA	LALBANDI	GAUSALA	GAUR	SAKHUWA	JALESHWOR	LAHAN	RAJBIRAJ	CHANDRANIGAHPUR	MALANGWA	POKHARIYA	SIRAHA	DHANUSHADHAM	YADUKUWA	BODEBARSAIN	KANCHANPUR	MAULAPUR	BARAHATHWA	SIMRAUNGADH
Consumer Number	58,567.00	41,508.00	77,849.00	43,756.00	71,393.00	59,087.00	63,889.00	65,472.00	32,952.00	80,414.00	77,563.00	69,755.00	34,372.00	69,767.00	53,002.00	50,242.00	43,556.00	41,283.00	41,568.00	39,416.00	30,042.00	27,858.00	27,937.00
Sales (Mwh)	682,156.58	575,269.01	126,783.45	141,366.33	74,153.00	66,937.86	67,308.32	65,064.91	61,183.58	69,660.00	63,718.50	57,822.48	52,423.34	50,574.56	51,105.79	38,701.77	38,202.48	27,078.14	28,144.07	25,283.07	24,000.72	23,917.52	19,895.79
Revenue (Rs in 0000')	642,923.11	515,501.76	125,192.77	124,446.77	63,962.60	58,614.26	57,842.64	56,704.70	56,221.63	55,489.90	55,375.16	49,815.87	48,678.33	44,858.99	42,807.39	31,548.13	28,720.20	21,768.44	21,300.43	21,032.73	19,231.28	18,735.00	13,875.76
Collection (Rs in 0000')	577,657.46	442,861.12	125,068.91	122,313.18	58,293.70	59,371.46	55,945.38	51,577.38	51,145.15	59,281.30	56,084.48	50,993.58	41,222.30	39,609.90	38,431.14	31,913.90	28,963.97	21,696.06	19,693.92	21,100.73	16,452.35	18,741.70	12,172.93

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	1,861	2,023
Annual Revenue per Consumer (Rs./ Consumer)	17,000	18,103
Consumer per Distribution Transformer	147	149

Consumer Care

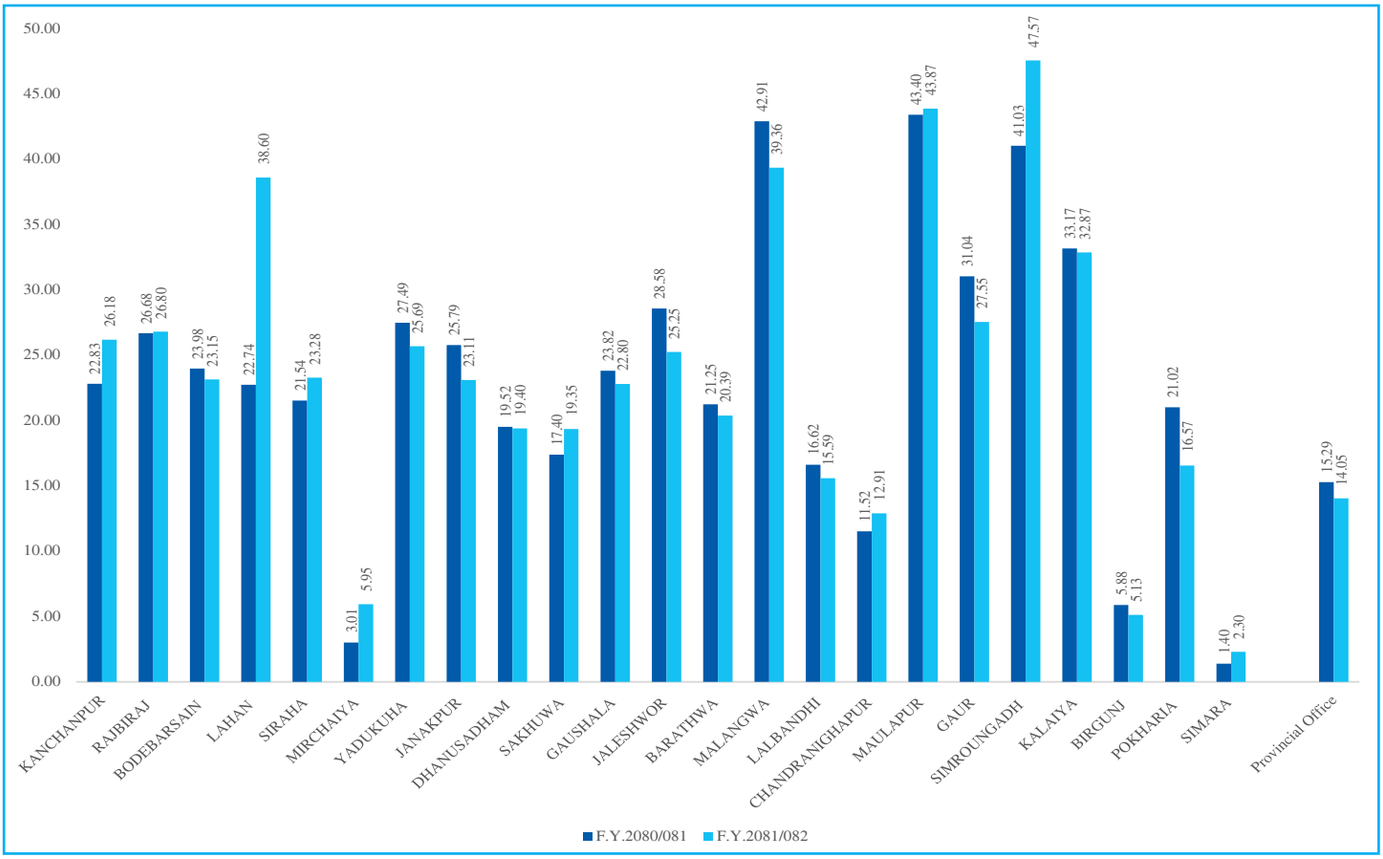
Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems. This system has given the service of paying bills online and update about the bill payment for the consumers. Consumers can pay their bills via many service providers (eSewa, PayPoint,CFS Remit,City Express, Prabhu Bank,Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank etc).

NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves time of the consumer.

Loss Reduction Activities

In the initial phase, pamphlet distribution and public hearing programmed were conducted in different DCs for awareness. With the help of security personnel, massive direct hooking control program was carried out. Similarly, intensive meter resealing and inspection program was done to minimize the chances of electricity theft. Data download and analysis of all TOD meters were completed and additional billings against CT/PT outage, MF and reverse energy case have been processed.

Comparative Analysis of DCs Losses of Two Consecutive Years



Way Forward and Future Plans:

Regarding advantage of geographical easiness over other provincial offices, huge effort aided with good amount of fund by GoN and NEA for rural electrification projects has helped to achieve the target of full electrification in all the districts of this province.

Some of the areas of Sarlahi District like Arnna Dada, Guiting dada, and Hirne dada under Lalbandi DC, Ambas, Hattidhunga to Gagan, Khultikhola-Dalme in Dhangadhi-14 of Siraha District and Jaruwa area of Rautahat have been connected to national grid during last fiscal year. It was big challenging work to complete electrification in these areas due to hilly region and long distance of electrification.

Madhesh Provincial Office and Distribution Centre Chiefs

Manoj Kumar Yadav
Provincial Chief, MadheshProvincial Office

Gajendra Kumar Chaudhary
Jaleshwor DC

Umesh Prasad Yadav
Malangawa DC

Awadhesh Kumar Gupta
Lahan DC

Ram Ayodhya Ray Yadav
Gaur DC

Abdhesh Kumar Dubey
Birgunj DC

Manoj Sharma
Mirchaiya DC

Sunil Kumar Mahato
Janakpur DC

Lakhan Lala Mallik
Rajbiraj DC

Buddhinath Jha
Pokhariya DC

Rumesh Rupakheti
Simara DC

Gopal Kumar Thakur
Yadukuha DC

Himanshu Kumar Yadav
Kalaiya DC

Basuki Nath Jha
Siraha DC

Prabin Kumar Mishra
Sakhuwa DC

Roshan Kumar Singh
Dhanushadham DC

Dhirendra Kumar Yadav
Chandranigahapur DC

Tribuwan Kumar Yadav
Lalbandi DC

Taiyab Ansari
Simroungadh DC

Anjani Kumar Yadav
Barahathawa DC

Jagannath Jha
Gaushala DC

Sanyog Bishwakarma
Bodebarsain DC

Arun Kumar Sah
Kanchanpur DC

Ram Dinesh Ray Yadav
Maulapur DC

Bagmati Provincial Office, Kathmandu

INTRODUCTION

Bagmati Provincial Office having its office at NEA head office looks after the overall management of electricity distribution services in ten districts of Bagmati Province viz. Kathmandu, Lalitpur, Bhaktapur, Kavre, Sindhupalchowk, Dolakha, Ramechhap, Dhading, Nuwakot and Rasuwa through its twenty Distribution Centers. In addition, through its division office located at Hetauda, it looks after the distribution management of three districts viz. Makawanpur, Sindhuli and Chitwan through six Distribution Centers.

The major activities of Bagmati Provincial Office include operation, maintenance and rehabilitation of the existing electricity distribution networks up to 33 kV voltage level (547 Circuit Km) and 33/11 kV substations (24 Nos., 203.6 MVA), extension of electricity distribution networks and consumer services activities such as new consumer connections, meter reading, billing, revenue collection etc.

HIGHLIGHTS OF THE YEAR

No. of DCS
20

Total Consumers
920,520

Annual Revenue
27.86 Billion

Total Collection
27.54 Billion

Annual Energy Sales
2,543.13 GWh

Distribution Loss
6.51%

In order to deliver the services effectively, within the provincial office, there are three functional sections namely Technical, Finance and Administration. Technical section looks after all the technical matters like execution of projects, planning & development of distribution network, material management, monitoring of various Distribution Centers in technical matter and rural electrification activities within the region. Finance section looks after the financial and budgetary functions of the region. Similarly, Administration section is responsible for all the administrative matters like human resource management, general administration and welfare of staffs. The Distribution Centers are front desk office for day-to-day management of distribution and consumer services.

Consumer Number

Bagmati Provincial Office, kathmandu recorded 920,520 consumer accounts by the end of the fiscal year 2081/82 and increment by 2.48% from previous F.Y. which contributes to 16.13% of total consumer in NEA.

Sales

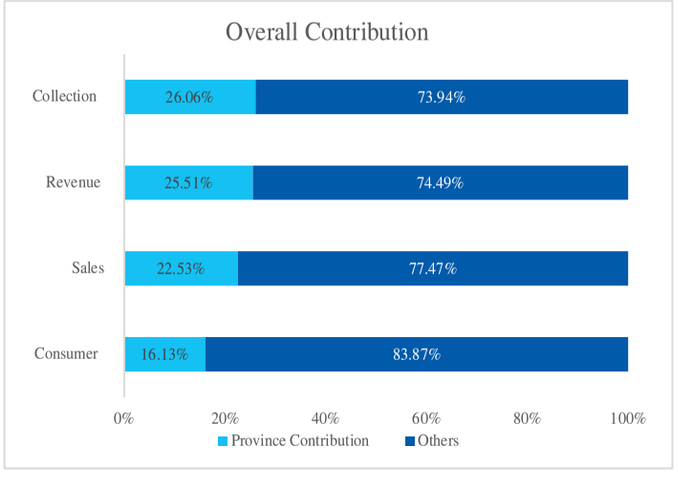
A total of 2,543 GWh of energy was sold in this F.Y. 2081/82 and increment of 5.66% from previous F.Y. and Sales contribution to NEA system from this Provincial Office is 22.53%.

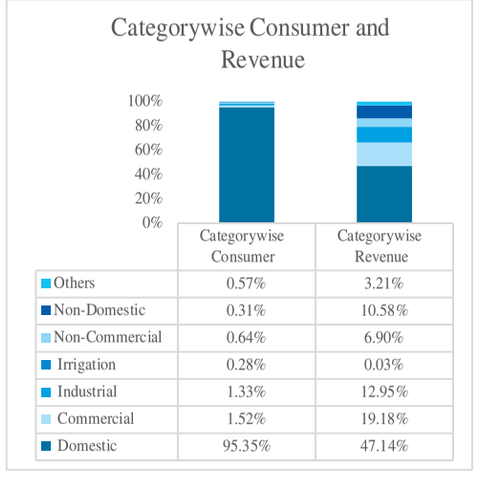
Revenue

The gross revenue of Rs. 27.86 Billion was earned in F.Y . 2081/82 after selling of 2,543 GWh energy.

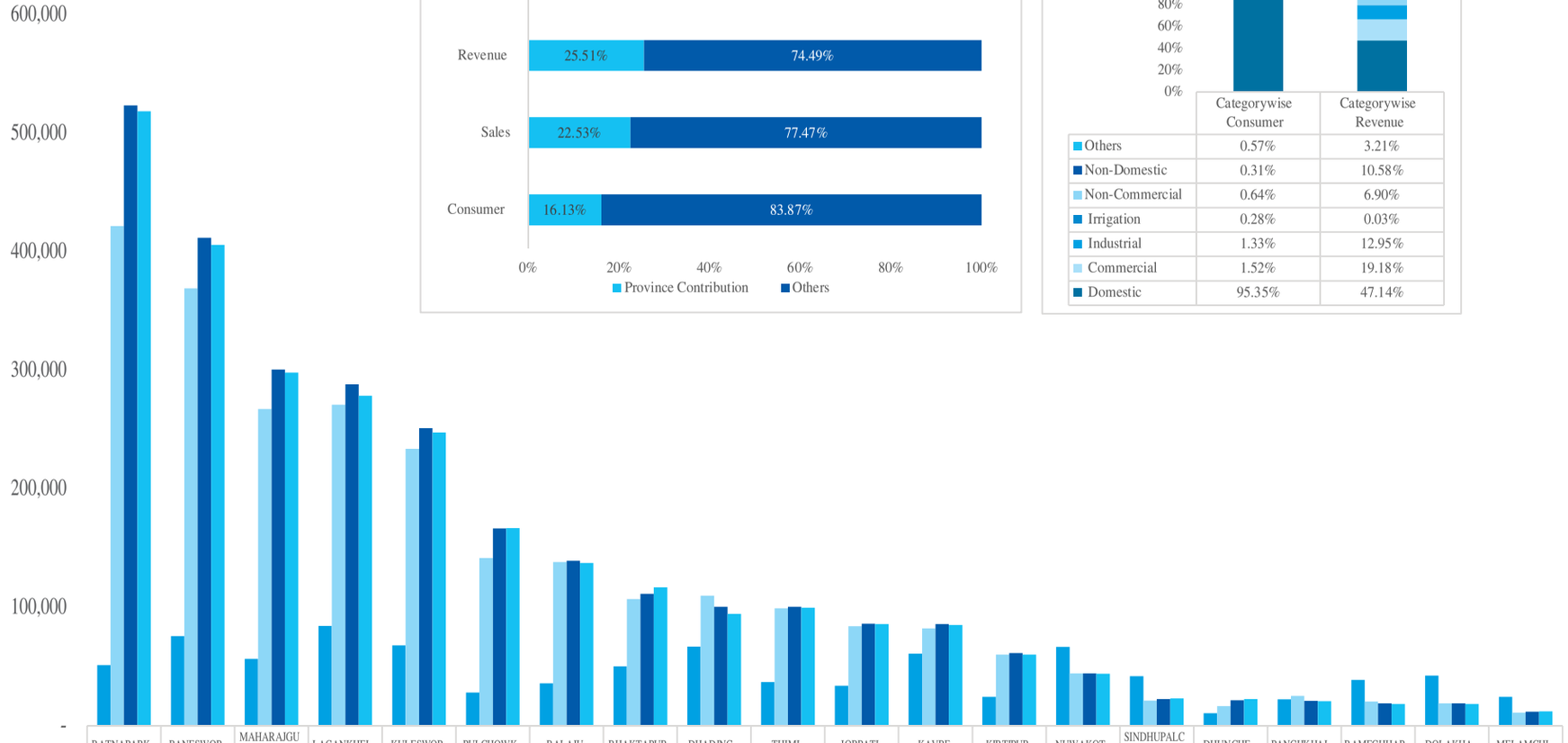
The majority of revenue in Bagmati Provincial Office,

DC wise Consumer, Sales, Revenue and Collection





	Categorywise Consumer	Categorywise Revenue
Others	0.57%	3.21%
Non-Domestic	0.31%	10.58%
Non-Commercial	0.64%	6.90%
Irrigation	0.28%	0.03%
Industrial	1.33%	12.95%
Commercial	1.52%	19.18%
Domestic	95.35%	47.14%



	RATNAPARK	BANESWOR	MAHARAJGUNJ	LAGANKHEL	KULESWOR	PULCHOWK	BALAJU	BHAKTAPUR	DHADING	THIMI	JORPATI	KAVRE	KIRTIPUR	NUWAKOT	SINDHUPALCHWOK	DHUNCHE	PANCHKHAL	RAMECHHAP	DOLAKHA	MELAMCHI
Consumer Number	51,386.00	75,708.00	56,525.00	84,351.00	67,933.00	28,099.00	36,025.00	50,154.00	66,925.00	36,842.00	33,702.00	61,017.00	24,452.00	66,700.00	41,907.00	10,578.00	22,473.00	38,769.00	42,452.00	24,522.00
Sales (Mwh)	421,746.00	369,060.00	267,223.00	271,027.00	233,679.00	141,638.00	138,225.00	106,950.24	109,923.00	99,097.00	84,008.00	82,183.00	60,150.12	44,318.00	21,293.00	16,705.00	25,262.00	20,571.00	18,934.00	11,138.00
Revenue (Rs in 0000')	523,366.80	411,821.40	300,625.10	288,122.30	251,104.50	166,653.50	139,166.20	111,429.99	100,558.80	100,438.70	86,111.50	86,009.80	61,516.23	44,351.00	22,638.40	21,558.10	21,084.60	18,925.70	18,872.10	11,965.80
Collection (Rs in 0000')	518,578.20	405,749.30	297,967.30	278,535.90	247,466.30	166,859.70	137,315.00	116,790.75	94,486.10	99,645.80	85,770.50	85,126.80	60,071.00	43,924.60	23,054.20	22,747.60	20,770.60	18,450.20	18,519.10	12,264.00

Kathmandu is recorded from Domestic tariff category which is approximately 47.14% of the total revenue of the province.

Distribution Infrastructure

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	537	547
11 kV Distribution Lines (in km)	7,802	8,177
33/11 kV Primary Sub-stations	22	24
Total Substation Capacity	176	204
LV Distribution Lines (in km)	25,439	26,848
Total Number of Distribution Transformer	8,829	9,261

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	2,680	2,762
Annual Revenue per Consumer (Rs./ Consumer)	29,305	30,268
Consumer per Distribution Transformer	102	99

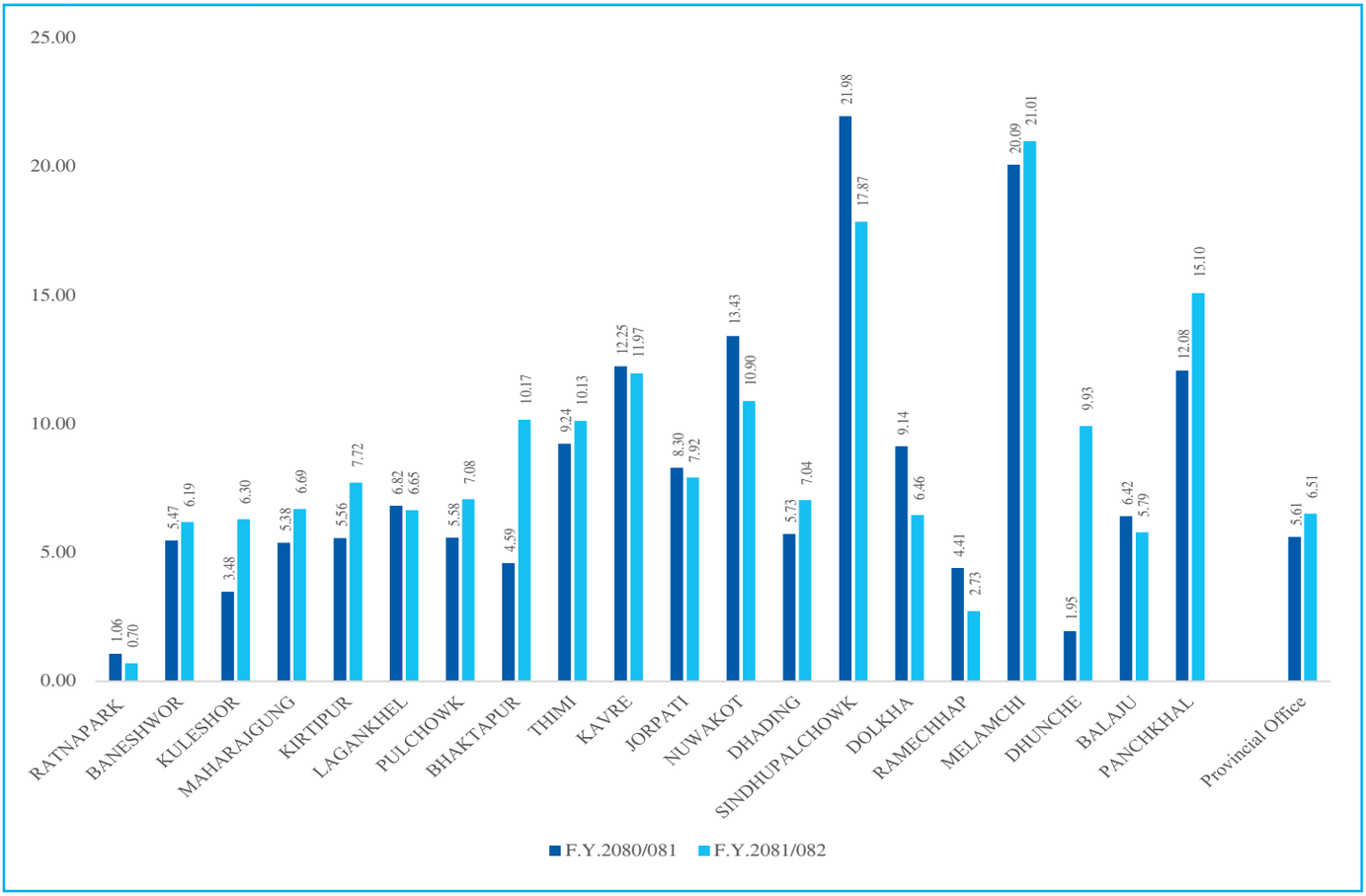
Consumer Care

Provincial office highly values its consumer and putting special efforts throughout the year to improve the services and to meet the consumer satisfaction. Call center at Bagmati Province is providing services 24x7 by taking consumer's complaints. Consumers can call by dialing 1150 and extension 3 for their complaints. The call center is operating under this provincial office to take necessary actions for providing quick service to the consumers. This has helped to address and attain the no light complaint in an accelerated way. In the FY2081/082 total numbers of complains received were 128,351 Nos and there were 42,612 abandoned calls. In the FY2081/082 total numbers of CRM complain received were 35,820. Many Distribution Centers have also introduced one door system to facilitate the consumers and to provide the service as quickly as possible.

Loss Reduction Activities

The activities for the reduction of both the technical and non-technical losses have been the major activities of all Distribution Centers. Strict measures for electricity theft control such as confiscation of electric equipment and taking

Comparative Analysis of DCs Losses of Two Consecutive Years



legal action against culprits were conducted in various Distribution Centers with the help of local administration and security agencies. Besides, activities like regular inspection of Time-of-Day (TOD) meters, data download and analysis, regular meter reading and cross checking of meter readers, resealing of meters, replacement of stopped meters etc. were regularly conducted throughout the year. In FY 2081/82 there are 391 Nos of leakage reduction activities, total received units are 338,761.05 KWh and 5,193,185.15 NRs is received.

Transformer Workshop Activities

Transformer Workshop Branch located in Kharipati Bhaktapur received 999 damaged transformers from different Distribution Centers in FY 2081/082 and it dispatched 634 numbers of transformer to different Distribution Centers and 335 numbers of transformers are non-maintainable. A total number of 589 transformers are repaired and around 700 transformers of different companies are tested in FY 2081/082.

Construction and Shifting of HT/LT Distribution Lines Along Highways

Construction and shifting of HT/LT Distribution Lines along Prithivi Highway (Nagdhunga-Naubise-Mugling Section) and Araniko Highway (Suryabinakay-Sanga-Dhulikhel Section) is ongoing. Almost 65 % of Construction and shifting of HT/LT Distribution Lines in Prithivi Highway and almost 60 % in Araniko Highway has been completed.

Glimpse of Distribution Centers

Ratnapark Distribution Center: New underground feeders (Thamel and Sorakhutte) have been constructed to manage load of Thamel area and provide reliable and continuous supply of electricity.

Kuleshwor Distribution Center: On Chaitra 31, 2081, suddenly a fire broke out in the breaker panel during VCB panel installation in Matatirtha S/S. The electricity supply was resumed immediately in the affected areas through Balambu, Thankot and Khadkagau feeder originating from Syuchatar Substation. About 100-meter 11 kV line was constructed as soon as possible to feed the affected areas through alternative feeders for further reliable and stable connection.

Maharajgunj Distribution Center: Zero accident record, better customer service provided and 99.71 % collection achieved.

Baneshwor Distribution Center: GIS mapping of overall 11 kV line, Transformer and Street light, initiation of filling of feedback form by customer and daily calculation of SAIFI, SAIDI and CAIDI reliability indices.

Kirtipur Distribution Center: Three double circuit 11 kV feeder has been constructed from 132/11 kV Chobhar substation of around 13 km length.

Jorpati Distribution Center: Feeders are newly constructed, re-routed and interconnected in the distribution center area from recently constructed 132/11 kV Mulpani Substation for reliable power supply.

Balaju Distribution Center: One door service has been implemented, child feeding center has been established and sales has been increased by 8.5 % and revenue collection has been increased by 9.33 %.

Pulchowk Distribution Center: No light service in Bhaisepati Sub Center has been extended to three shifts from one shift and 2 Crore 70 Lakh NRs debt from Nakhu Jail has been collected.

Lagankhel Distribution Center: Restore/recovery of damaged HT and LT lines due to massive flood of 12th Aswin 2081 within 24 hours.

Bhaktapur Distribution Center: 102 Nos of leakage reduction activities, total received units from them are 39,389 KWh and 1,835,320 NRs is received.

Thimi Distribution Center: All the street light of distribution center has been jointly verified and bills have been finalized and to increase reliability all radial feeder has been converted to ring type feeders.

Dhading Distribution Center: 33 kV double circuit line from Malekhu S/S to Dhadingbesi S/S has been constructed and charged.

Newly Constructed Malekhu-Dhadingbesi double circuit 33 kV subtransmission line

Underconstruction 33/11 kV, 8 MVA Jharlang substation, Dhading

Nuwakot Distribution Center: Distribution Center loss has been reduced to 10.90 % from 13.43 %.

Rasuwa Distribution Center: NRs 10,674,455 has been recovered from blacklisted customers and restoration of damaged HT and LT lines due to massive flood of 24th Ashad 2082.

Kavre Distribution Center: Restore/recovery of damaged HT and LT lines due to massive flood of 12th Aswin 2081 within 20 days and GIS mapping of overall 11 kV line and Transformer.

Panchkhal Distribution Center: Restore/recovery of damaged HT and LT lines due to massive flood of 12th Aswin 2081 within 5 days.

Sindhupalchowk Distribution Center: Electricity supply is made reliable in Bhotekoshi and Barhabishe Rural Municipality by constructing separate feeders.

Dolakha Distribution Center: Protection and control panel added in Gonger Jagat feeder.

33kV line structure at Namdu substation

Melamchi Distribution Center: Due to flood on 31st Ashad 2081 control building of the 66/11 kV Indravati substation was damaged; power has been restored to all areas of the Distribution Center by rerouting power from nearby feeders of neighboring Distribution Centers.

Ramechhap Distribution Center: Two feeders from Manthali S/S and one feeder from Sanghutar S/S are constructed and operational four feeders are linked which helped in reducing tripping and outage.

33/11 kV, 8 MVA Manthali substation, Ramechhap

Way Forward

Provincial office focuses on works such as addition of new transformers, managing of distribution transformer at load centers and maintenance of sub-stations which plays key roles in loss reduction, voltage improvement, thereby providing quality and reliable supply. Many feeders in urban areas, which are overloaded shall be upgraded so as to increase the ampacity of the feeders thereby, providing people with uninterrupted power supply. Proper earthing of transformer shall be done for loss reduction and enhance reliability. Installation of capacitor bank at different substations and industrial consumer shall help in voltage improvement and loss reduction. Loss reduction and Revenue increasing activities will be continued with more précised and focused way. Bagmati Provincial Office is planning to install Auto reclosers and Gang Operated Air Break Switch to enhance reliability of electrical power distribution system which is essential for ensuring a stable and continuous supply of electricity to consumers. Different trainings and skill development activities of technical manpower shall be conducted to enhance expertise/efficiency of technical manpower and to reduce outage time as well as electrical accidents.

Bagmati Provincial Office, Distribution Centre and Transformer Workshop Chiefs

Tek Nath Tiwari
Director, Bagmati Provincial Office

Birendra Kumar Singh
Kuleshwar DC

Baburam Subedi
Maharajgunj DC

Rohini Paudel
Baneshwor DC

Subodh Sharma
Pulchowk DC

Prajwal Man Shrestha
Ratnapark DC

Indra Bahadur GC
Nuwakot DC

Ram Pramod Sah
Bhaktapur DC

Amrit Babu Adhikari
Kavre DC

Sudhir Kumar Ray
Dhading DC

Dhruba Raj Karki
Jorpati DC

Bijay Mahato
Lagankhel DC

Jayananda Jha
Thimi DC

Sanu Babu Thapa
Kirtipur DC

Jay Kumar Yadav
Balaju DC

Sunil Sapkota
Pachkhal DC

Deepak Sapkota
Sindhupalchowk DC

Netra Mani Neupane
Dolakha DC

Rajan Bhandari
Melamchi DC

Gunjaman Tamang
Rasuwa DC

Dipendra Budhathoki
Ramechhap DC

Rajib Kumar Sharma
Transformer Workshop

Bagmati Province Division Office, Hetauda

INTRODUCTION

Bagmati Province Division Office is subsidiary division of Bagmati Provincial Office under Distribution and Consumer Services Directorate (DCSD). Area of operation of this Province Division Office includes Makwanpur, Chitwan & Sindhuli districts of Bagmati Province. It is responsible for overall management of electricity distribution services within the area.

The major activities of the division office include operation, maintenance, rural electrification and rehabilitation of the electricity distribution networks up to 33 kV voltage level and 33/11 kV substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

HIGHLIGHTS OF THE YEAR

No. of DCS
6

Total Consumers
353,907

Annual Revenue
7.24 Billion

Total Collection
6.99 Billion

Annual Energy Sales
743 GWh

Distribution Loss
8.59%

Consumer Number

The division office recorded a total of 353,907 consumer accounts by the end of the fiscal year 2081/82 and almost 89.99 % of them belonged to domestic category.

Sales

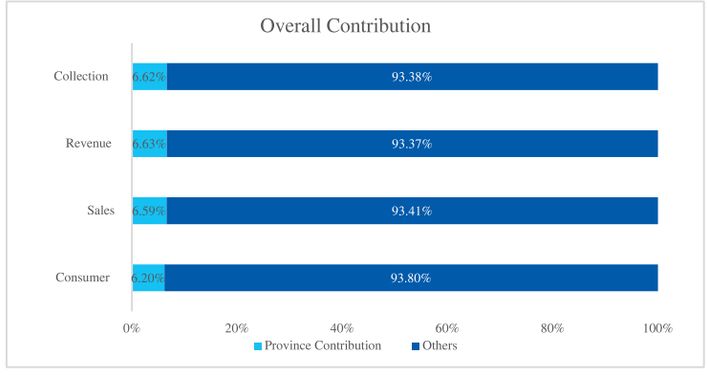
The annual energy sales of the division office is 743,948 MWH in fiscal year 2081/82. Hetauda and Bharatpur DCs are top two contributors in energy sales of the division office for this fiscal year with 35.55 % and 32.54 % contribution respectively.

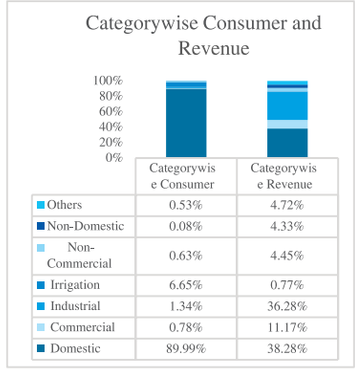
Revenue

The annual revenue of the division office is NRs. 7.24 billion in fiscal year 2081/82. Bharatpur and Hetauda DCs are top two contributors in revenue of the division office for this fiscal year with 35.08 % and 34.58 % contribution respectively.

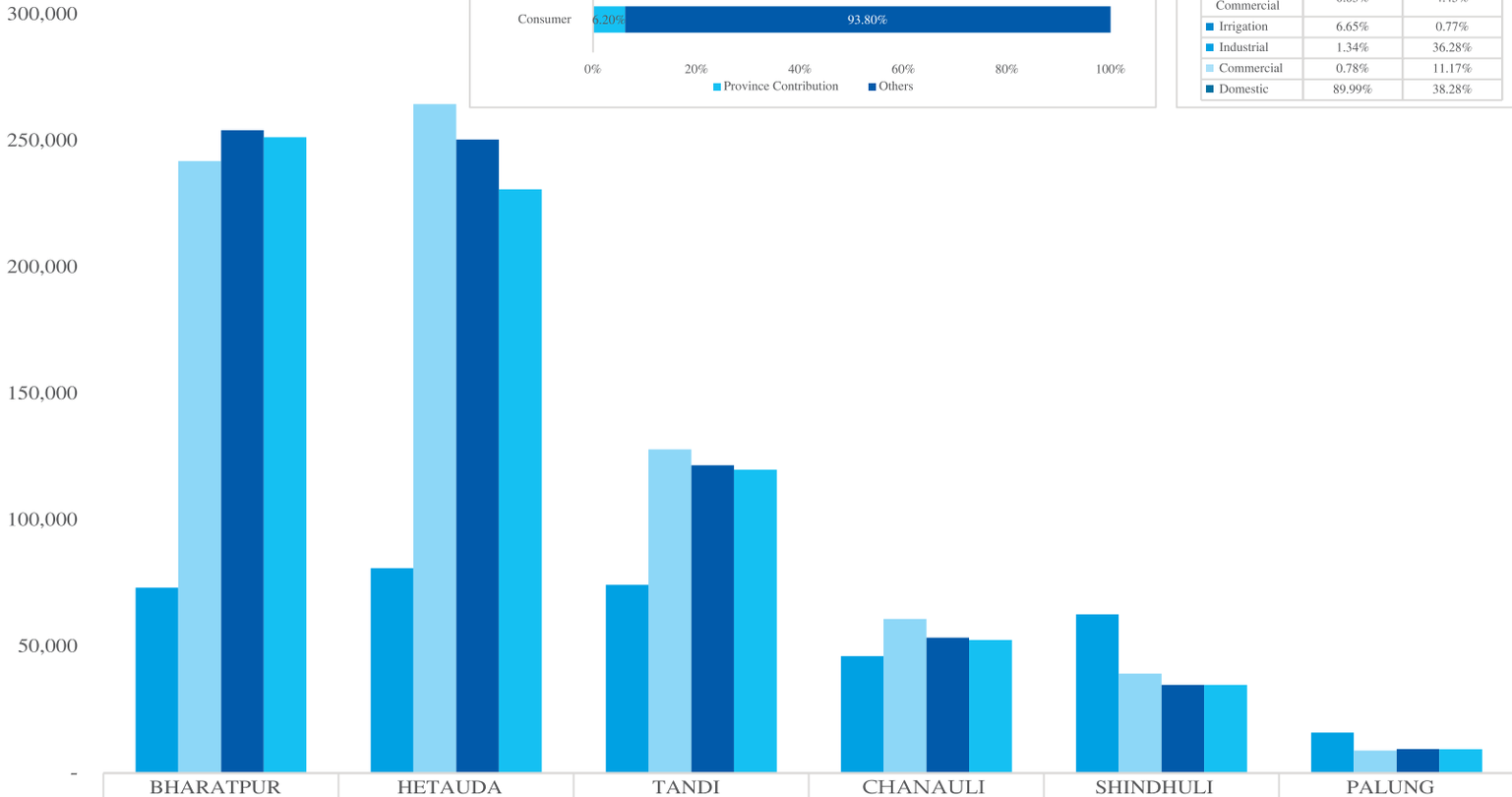
Free meter distribution program in Ratnanagar Tadi Distribution Centre

DC wise Consumer,Sales, Revenue and Collection





	Categorywise Consumer	Categorywise Revenue
Others	0.53%	4.72%
Non-Domestic	0.08%	4.33%
Non-Commercial	0.63%	4.45%
Irrigation	6.65%	0.77%
Industrial	1.34%	36.28%
Commercial	0.78%	11.17%
Domestic	89.99%	38.28%



	BHARATPUR	HETAUDA	TANDI	CHANAULI	SHINDHULI	PALUNG
Consumer Number	73,299.00	81,020.00	74,487.00	46,299.00	62,762.00	16,040.00
Sales (Mwh)	242,096.00	264,542.00	128,027.00	60,955.00	39,387.00	8,941.00
Revenue (Rs in 0000')	254,234.50	250,610.80	121,756.90	53,584.30	34,893.90	9,507.60
Collection (Rs in 0000')	251,534.30	230,910.50	120,022.90	52,684.90	34,902.90	9,383.20

Distribution Infrastructures (FY 2081/82)

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	316	339
11 kV Distribution Lines (in km)	3,484	3,861
33/11 kV Primary Sub-stations	11	13
Total Substation Capacity	144	173
LV Distribution Lines (in km)	9,107	10,024
Total Number of Distribution Transformer	3,102	3,489

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	2,090	2,102
Annual Revenue per Consumer (Rs./ Consumer)	20,184	20,473
Consumer per Distribution Transformer	110	101

Consumer Care

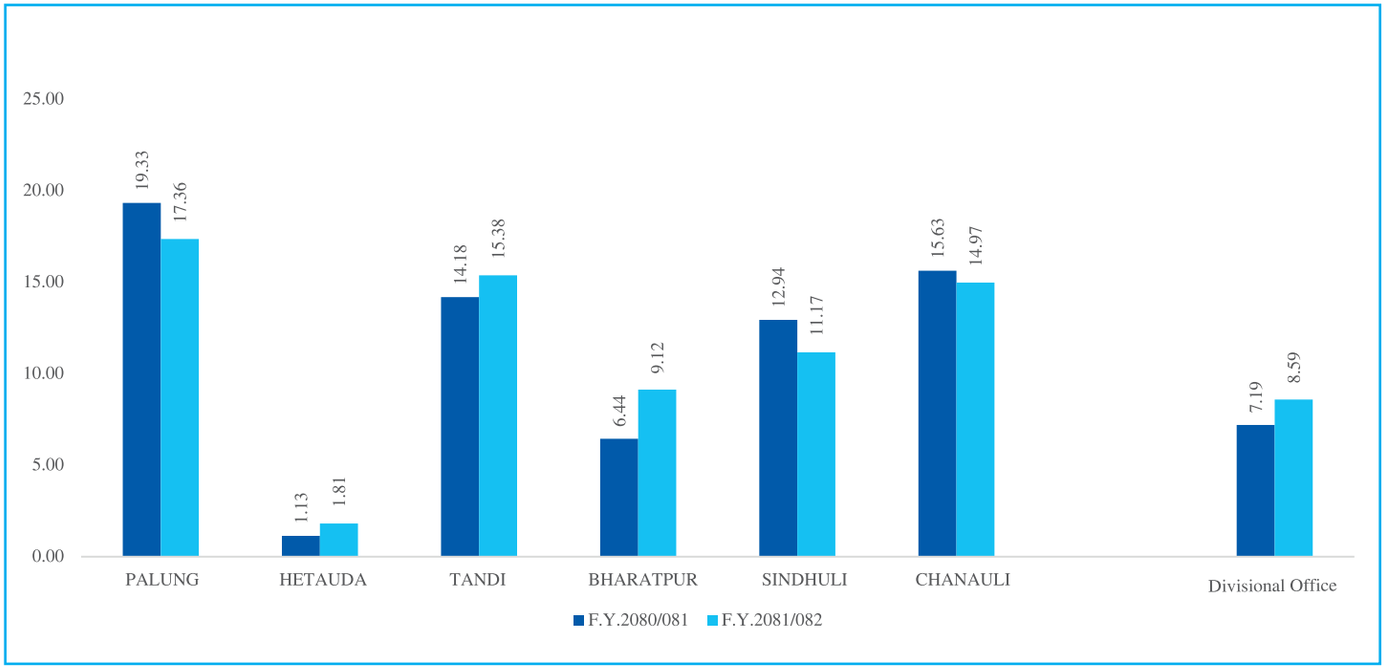
Special efforts were taken to improve the service at the consumer interface points. The staff from 6 distribution centers took special efforts, in their respective branches, to serve our valued consumers better during the year. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the obligation for consumers to come to counters for bill payment has ended, thus saving time of the consumers. Basic facilities like drinking water, proper seating arrangement and consumer help desk was properly managed and regularly monitored by the division office.

Loss Reduction Activities

During the year under review, various activities like substations upgradation, new 33 KV and 11 KV feeder construction, Distribution Transformer addition and upgradation, feeder capacity upgradation, Bush cutting that were done in the preceding years were continued to reduce the non-technical losses.

Tandi Distribution Center under the Bagmati Province Division Office, Hetauda successfully distributed electricity meters, service cables, and MCBs free of cost to 195 households in Kalika Municipality, Ward No. 9, Shaktikhor, Chitwan. This initiative targets economically disadvantaged and backward communities to ensure equitable access to electricity. Free meters have been provided so that no citizen is deprived of electricity. This distribution is expected to significantly curb unauthorized electricity use, reduce electricity losses, and minimize risks of electrical accidents marking a step forward in promoting safe, inclusive, and responsible electrification.

Comparative Analysis of DCs Losses of Two Consecutive Years



Bagmati Province Division Office and Distribution Centre Chiefs

Jitendra Kumar Jha
Division Chief, Bagmati Province Division Office

Narendra Bir Shrestha
Bharatpur DC

Rajendra Kumar Chaudhary
Tandi DC

Shivaram Yadav
Hetauda DC

Rudra Raj Bista
Palung DC

Raj Kumar Shrestha
Chanauli DC

Shishir Lamsal
Sindhuli DC

Gandaki Provincial Office, Pokhara

INTRODUCTION

Gandaki Provincial Office is one of the Seven Provincial Offices under the Distribution and Consumer Services Directorate, NEA. The Provincial Office is responsible for overall management of electricity distribution in Gorkha, Lamjung, Tanahu, Syangja, Kaski, Manang, Mustang, Myagdi, Parbat, Baglung and Nawalpur East districts of Gandaki Province.

The major activities of the Provincial Office include operation, maintenance, rehabilitation, monitoring and control of the electricity distribution networks up to 33 KV voltage level and 33/11 kV substations. The Provincial Office and Distribution Offices are responsible for consumer services activities such as new consumer connections, meter reading, billing, revenue collection, preventive/corrective maintenance of distribution networks and safety trainings as well as consumer awareness programs etc.

HIGHLIGHTS OF THE YEAR

No. of DCS
13

Total Consumers
5,15,596

Annual Revenue
7.22 Billion

Total Collection
7.20 Billion

Annual Energy Sales
740.42 GWh

Distribution Loss
8.67%

Operational Structure

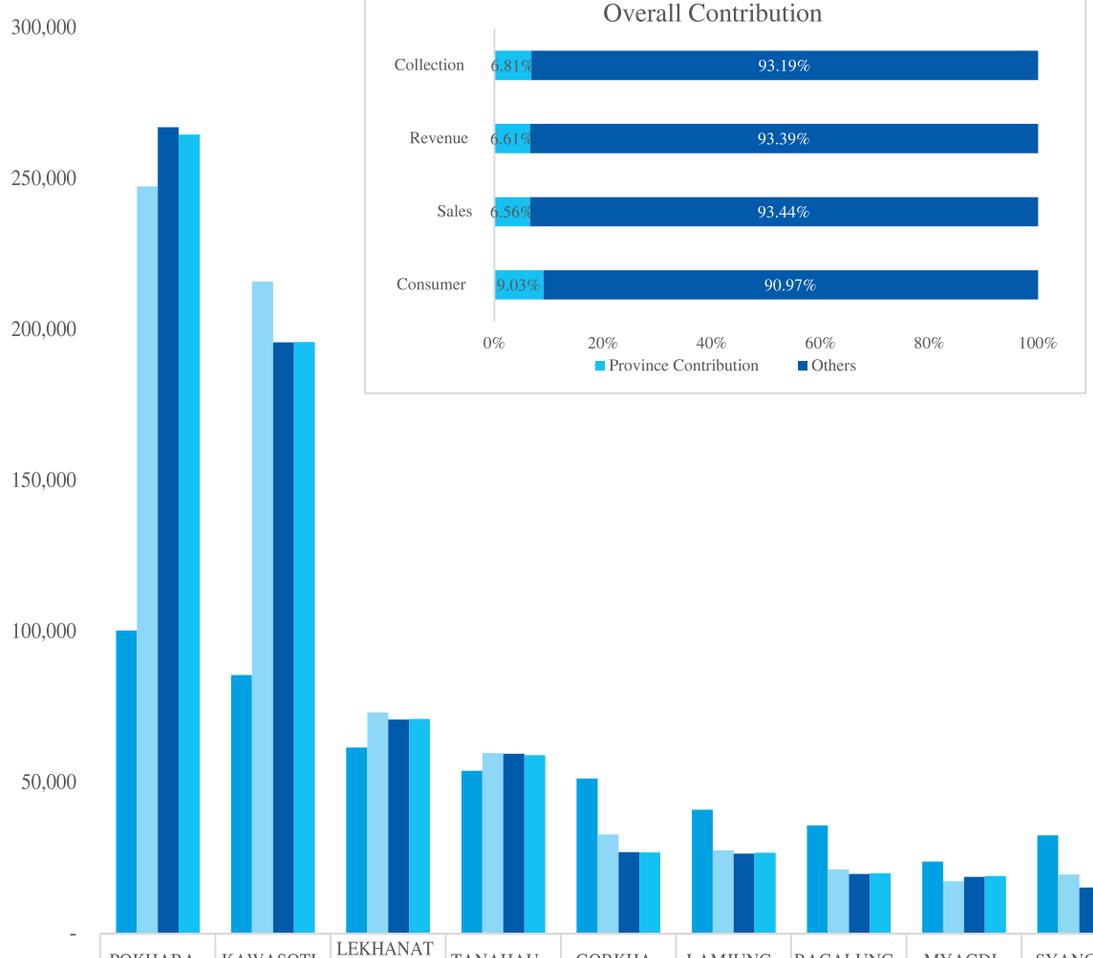
There are 13 (Thirteen) Distribution Centers (DCs) under the Gandaki Provincial Office spread over 11 districts of Gandaki Province. The provincial office comprises of Technical, Accounting and Administrative division which monitors various actions of the concern DCs. The source of fund is Government of Nepal and NEA itself.

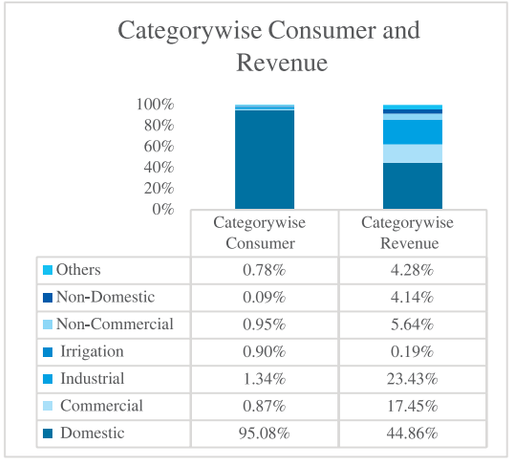
In addition to above mentioned functions connection agreements(CA)/ Net metering(NM) with IPP's, Solar Firms and micro hydro upto 33 KV voltage level falls under this provincial office. Supervision and monitoring of connection agreements(CA) and NM and amendment (if necessary) is carried out by the Provincial Office.

Consumer Number

By the end of fiscal year 2081/82, the provincial office recorded a total of 5,15,596 consumer accounts. Among them, Pokhara Distribution Center (DC) had the largest share with 1,00,424 consumers (19.47%), followed by Kawasoti DC with 85,699 consumers (16.62%) and Lekhnath DC with 61,633 consumers (11.95%). In terms of consumer type, the majority belong to the domestic household category, accounting for 95.08%, while the industrial category ranks second with 1.34% of the total consumers.

DC wise Consumer, Sales, Revenue and Collection





	Categorywise Consumer	Categorywise Revenue
Others	0.78%	4.28%
Non-Domestic	0.09%	4.14%
Non-Commercial	0.95%	5.64%
Irrigation	0.90%	0.19%
Industrial	1.34%	23.43%
Commercial	0.87%	17.45%
Domestic	95.08%	44.86%

	POKHARA	KAWASOTI	LEKHANATHA	TANAHAU	GORKHA	LAMJUNG	BAGALUNG	MYAGDI	SYANGJA	PARBAT	TATOPANI	MANANG	ARUGHAT
Consumer Number	100,424.00	85,699.00	61,633.00	53,921.00	51,381.00	41,061.00	35,934.00	23,869.00	32,587.00	20,774.00	1,481.00	457.00	6,375.00
Sales (Mwh)	247,563.98	216,025.43	73,244.08	59,784.61	32,854.31	27,609.43	21,244.82	17,395.80	19,611.92	16,797.56	4,740.09	1,242.48	2,311.11
Revenue (Rs in 0000')	267,181.64	195,864.32	70,952.66	59,586.81	27,038.13	26,527.78	19,838.97	18,847.70	15,329.34	13,426.50	3,526.13	1,955.07	1,939.39
Collection (Rs in 0000')	264,693.52	195,994.03	71,174.29	59,103.23	26,932.12	26,839.29	19,957.58	19,090.39	15,388.69	13,346.51	3,515.10	2,036.50	1,931.00

Sales

The annual energy sales of the provincial office is 74,0425 MWh in fiscal year 2081/82 which contributes to 7.76% higher than previous F.Y. 2080/81. Pokhara DC and Kawasoti DCs are top two contributors in energy sales of the provincial office for this F.Y. 2081/82 year with 33.43% and 29.18% respectively.The energy consumption is massively growing in Transportation Category(EV-Charging Station) with 586.73% with compared to the last F.Y.2080/81.

Revenue

The annual revenue earned by the provincial office is NRs. 0.72 billion which is increased by 7.62% compared with last F.Y. 2080/81. Pokhara DC and Kawasoti DC are the top two contributors in revenue earned of the provincial office for this fiscal year with 37% and 27.13% contribution respectively. Out of this total energy consumption, the domestic, Industrial and Commercial consumers are the top three biggest contributors with 44.86%, 23.43% and 17.45% respectively. The Online Payment status is also encouraging and total of 3,44,434 consumers payment made in the Ashad 2082, out of which 1,94,374 consumers ware billed via Online medium which is 56.43% by consumer numbers and 37.07% by collection amount.

Distribution Infrastructures

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	771	807
11 kV Distribution Lines (in km)	5,603	5,906
33/11 kV Primary Sub-stations	26	26
Total Substation Capacity	243	262
LV Distribution Lines (in km)	14,306	15,123
Total Number of Distribution Transformer	4,179	4,551

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	1,379	1,436
Annual Revenue per Consumer (Rs./ Consumer)	13,468	14,003
Consumer per Distribution Transformer	119	113

Consumer Care

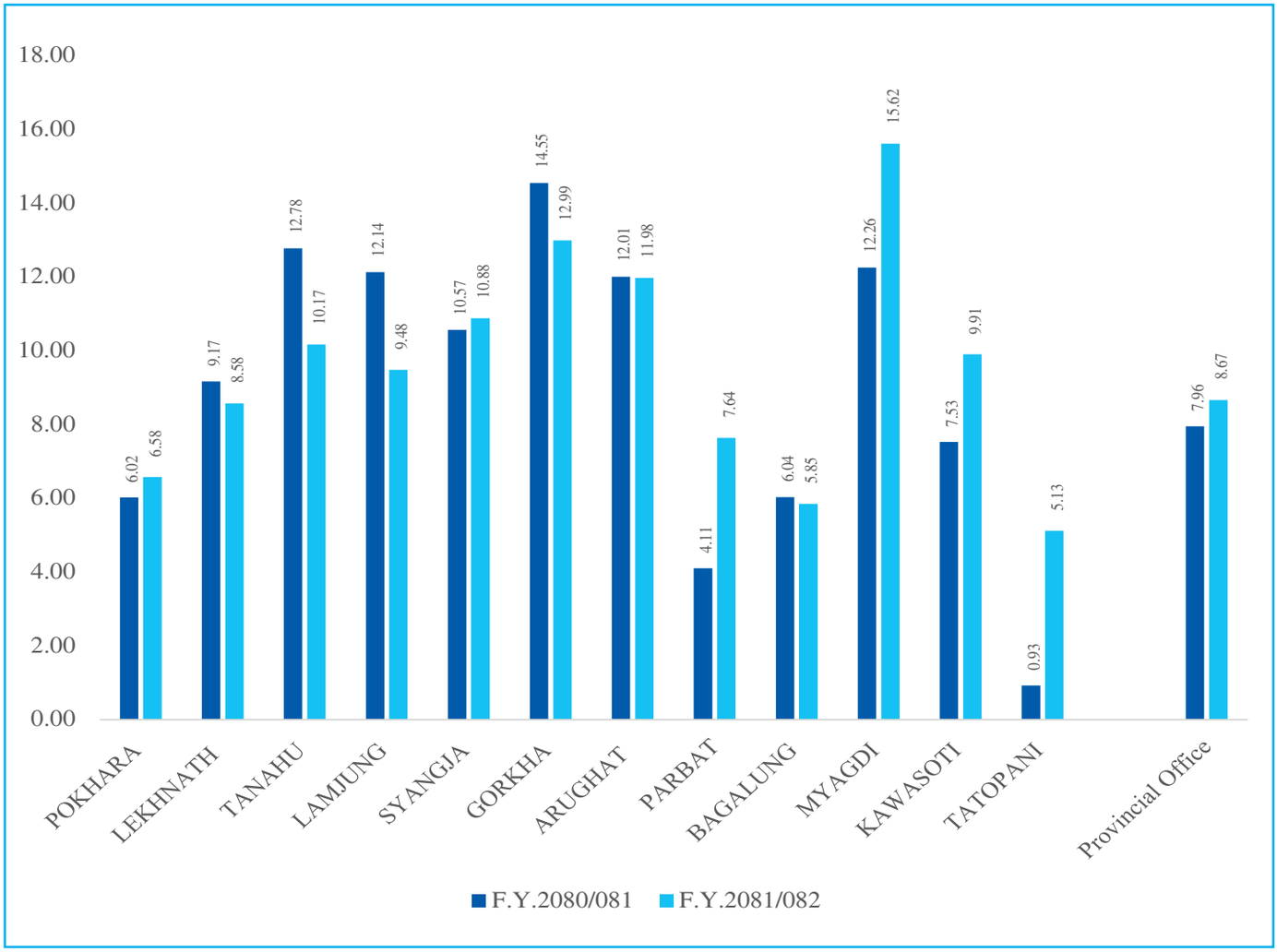
Distribution centers works as direct service providerfor front desk of NEA to its consumers. So, special efforts were taken to improve the quality of service at the distribution center. Nepal Electricity Authority has made arrangements to submit electricity bill through the online systems since Bhadra 13, 2074. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the compulsion for consumers to come to counters for bill payment has ended. One door system has been introduced in all distribution center to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer.

From year (2079/080) no light services has been started for whole province by establishing Centered CALL CENTER at Gandaki provincial office. Consumer can register their complains here using 1150 hot line number . This service has been given 24 hours for all 13 Numbers of DCS consumers under Gandaki Provincial Office.

Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses. During the year under review, various measures taken in the preceding years were continued to reduce the loss. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Conductor upgrading, ACSR Conductor replacement with ABC cable work, Regular Bush Cuttings, Earthing Improvement, Load balancing work, Replacement of not working or defective meters, Meter Resealing etc. are carried out in huge scale to reduce the technical loss. Strict measures for electricity theft control such as confiscation of electric equipment's and taking legal action against culprits were also conducted in various distribution centers. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. Various monitoring activities were conducted in different DCs for the improvement of consumer satisfaction through consumers feedback. We were also monitored the staff quarter energy meters in different DCs and recovered the some amount of stock units as well. Most of the three phase meters were replaced by smart meters in all DCs.

Comparative Analysis of DCs Losses of Two Consecutive Years



Way Forward

Provided the geographical disparity, Gandaki province has fairly increased the electrification up to 99.80% including all renewable sources of energy and grid supply. With active participation and funding from both federal and provincial government, Gandaki provincial office has taken the lead with all distribution centers to fulfill the government vision of "Electricity for All" in due target time. Seti Hydropower project in Tanahun is carrying out electrification project in southern part of Tanahu District.

Gandaki province is rich in hydropower resource. About 829 MW of hydropower projects including IPPs, NEAand NEA Subsidiary Company are in operation, however the total peak demand of whole province is around 120 MW. So, the generated energy is transmitted from Gandaki Province to Bagmati and Lumbini Province. So, planning and implementation of industrial area (more than 100 MW) nearby Palungtar substation and Khairenitar substation, willhelp to reduce the transmission losses and energy-spill. Any encouragement from government to the industries in this province considering the loss-reduction, employment opportunities and the development of the province, will also help to the redundancy of power system.

The electrical supply in Mustang and Manang districts is highly prone to extreme climate conditions, landslide and flood at various points. This has become one of the chronic problem in those area, hence with proper study line strengthening project is expected to be launched as soon as

possible by building towers to skip landslide prone areas and re-routing the 33kV transmission lines.

Pokhara, being the center of the province, is witnessing gradual increase in load demand and with more investment coming into tourism sector the demand of reliable electrical supply is growing. In cooperation with transmission directorate a new substation is under construction in Birauta, Pokhara to increase the reliability of the supply in Pokhara valley. Rural feeders are shifted to Hemja substation decreasing outages from remote areas affecting the core load center. Construction of 33 kV line from Udipur to Manang was completed in previous fiscal year,it has been successfully charged and now is in operation. Similarly Construction of Palungtar to chiplette of Gorkha 33 KV Line is completed in previous FY and being charged Successfully.Righa - kharbang 33 KV Line of Baglung District is on the final srage of Completion and Kharbang - Paudi Amarai new 33 kV line is initiated to increase the reliability and quality of service in Baglung District . Same as adding reliability 33 kV line from Kobang to Chusang is under construction.

To decrease the technical loss and add reliability to the electrical services, distribution substations and lines construction, rehabilitation and upgradation projects are implemented in many parts of the project. Completion of 33/11 kV Darbang substation at Myagdi district will result in decrease of technical loss and increase in line reliability caused due to long feeder length. Similarly, Bojhapokari 33/11 kV substation will increase the line reliability in the northern part of Nawalpur district. Ghyampesal 33/11 kV Substation at Gorkha will help in reducing the loss and increase in line reliability at that areas. 33/11 kV Ghiring and Saranghat Substation will help to increase service reliability at southern part of Tanahun District and northern part of Nawalpur District.

Line maintenance works at Lamjung DC

Gandaki Provincial Office and Distribution Centre Chiefs

Bikram Kumar Amatya
Provincial Chief, Gandaki Provincial Office

Raj Kumar Raman
Lekhnath DC

Jitendra Yadav
Pokhara DC

Satya Narayan Gami
Myagdi DC

Meghnath Bhattarai
Lamjung DC

Shiva Narayan Goshali
Kawasoti DC

Pawan Paudel
Baglung DC

Pritam Raj Bista
Parbat DC

Ramesh Banjade
Syangja DC

Chij Bahadur Gurung
Gorkha DC

Bijay Raj Regmi
Tanahu DC

Raju Mahato
Manang DC

Hem Raj Chapagain
Arughat DC

Prakash Kafle
Tatopani DC

Lumbini Provincial Office, Butwal

INTRODUCTION

The overall management of electricity distribution services in Districts of Lumbini Province: Nawalparasi(West), Rupandehi, Kapilvastu, Palpa, Gulmi, Argakhanchi, Dang, Pyuthan, Rolpa, Rukum East, Banke and Bardiya are undertaken by Lumbini Provincial Office under Distribution and Consumer Services Directorate (DCSD). The major activities of this Provincial office include construction, operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV substations as well as consumer services activities such as new consumer connections, meter reading, billing and revenue collection as well as regular supervision of consumer services and distribution activities.

HIGHLIGHTS OF THE YEAR

No. of DCS
11

Total Consumers
572,887

Annual Revenue
15.74 Billion

Total Collection
15.26 Billion

Annual Energy Sales
16,62.47 GWh

Distribution Loss
8.61%

Consumer Number

Lumbini Provincial Office recorded total of 572,887 consumer by the end of the fiscal year 2081/82, which is 3.81% higher than that of previous fiscal year. Bhairahawa DC has highest number of consumers totaling 92,640 followed by Butwal DC with 82,211 consumers while Amuwa DC has least no. of consumers i.e. 27,044. The number of consumers in this provincial office contributed 10.04 % out of total consumers in NEA.

Sales

Lumbini Province, Provincial Office, Butwal contributed 14.73 % in annual total sales of NEA in fiscal year 2081/82. In this fiscal year 1,662,472 MWh of electricity was sold in the region, which is 13.92 % higher than that of previous year. Out of the total sales, Bhairahawa DC accounts for 23.74 % of total sales in the region.

Revenue

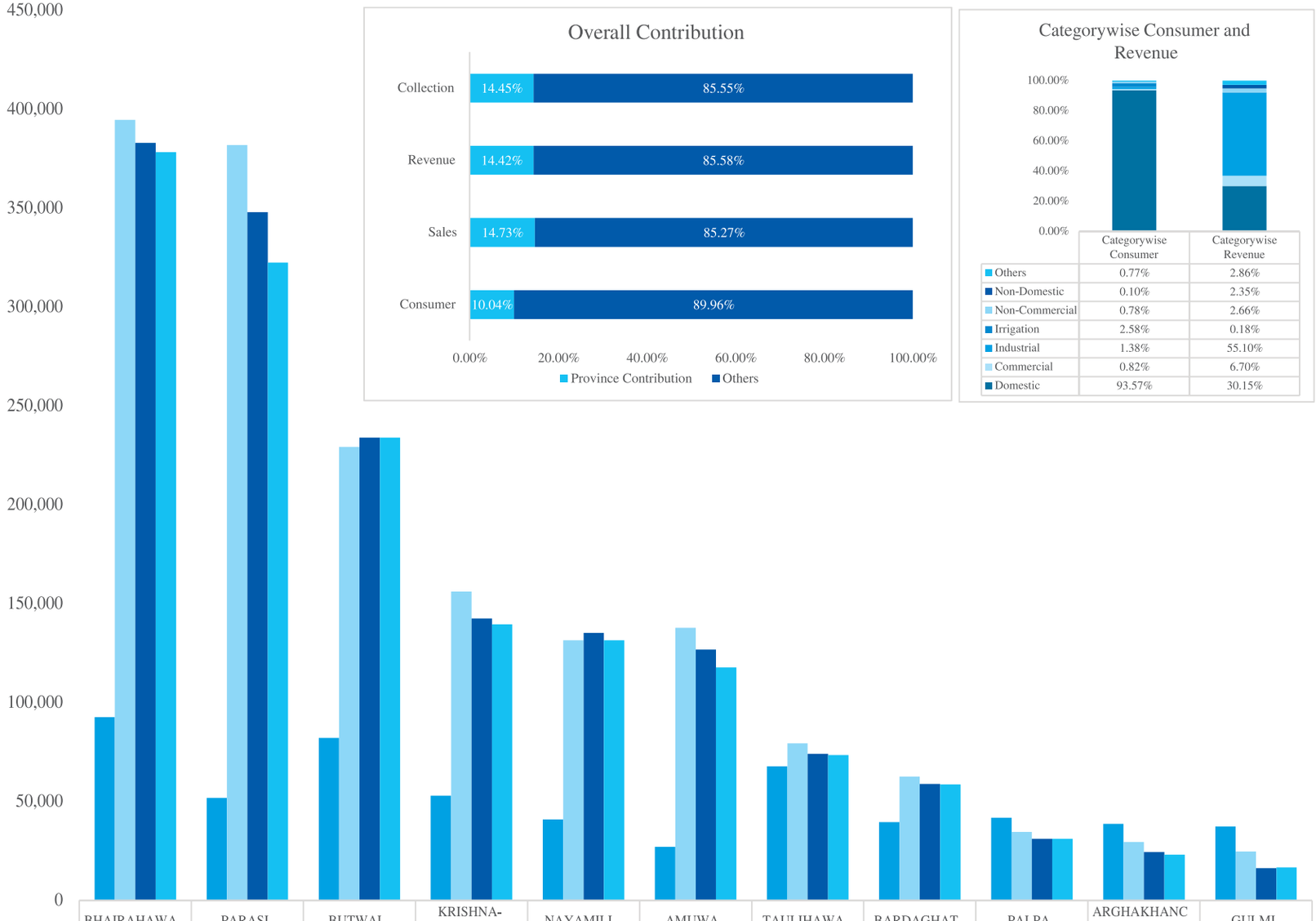
The revenue from electricity sales in this provincial office during the last fiscal year was NRs.. 15.74 billion which is 13.15% higher than that of previous year and accounting 14.42% in total electricity sales revenue of NEA. Bhairahawa DC contributes 24.32% of total provincial revenue followed by Parasi DC and Butwal DC with 22.10% and 14.86% contribution respectively.

The domestic consumers accounts to 93.57% of total consumers. There are 1.38%, 0.82% and 4.23% consumers from Industrial, Commercial and others consumers respectively.

Distribution Infrastructure

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	1,359	1,513
11 kV Distribution Lines (in km)	4,830	5,109
33/11 kV Primary Sub-stations	25	27
Total Substation Capacity	365	410
LV Distribution Lines (in km)	14,847	15,066
Total Number of Distribution Transformer	4,813	5,247

DC wise Consumer, Sales, Revenue and Collection



	Categorywise Consumer	Categorywise Revenue
Others	0.77%	2.86%
Non-Domestic	0.10%	2.35%
Non-Commercial	0.78%	2.66%
Irrigation	2.58%	0.18%
Industrial	1.38%	55.10%
Commercial	0.82%	6.70%
Domestic	93.57%	30.15%

	BHAIRAHAWA	PARASI	BUTWAL	KRISHNA-NAGAR	NAYAMILL	AMUWA	TAULIHAWA	BARDAGHAT	PALPA	ARGHAKHANCHI	GULMI
Consumer Number	92,640.00	51,812.00	82,211.00	52,900.00	40,961.00	27,044.00	67,825.00	39,651.00	41,830.00	38,691.00	37,322.00
Sales (Mwh)	394,645.86	381,947.90	229,309.00	156,198.15	131,497.38	137,889.00	79,447.00	62,616.35	34,676.22	29,525.26	24,720.21
Revenue (Rs in 0000')	383,009.70	347,994.01	234,027.00	142,585.01	135,235.15	126,861.40	74,148.20	58,939.48	31,204.79	24,438.31	16,314.37
Collection (Rs in 0000')	378,303.99	322,459.40	234,034.80	139,559.26	131,581.89	117,858.40	73,487.90	58,616.41	31,190.04	23,105.06	16,692.69

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	2,644	2,901
Annual Revenue per Consumer (Rs./ Consumer)	25,220	27,488
Consumer per Distribution Transformer	115	109

Customer Care

All employees of the 11 Distribution Centers put their maximum efforts to provide the smooth service to our valued customers. Consumers were encouraged to pay their electricity bill through the online payment gateways. Consumers can pay their bills via different service providers like eSewa, Khalti etc.

NEA's regular works for addition of new transformers, shifting of distribution transformers near center of load density, converting single phase line to three phase line and upgradation of substation capacity have key roles in voltage improvement providing quality supply. Round the clock no-light services have been implemented in most of the urban no-light centers.

Loss Reduction Activities

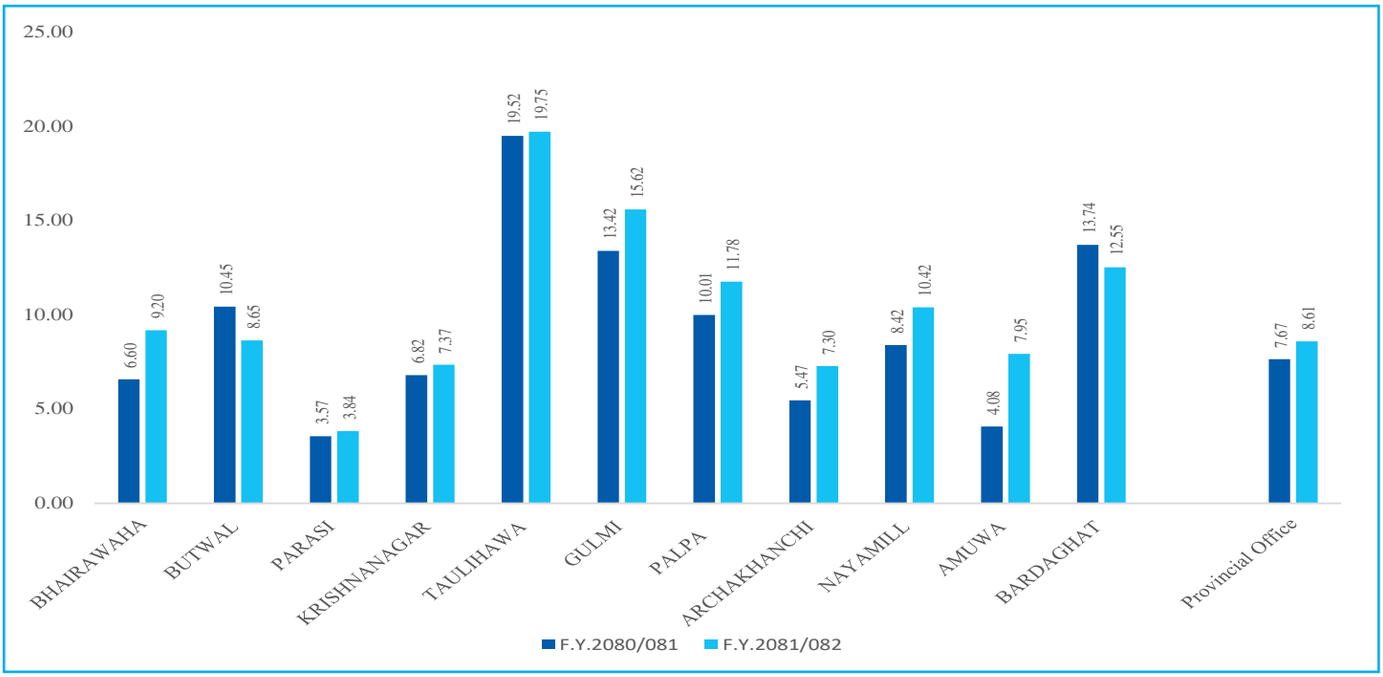
Giving top priority to bring down the distribution loss (Technical and non-technical loss) within the target set by management, following activities were performed:

- Upgrading the distribution lines with higher size conductor.
- Installation of the distribution transformers at load centers where consumers are getting the power supply from very long low voltage line so that the length of LV line could be reduced.
- Adding new feeders and shifting the load from heavily loaded feeders to lightly loaded feeder for optimal power flow and minimum technical losses.
- Phase balancing of distribution transformers.
- Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers.

Way Forward

- Loss reduction and Revenue increasing activities will be continued with more précised and focused way.
- Construction of total eight numbers of 33kV lines will be started from Hakui 132/33 kV substation which is under construction at Ramgram-16, Nawalparasi(West) to cater increased industrial power demand from existing as well as new industries in Parasi and Bhairahawa area. Parasi and Bhairahawa DC each will use 4 numbers of above mentioned 33 kV lines.
- 33/0.4kV transformers being used in hilly areas (Arghakhanchi, Palpa and Gulmi) by tapping from 33kV trunk line will be replaced by 11/0.4kV transformers after constructing 11kV feeders.

Comparative Analysis of DCs Losses of Two Consecutive Years



Lumbini Provincial Office and Distribution Centre Chiefs

Shambhu Kusiyat Yadav
Provincial Chief, Lumbini Provincial Office

Ritesh Gupta
Nayamill DC

Sanjay Kumar Mishra
Bhairahawa DC

Sushil Paudel
Krishnanagar DC

Kapil Raj Pandey
Butwal DC

Suraj Regmi
Parasi DC

Kiran Khanal
Amuwa DC

Trilochan Bhattarai
Arghakhanchi DC

Dilip Marasini
Palpa DC

Prashant Jha
Bardghat DC

Gaurab Pandey
Taulihawa DC

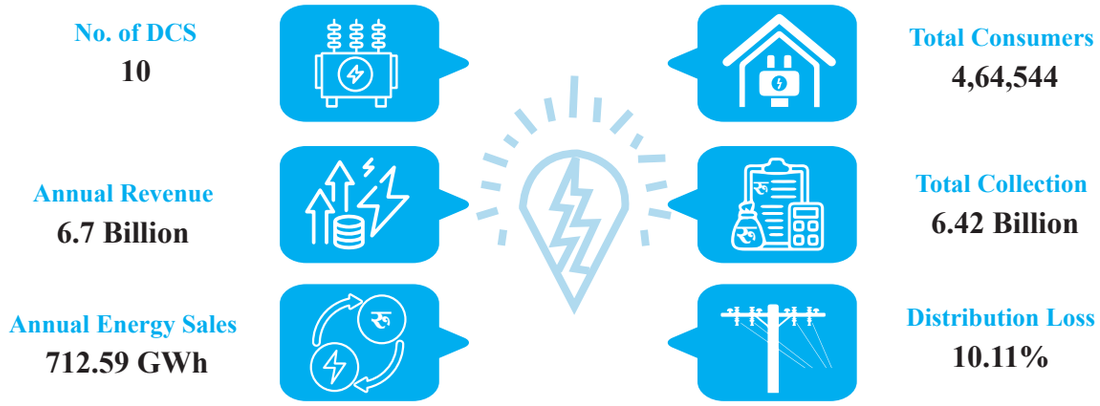
Arjun Pokhrel
Gulmi DC

Lumbini Province Division Office, Nepalgunj

INTRODUCTION

Lumbini Province Division Office, Nepalgunj, is responsible for overall management of electricity distribution services, operation and maintenance of electrical distribution networks in 6 districts in Lumbini Province. Under its supervision, there are 10 distribution centers that are responsible for operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage level and 33/11 kV sub-stations as well as consumer services activities such as new consumer connections, meter reading, billing and revenue collection.

HIGHLIGHTS OF THE YEAR



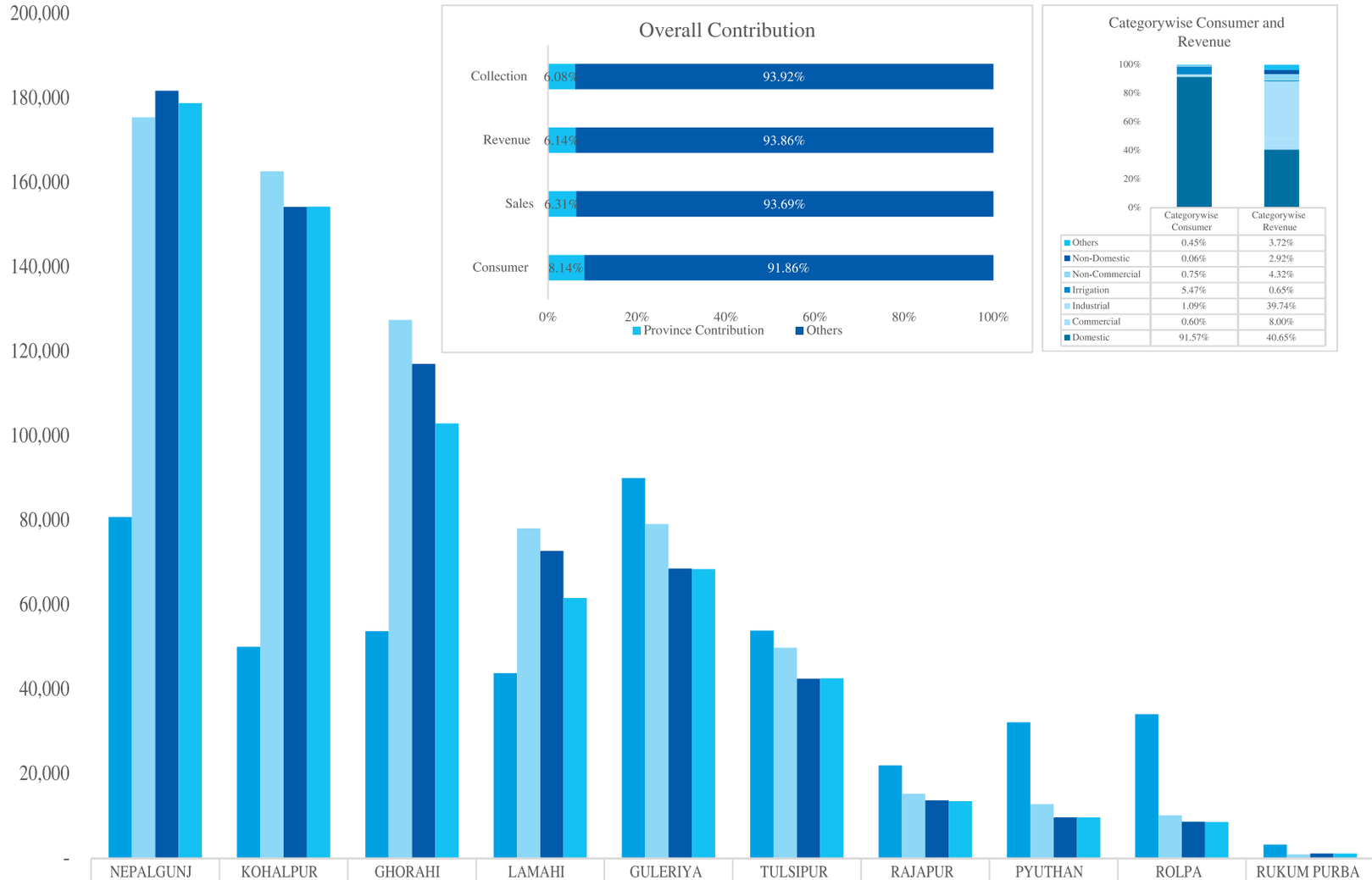
Operational Structure

There are 10 distribution centers operating under Lumbini Province Division Office, Nepalgunj, There is a technical section comprising of Electrical and Mechanical engineers who look after all the technical matters, projects, planning & development and corporate work of the allocated areas. Rural Electrification and sub-station activities within the area are coordinated by the technical section. The finance and revenue functions are carried out by the Assistant Director of the finance division. The division office is provided with a separate administrative officer to attend human resource function. The source of fund is Government of Nepal and NEA itself. There are various 33 kV transmission lines and substation projects funded by Government of Nepal under this provincial office.

Consumer Number

Lumbini Province Office recorded 464544 consumer accounts by the end of the fiscal year 2081/82.The majority of consumer accounts were registered in the domestic category.

DC wise Consumer, Sales, Revenue and Collection



	Categorywise Consumer	Categorywise Revenue
Others	0.45%	3.72%
Non-Domestic	0.06%	2.92%
Non-Commercial	0.75%	4.32%
Irrigation	5.47%	0.65%
Industrial	1.09%	39.74%
Commercial	0.60%	8.00%
Domestic	91.57%	40.65%

	NEPALGUNJ	KOHALPUR	GHORAHI	LAMAHI	GULERIYA	TULSIPUR	RAJAPUR	PYUTHAN	ROLPA	RUKUM PURBA
Consumer Number	80,835.00	50,141.00	53,789.00	43,876.00	90,099.00	53,963.00	22,062.00	32,274.00	34,204.00	3,301.00
Sales (Mwh)	175,544.43	162,713.12	127,564.84	78,186.63	79,186.90	49,935.88	15,346.42	12,874.22	10,237.95	1,006.88
Revenue (Rs in 0000')	181,844.36	154,313.27	117,160.95	72,814.90	68,644.73	42,621.80	13,774.66	9,747.50	8,677.05	1,165.58
Collection (Rs in 0000')	178,898.72	154,395.37	103,038.33	61,673.22	68,566.78	42,647.45	13,581.66	9,754.76	8,630.06	1,205.81

Sales

A total of 712.59 GWh of energy was sold in the F.Y. 2081/82.

Revenue

The gross revenue of NRs. 6.7 billion was earned in F.Y. 2081/82.

Distribution Infrastructures

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	1,242	1,274
11 kV Distribution Lines (in km)	3,889	4,188
33/11 kV Primary Sub-stations	13	13
Total Substation Capacity	207	213
LV Distribution Lines (in km)	11,712	11,844
Total Number of Distribution Transformer	3,329	3,440

Consumer Services Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	1,461	1,533
Annual Revenue per Consumer (Rs./ Consumer)	13,807	14,439
Consumer per Distribution Transformer	113	135

Consumer Care

Distribution centers have always been considered and are acting as interfacing units between NEA and its consumers. Management of load growth has always been one of the consistent challenges throughout the nation and as in preceding years, efforts were taken to ensure satisfactory service to NEA's valued customers.

- Transformer Workshop: The transformer workshop under this provincial office has now begun full-scale operations. In its first year of operation (FY 2081/82), the workshop successfully repaired approximately 150 distribution transformers from various distribution centers (DCs).
- Transformer Testing Laboratory: The transformer testing facility established in Kohalpur, Banke is now fully operational. This lab is capable of testing both distribution and power transformers with ratings up to 33 kV and 10 MVA.
- Customer Relationship Management (CRM): NEA has implemented a CRM system to efficiently handle customer grievances and to simplify the application process for new energy meter connections.
- Online Billing System: The recently launched online bill payment system has eliminated the necessity for customers to physically visit billing counters. This initiative has saved time and effort for both consumers and NEA staff. Bills can now be paid conveniently through multiple digital payment platforms.
- Quality and Reliable Power Supply: To address issues related to low voltage and poor power factor in several substations, capacitor banks have been installed to enhance system voltage and improve power factor. Routine upgrades such as installing new transformers, relocating transformers to high-load areas, adding new distribution lines, and strengthening substations have significantly contributed to voltage stabilization. In addition, overloaded feeders in urban zones have been replaced with conductors of higher capacity to ensure improved current carrying ability and to offer an uninterrupted power supply.
- No Light Complaints: The distribution centers under this provincial office promptly respond to consumer complaints regarding power outages. Once a complaint is received and registered in the "No Light" logbook, appropriate action is taken immediately.
- New Meter Installations: Distribution centers have been directed to install new meters promptly following the submission of customer applications. Several centers have adopted an "on-demand" approach to meter installation. Additionally, a strict deadline has been set for completing the Grid Impact Study (GIS) for consumers requesting electricity supply of 5 MVA or more.

Loss Reduction Activities

One of the primary goals of any Distribution and Consumer Services (DCS) office is to minimize energy losses that are inherently present within the electricity distribution network. These losses are typically divided into two broad categories: technical losses and non-technical losses. Technical losses occur due to inherent characteristics of electrical equipment, such as power dissipation in conductors, transformers, and other system components, and can be reduced to some extent

through system improvements—such as upgrading aging infrastructure, installing capacitors, optimizing conductor sizes, and relocating transformers to load centers. However, while technical losses are measurable and manageable through engineering interventions, non-technical losses—which often stem from electricity theft, faulty metering, billing errors, and unauthorized connections—pose a much greater challenge.

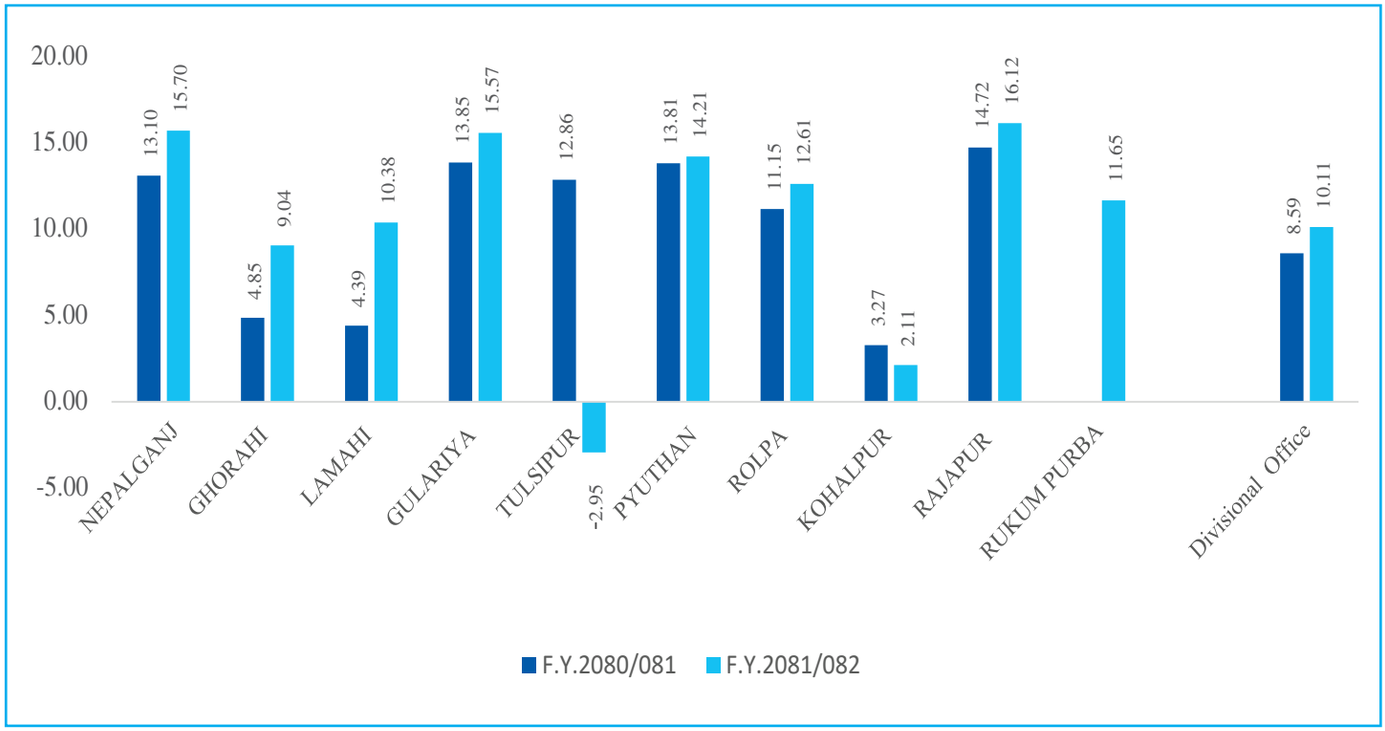
The reduction of non-technical losses, particularly in semi-urban and rural areas, continues to demand strategic planning, inter-agency collaboration, and persistent monitoring. These losses not only affect NEA's financial performance but also compromise the reliability and fairness of the power supply system. Therefore, coordinated efforts among all units of NEA, in collaboration with local governments, community representatives, and law enforcement agencies, are crucial to controlling and ultimately minimizing such unauthorized usage of electricity.

During the fiscal year under review, a number of previously initiated measures were intensified to address this pressing issue. DCS offices across the region undertook large-scale field inspections, focusing particularly on theft-prone zones. Special task forces were mobilized to perform on-the-spot meter inspections, check the integrity of NEA-approved miniature circuit breakers (MCBs), and verify suspected cases of meter bypass and unauthorized tapping (commonly known as hooking). These operations were carried out with the support of local administrative bodies and security personnel to ensure both legal backing and field-level enforcement. In confirmed cases of electricity theft, stringent punitive actions were implemented, including confiscation of illegal wiring and devices, and in many cases, formal legal proceedings were initiated against the offending consumers.

In addition to these direct anti-theft measures, another significant step was the widespread disconnection of power supply to consumers who had accumulated overdue bills. While this step may not directly affect technical loss figures, it has proven to be a strong deterrent against negligence and misuse. More importantly, it has led to an increase in revenue recovery and helped reinforce NEA's policies on billing discipline. This move also raised consumer awareness regarding the importance of timely payments and discouraged practices that could lead to energy theft as a substitute for regular billing.

Moreover, such disconnection campaigns have also made consumers more conscious of their responsibilities, encouraging them to report cases of theft and irregularities

Comparative Analysis of DCs Losses of Two Consecutive Years



in their communities. In this way, the initiative has indirectly contributed to community-based monitoring, enhancing the effectiveness of NEA's loss reduction strategies.

Way Forward: Achievements and Prospects

1. Substantial Increase in Total Substation Capacity

By the end of fiscal year 2081/82, the total installed capacity across all substations under the Distribution and Consumer Services (DCS) offices reached 412 MVA. This significant increase has helped to improve system stability, meet rising electricity demand, and reduce overloading issues across multiple regions. Major contributions to this achievement came from substations like Nepalgunj New (48.6 MVA), Kohalpur Grid (33.2 MVA at 33/11kV), and Gulariya (24 MVA).

2. Operationalization of New Substations

Several new substations were brought into operation during the period, strengthening the local distribution networks. These include Simra Substation (16 MVA) under Gulariya DC, Rajapur's Naya Gau (8 MVA), Holeri and Lakuri/ Khumel (3 MVA each) in Rolpa, and Ashwora and Tulsipur (8 MVA and 16 MVA) under Tulsipur DC. These additions have improved power availability and load management at the local level.

3. Advancement of Under-Construction Substations

Key substations are currently under construction, aimed at reinforcing supply in high-demand and remote areas. Notable among them are Maurighat and Gadawa (8 MVA each) in Lamahi DC, and Rukumkot and Kakri under Rukum East DC. These ongoing projects reflect the momentum in infrastructure development and the commitment to improving electricity access across the region.

4. Strengthening of Urban and Rural Distribution Networks

The capacity expansion and new installations have led to better voltage regulation and improved power quality across both urban and rural areas. Urban substations such as Ghorahi (32 MVA) and Nepalgunj Old and New (combined 81.8 MVA) were upgraded or expanded to handle growing urban loads, while rural areas like Pyuthan, Rolpa, and Rajapur saw first-time or additional capacity installations to ensure equitable energy distribution.

Repair and Maintenance works, Lumbini Province Division Office

Lumbini Province Division Office and Distribution Centre Chiefs

Deepak Gautam
Division Chief, Lumbini Province Division Office

Suresh Kumar Mahato
Tulsipur DC

Kamar Alam Khan
Gulariya DC

Diwakar Pyakurel
Ghorahi DC

Jagannath Lamichhane
Nepalgunj DC

Madhav Mahat
Kohalpur DC

Pramod Khanal
Rukum Purba DC

Youbraj Rawat
Lamahi DC

Mahendra Kumar Das
Pyuthan DC

Asheshwar Sah
Rolpa DC

Anil Kumar Chaudhary
Rajapur DC

Karnali Provincial Office, Surkhet

INTRODUCTION

Karnali Provincial Office, Surkhet is one of the seven provincial offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution in 10 districts of Karnali Province. As of now, there are 10 distribution centers (DCs) operating under this provincial office. The major activities undertaken by this provincial office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage level, 33/11 kV sub-stations and consumer services activities such as new consumer connections, meter reading, billing and revenue collection.

HIGHLIGHTS OF THE YEAR

No. of DCS
10

Annual Revenue
0.95 Billion

Annual Energy Sales
100.39 GWh

Total Consumers
178,794

Total Collection
0.93 Billion

Distribution Loss
17.02%

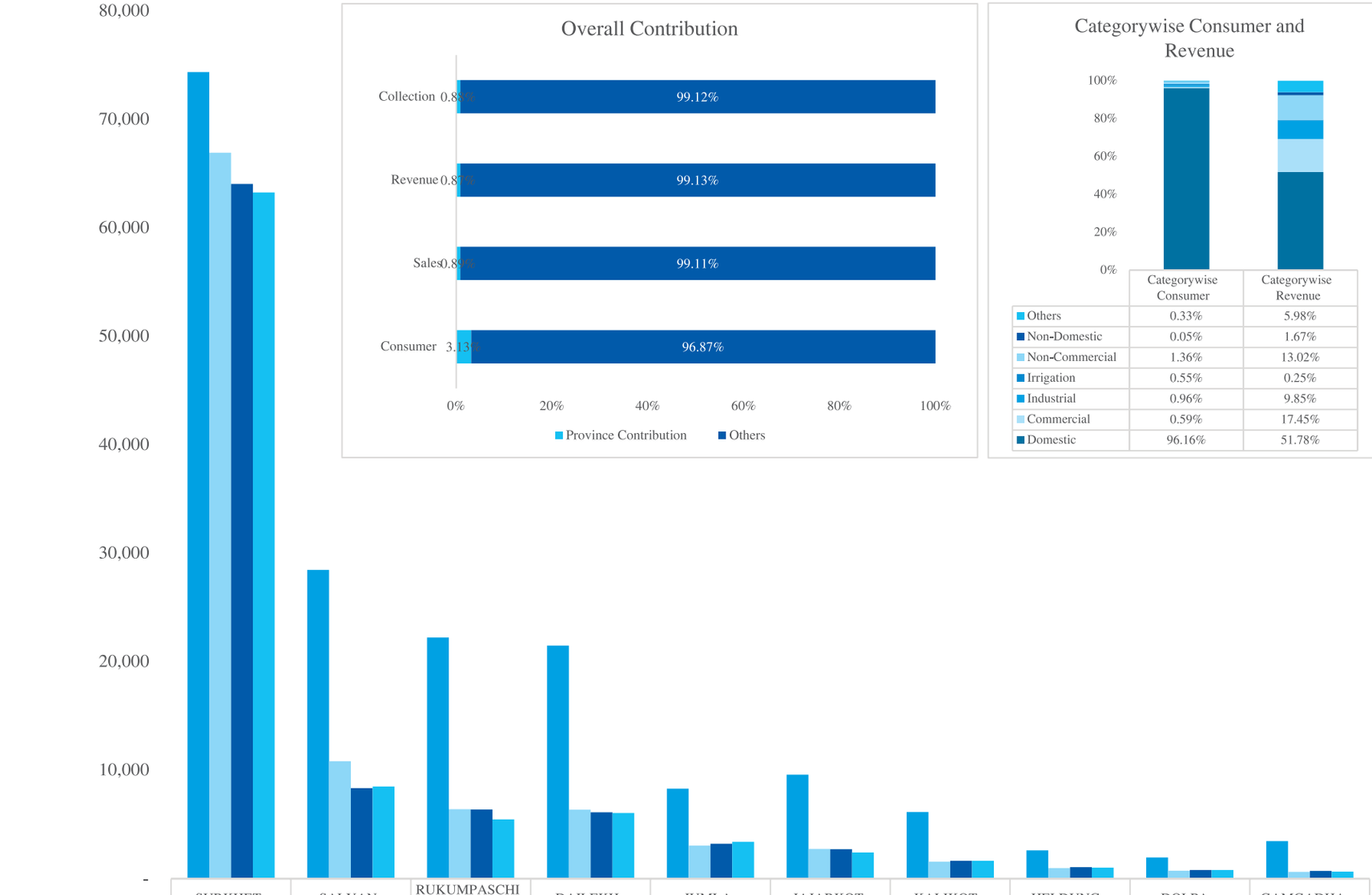
Operational Structure

All provincial offices comprise of technical, financial and administrative sections which, with their joint efforts, monitor various actions of the concerned DC offices. The source of fund is Government of Nepal and NEA itself and as of now, there are fifteen 33 kV transmission line and sub-station projects funded by Government of Nepal under this provincial office.

Consumer Number

Karnali Provincial Office recorded 178,794 consumer accounts by the end of the fiscal year 2081/82. The majority of consumers were registered in the domestic category which sums about 96.16 % approximately while the second largest consumer category was found to be non-commercial which accounts for 1.36 % of the total consumers.

DC wise Consumer, Sales, Revenue and Collection



	Categorywise Consumer	Categorywise Revenue
Others	0.33%	5.98%
Non-Domestic	0.05%	1.67%
Non-Commercial	1.36%	13.02%
Irrigation	0.55%	0.25%
Industrial	0.96%	9.85%
Commercial	0.59%	17.45%
Domestic	96.16%	51.78%

	SURKHET	SALYAN	RUKUMPASCHIM	DAILEKH	JUMLA	JAJARKOT	KALIKOT	HELDUNG	DOLPA	GAMGADHA
Consumer Number	74,392.00	28,483.00	22,259.00	21,511.00	8,308.00	9,611.00	6,149.00	2,625.00	1,969.00	3,487.00
Sales (Mwh)	66,951.00	10,845.37	6,415.38	6,376.58	3,061.02	2,764.01	1,585.96	1,000.93	753.55	645.33
Revenue (Rs in 0000')	64,074.20	8,359.90	6,408.79	6,144.18	3,243.39	2,745.80	1,675.64	1,083.34	812.03	727.21
Collection (Rs in 0000')	63,291.40	8,504.48	5,472.18	6,075.54	3,401.50	2,427.60	1,658.10	1,035.65	809.57	666.78

Sales

A total of 100,399 MWh of energy was sold in the F.Y. 2081/82. Sales contribution to NEA system from this Provincial Office is 0.89%.

Revenue

The gross revenue of NRs. 952.75 Million was earned in F/Y 2081/82.

Surkhet Distribution Center accounts for 67.25% and Salyan Distribution Center accounts for 8.77 % of the total revenue in this region.

Distribution Infrastructure

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	543	634
11 kV Distribution Lines (in km)	3,047	3,066
33/11 kV Primary Sub-stations	12	14
Total Substation Capacity	87	93
LV Distribution Lines (in km)	7,981	8,057
Total Number of Distribution Transformer	1,813	1,933

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	516	561
Annual Revenue per Consumer (Rs./ Consumer)	4,986	5,328
Consumer per Distribution Transformer	90	92

Consumer Care

Our staff from 10 Distribution Centers has imparted special efforts to serve our valued customers during the year. Regularity of power supply were enhanced by constructing additional two number of 33kV lines from Kailali and Achham districts. The low voltage problems were addressed by installing distribution transformers in potential load center locations. Nepal Electricity Authority has made arrangements to submit electricity bill easily through online systems. This system has given the service of paying the bill online and also update about the bill payment for the consumers and the obligation for consumers to come to counters for bill payment has ended, thus saving time of the consumer. Consumers can pay their bills via different service providers (eSewa and other commercial banks). For preventing accidents and injuries related to electricity, regular awareness campaigns as workshops and review meetings were implemented in various local levels and distribution centers.

Training of insulation resistance measurement on the occasion of safety day at Dailekh office

Program organization on the occasion of Safety Day at Dungeshwor-1 Chupra, Dailekh

NEA regular works for addition of new transformers, shifting of distribution transformer at load centers, addition of two wires and upgradation of substation have key roles in voltage improvement providing quality supply.

Loss Reduction Activities

Various measures are taken to decrease and limit the technical and non-technical losses under acceptable range in the distribution system of the province such as

- Constructing additional two number of 33kV lines from Kailali and Achham districts.
- Upgrading distribution lines with higher capacity to reduce line losses.
- Adding new feeders and restructuring feeders for optimal power flow and minimum technical losses
- Awareness campaigns as workshops and review meetings were implemented in various distribution centers.
- Strict measures for electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies.
- NEA management made various decisions including regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.
- Installing Automatic and Remote Meter Reading system under Advanced Metering Infrastructure in TOD meters for regular monitoring of the TOD consumers.

Comparative Analysis of DCs Losses of Two Consecutive Years

Karnali province is making gradual growth in electrification with targeted funding to electrify the province as per the aim of government policy "Electricity for All". Since, electricity has become basic backbone of development; people's anticipation for reliable grid electricity in this province is very high. Rugged geographical terrain has been the major challenge for rapid electrification in this province in spite of significant funding from GoN and AIIB. Many projects are underway to brighten every household of this province. For rapid electrification and reliable electricity supply, DCSD is collaborating with transmission directorate for parallel development of transmission and distribution infrastructures in this province. These infrastructure are also necessary to harness the huge generation potential of this province.

The major target in this province is to extend grid connectivity in every districts of the province. Currently substations around Surkhet are the major hub of power in grid connected areas of Surkhet, Salyan, Rukum West, Dailekh, Jajarkot, Kalikot, Jumla,

Mugu and Dolpa districts. Due to long feeder passing through dense forest, Kohalpur–Surkhet 33kV line is highly unreliable and frequent outages are common. There is problem in bush cutting due to strict rules inside Banke and Bardiya National Park. These issues need to be discussed with respective stakeholders for long term solution. Due to problem in major substation with lack of proper protection equipments, province facing frequent outages decreasing reliability of electricity. The Dolpa district still depend on isolated power generation which is highly unreliable. Due to limited power source, these DCs are not able to supply electricity to many prospective consumers. Due to lack of proper road transportation, the transportation of electrification line materials and poles is one of the main challenges in this province. This has also increased the cost of electrification in this province.

Future Programs and Plans	
Under Construction 33/11 kV Distribution Substations	3
Distribution Capacity (MVA)	9
Planned 11 kV Distribution Lines (km)	252
Planned LV Distribution Lines (km)	3320
Planned LV Distribution transformers (Nos.)	430

HT Line Extension work at Dailekh

Maintenance work on 33/11kV Budbude Substation, Surkhet

Karnali Provincial Office and Distribution Centre Chiefs

Shashi Bhushan Shah
Provincial Chief, Karnali Provincial Office

Harendra Ray Yadav
Kalikot DC

Dharmapati Yadav
Dolpa DC

Birman Raskoti
Rukum West DC

Ram Ashish Sah
Jumla DC

Shankar Singh Thakuri
Jajarkotr DC

Dinesh Paudel
Salyan DC

Naresh Dutta Rawal
Dailekh DC

Ashok Lohani
Surkhet DC

Sajan Aidi
Gamgad DC

Jitendra Sah
Heldung DC

Sudurpaschim Provincial Office, Attariya

INTRODUCTION

NEA, Sudurpaschim Provincial office, Attariya, is one of the 7 Provincial offices in Nepal, under Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution and consumer Services in 9 districts of Sudurpaschim province. As of now, there are 12 distribution centers (DCS) under this provincial office. The major activities undertaken by this provincial office includes construction operation, maintenance and Augmentation of the electricity distribution networks up to 33 kV voltage level, 33/11 kV sub-station along with consumer services activities such as new consumer connections, meter reading, billing and revenue collection etc.

HIGHLIGHTS OF THE YEAR

No. of DCS
12

Total Consumers
399,388

Annual Revenue
3.61 Billion

Total Collection
3.60 Billion

Annual Energy Sales
421.61 GWh

Distribution Loss
13.60%

Consumer Number

In Sudurpaschim Provincial office, majority of consumer is registered in the domestic category which sums above 91.81% approximately while the second largest consumer category is found to be irrigation which is accounts for 5.05% of the total consumers.

Sales

A total of 421.61 GWh of energy was sold in the F.Y. 2081/82. Sales contribution to NEA system from this Provincial office is 3.74 %

Revenue

The gross revenue of NRs. 3.61 billion and gross bill collection amount of NRs. 3.60 billion was recorded in F.Y. 2081/82. Majority of the revenue in this Provincial office was recorded from domestic category which is approximately 51.59% of the total revenue of this Provincial region.

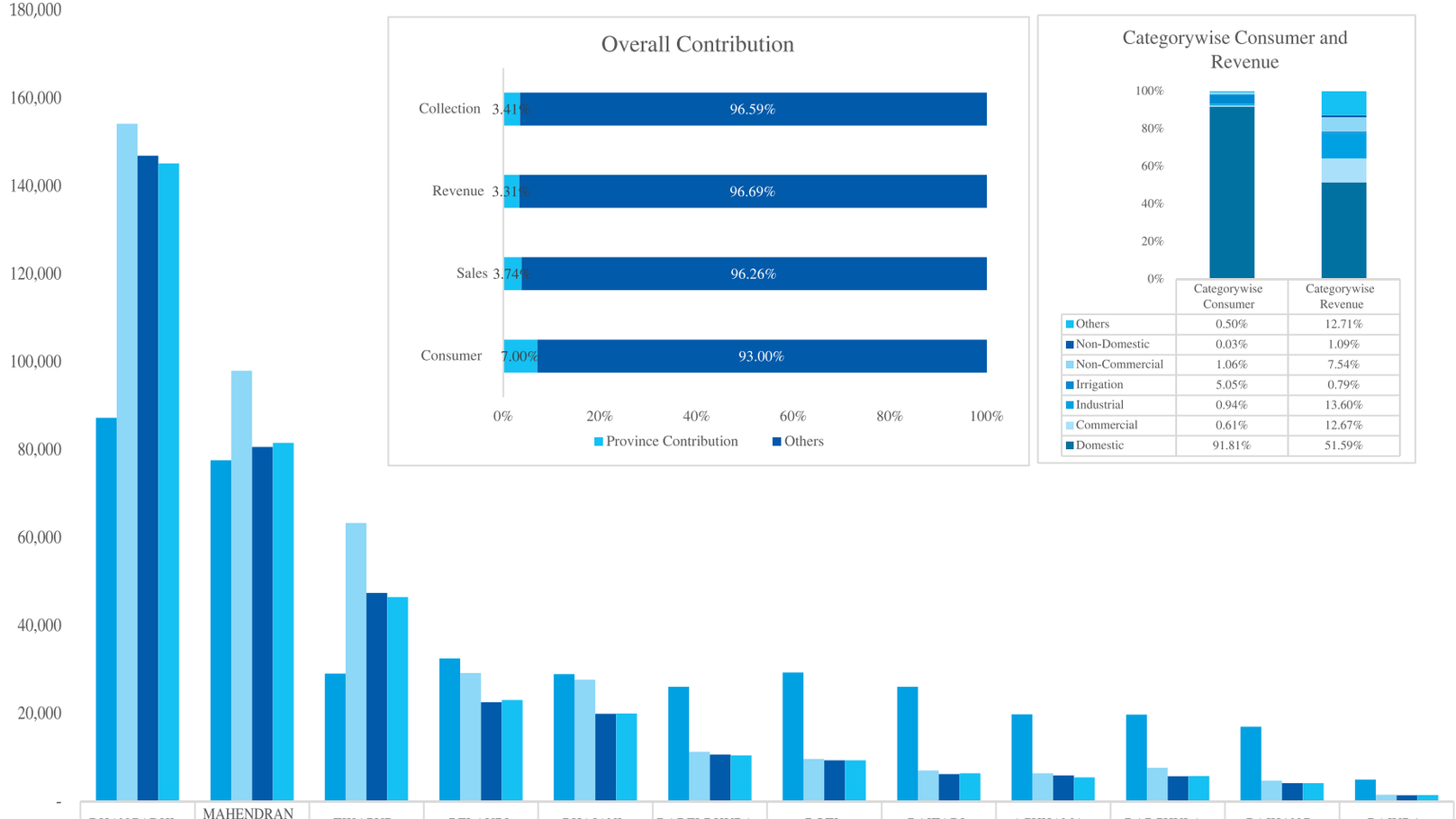
Distribution Infrastructure

Description	F.Y. 2080/81	F.Y. 2081/82
33 kV Distribution Lines (in km)	780	810
11 kV Distribution Lines (in km)	4,543	4,746
33/11 kV Primary Sub-stations	26	29
Total Substation Capacity	228	239
LV Distribution Lines (in km)	15,739	16,183
Total Number of Distribution Transformer	2,952	3,203

Consumer Service Indices

Consumer Services Indices	F.Y. 2080/81	F.Y. 2081/82
Annual Sales per Consumer (kWh/ Consumer)	1,012	1,055
Annual Revenue per Consumer (Rs./ Consumer)	8,706	9,057
Consumer per Distribution Transformer	126	124

DC wise Consumer, Sales, Revenue and Collection



	Categorywise Consumer	Categorywise Revenue
Others	0.50%	12.71%
Non-Domestic	0.03%	1.09%
Non-Commercial	1.06%	7.54%
Irrigation	5.05%	0.79%
Industrial	0.94%	13.60%
Commercial	0.61%	12.67%
Domestic	91.81%	51.59%

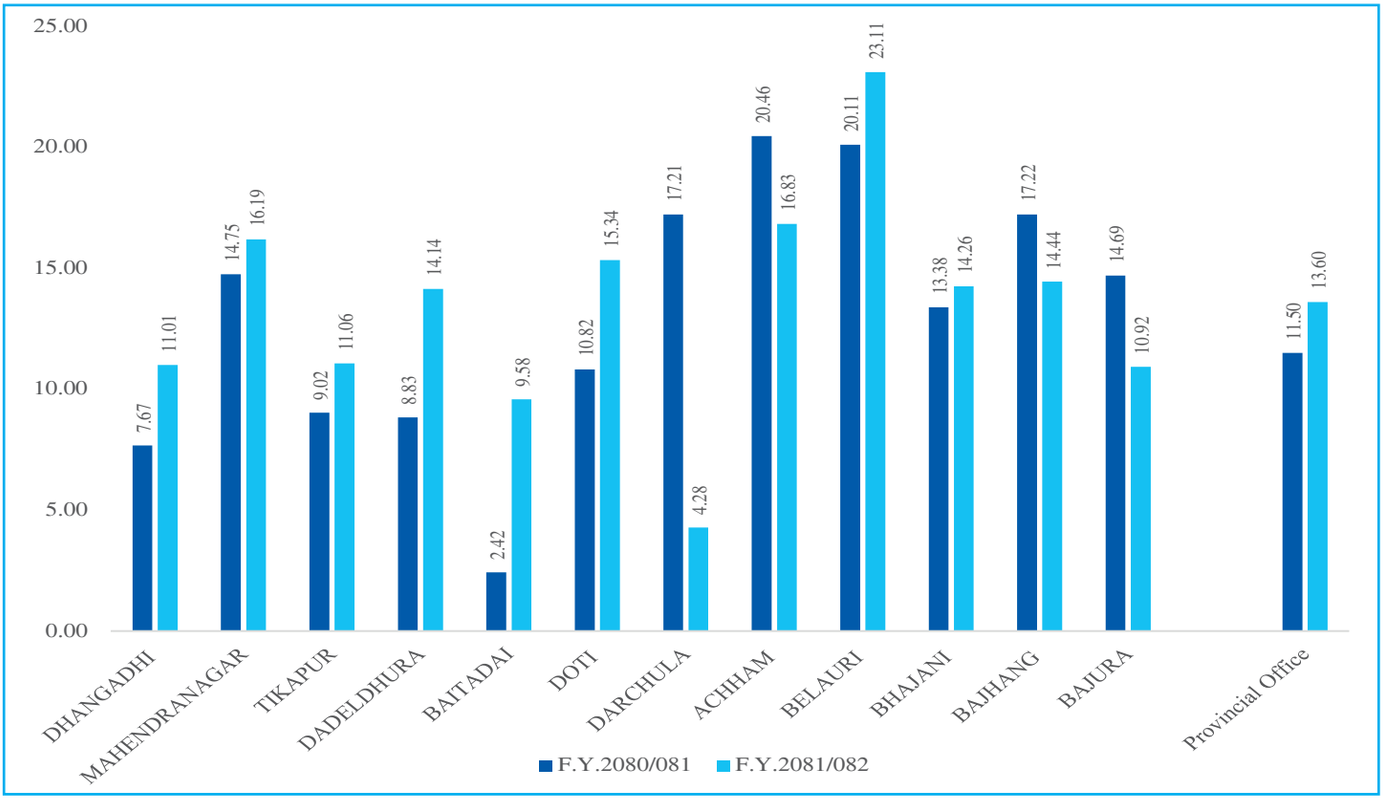
	DHANGADHI	MAHENDRANAGAR	TIKAPUR	BELAURI	BHAJANI	DADELDHURA	DOTI	BAITADI	ACHHAMA	DARCHULA	BAJHANG	BAJURA
Consumer Number	87,380.00	77,683.00	29,174.00	32,605.00	29,041.00	26,137.00	29,427.00	26,130.00	19,873.00	19,853.00	17,048.00	5,037.00
Sales (Mwh)	154,283.65	98,062.24	63,422.00	29,302.00	27,800.52	11,343.00	9,728.35	7,106.00	6,474.00	7,705.80	4,802.23	1,590.19
Revenue (Rs in 0000')	146,991.92	80,699.80	47,524.70	22,663.10	19,999.26	10,757.90	9,403.54	6,293.00	5,973.90	5,779.27	4,214.67	1,461.71
Collection (Rs in 0000')	145,260.07	81,656.80	46,587.80	23,159.60	20,058.12	10,523.70	9,404.56	6,493.70	5,573.60	5,851.54	4,257.51	1,552.10

Loss Reduction Activities

Various measures are taken to reduce the technical and non-technical losses of concern distribution center under the provincial office to the acceptable range.

- Up gradation of distribution line with adequate capacity to reduce line losses.
- Adding new feeder and restructuring feeders for optimal power flow and minimum technical losses
- Awareness campaigns as workshops and review meetings were implemented in various distribution centers.
- Strict measures for electricity theft control such as confiscation of electric appliance and taking legal action against culprits were also conducted in various distribution centers with help of local administration and security agencies.
- NEA management made various decisions including regular inspection of Time-of-Day (TOD) meters, download of data and analysis to curb any connection fault or manipulation.
- Installing Automatic and Remote Meter Reading system under Advanced Metering Infrastructure in TOD meters for regular monitoring of the TOD consumers.

Comparative Analysis of DCs Losses of Two Consecutive Years



Way Forward: Progress and Prospects

The demand of electrical energy in this province is rapidly growing at Attaria- Dhangadi corridor. The most of 33/11 kV Substations of Kalilali and Kanchanpur districts are upgraded to power transformers of capacity of 20/24 MVA, however 33 kV transmission lines at Lalpur– Jhalari, Lalpur Mahendranagar yet to be upgraded. Nevertheless, contract has been awarded for the up-gradation of line and will be completed in F.Y 2082/083. The up-gradation of 33 kV lines, the rehabilitation of 33/11 kV substations at Budar, Doti Pipalla bazar, Joshipur , Dodhara Chandani and other various places of this province are completed in this Fiscal year 2081/082 and the reinforcement & augmentation of distribution networks in Kailali and Kanchanpur districts is to be conducted immediately to reduce loss and to provide reliable power supply.

Future Programs and Plans	
Under Construction 33/11kV Distribution Substations	9
Distribution Capacity (MVA)	42
Planned 33/11kV Distribution Substations	4
Distribution Capacity(MVA)	10.5
Planned 33kV Distribution Lines (km)	36
Planned 11kV Distribution Lines (km)	250
Planned LV Distribution Lines (km)	900
Planned LV Distribution transformers	250

Sudurpaschim Provincial Office and Distribution Centre Chiefs

Jang Bahadur Chand
Provincial Chief, Sudurpaschim Provincial Office

Mithilesh Kumar Gohiwar
Dhangadhi DC

Chutan Kumar Sriwastab
Mahendranagar Dc

Tanka Raj Giri
Belauri DC

Kapil Joshi
Tikapur DC

Rajesh Kumar Jha
Bajura DC

Hikmat Bahadur BC
Achham DC

Ananda Sapkota
Darchula DC

Ramesh Awasthi
Dadeldhura DC

Sujan Khadka
Bajhang DC

Shiva Shankar Soni
Doti DC

Ganesh Pandey
Bhajani DC

Janardan Paudel
Baitadi DC

Projects Under Distribution and Consumer Services Directorate

INTRODUCTION

Nepal's electricity demand and generation, both, has been growing significantly, with large investments in new generation capacities and increasing demand within the country. However, upgrading and expansion of transmission and distribution networks have not kept pace with the supply growth. The Government of Nepal has implemented the project of 'Distribution System Upgrade and Expasion Project' via Asian Infrastructure Investment Bank (AIIB) and European Investment Bank (EIB) to increase electricity access to and improve the quality and efficiency of electricity supply in selected areas of western and far western area of Nepal as a part of the program to achieve affordable electricity for all. The Government of Nepal (GoN) received a credit from the World Bank (WB) towards the cost of Grid Solar and Energy Efficiency Project (GSEEP) for grid connected solar PV and Distribution System Planning and Loss Reduction. The projects are described briefly below.

Grid Solar and Energy Efficiency Project (GSEEP)

The Government of Nepal (GoN) has received a credit from the World Bank (WB) towards the cost of Grid Solar Energy and Energy Efficiency Project (GSEEP) under IDA Credit No. 5566-NP (Project ID P146344) for an amount of USD 130 million under a counter financing of USD 8 million by the GoN. The financial agreement between GoN and the WB was concluded on February 20, 2015. The GSEEP Project comprises of following two components.

Component 1:

Grid–connected Solar PV Farms Development with an estimated cost of 46 million USD which deals with the Design, Planning, Engineering, Procurement (Manufacturing/Supply) Construction/Erection, Testing, Commissioning and Five Years of Operation & Maintenance of 25 MWp Utility Scale Grid Tied Solar Farms. Seven Plots of Lands owned by NEA at Devighat Hydropower Station Premises has been used for Solar Power Generation. The construction and installation of the project has been completed and 25MWp has been connected to National Grid. About 31.5 GWh energy has been generated by solar plant in FY 79/80. The contractor shall handle the Operation and Maintenance for 5 years .

Component 2:

Distribution System Planning and Loss Reduction with an estimated cost of 80 million USD dealing with the Rural Electrification in seven (7) packages along with Distribution Business Management and Implementation of Loss Reduction and Distribution System Rehabilitation. Under this component, following Projects has been completed in FY 80/81 :

a. **Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Dolakha, Sindhuli & Ramechap):**
   This project has completed the construction and installation of 347 km of HT Line and 928 km of LT line and 216 Nos. of new distribution transformers in Dolakha, Ramechhap and Sindhuli districts of Nepal. Approximately 19220 Nos. of Households has been benefitted from this project.

b. **Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Gulmi, Arghakachi & Kapilbastu):**
   This project has completed the construction and installation of 311.60 km of HT Line and 472 km of LT line and 160 Nos of Distribution transformers in

Gulmi, Argakhachi and Kapilbastu districts of Nepal. Approximately 21955 Nos. of Households has been benefitted from this project.

c. **Preparation of Distribution Loss Reduction Master Plan Along With Design, Supervision And Monitoring of Loss Reduction Activities:**
A complete study of the loss situation was conducted and Loss Reduction Master Plan has been prepared in FY 79/80. The Master plan is being implemented at various locations resulting in reduction of technical and non technical losses along with system up gradation and rehabilitation in various Parts of Nepal.

d. **Design, Supply and Installation/Erection, Testing and Commissioning of of 11/0.4 kV Distribution System in Kavre, Dhading and Nuwakot districts:**
This project has completed the construction and installation of 230.79 km of HT Line and 473 km of LT line and 168 Nos. of Distribution transformers in Kavre, Dhading and Nuwakot districts of Nepal. Approximately 8691 Nos. of Households has been benefitted from this project.

e. **Design, Supply and Installation/Erection, Testing and Commissioning of Distribution System in Melamchi, Dolakha, Ramechhap, Rasuwa, Palung, Bharatpur and Sindhuli districts:**
This project has completed the construction and installation of 258.235 km of HT Line and 426.161 km of LT line and 361 Nos. of Distribution Transformers in Chitwan, Makwanpur, Sindhupalchowk, Rasuwa and Sindhuli districts of Nepal. Approximately 17000 Nos. of Households has been benefitted from this project.

Following projects are in progress under this component:

f. **Design, planning, engineering, procurement, installation, testing and commissioning of 8 New 33/11kV substations and 33kV lines in the development of the NEA grid. (Kapilbastu, Arghakhachi, Sindhuli, Ramechap & Gulmi):**
This project has completed the construction and installation of Seven new substations at Sindhuli, Ramechap, Gulmi, Argakhachi and Kapilbastu districts of Nepal. Load balance, Enhancement of Voltage Level along with reduction of technical losses has been the main outcomes of this project.

g. **Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Taplejung, Panchthar & Illam):**
This project has completed the construction and installation of 157 km of HT Line and 405 km of LT line and 97 Nos. of Distribution Transformers in Illam, Taplejung and Panchthar districts of Nepal. Approximately 9795 Nos. of Households has been benefitted from this project. Remaining works are ongoing.

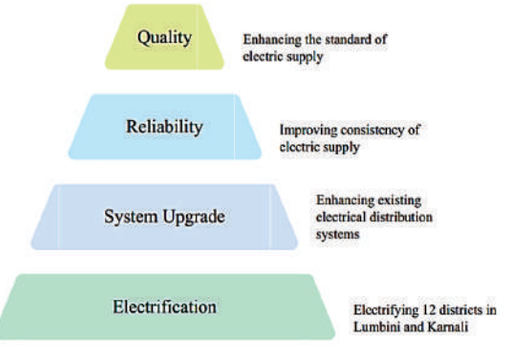
33 kV H pole-structure for crossing of suspension bridge at Palung

h. **Design, Supply and Installation of Substations and 33kV Lines in Bharatpur, Dhading, Hetauda, Kavre, Lagankhel, Nuwakot, Palung, Ramechhap, Dolakha and Sindhupalchok districts.**

This project has scope of construction and installation of thirteen new substations at Sindhuli, Ramechap, Kavre, Sindhupalchowk, Makwanpur, Dolakha, Nuwakot, Lagankhel Chitwan and Dhading districts of Nepal. Load balance, Enhancement of Voltage Level along with reduction of technical losses has been the main outcomes of this project. Construction and Commissioning of Eight Substations namely Manahari Makawapur, Sangutar Ramechap, Namdu Dolakha, Mude Sindhupalchowk, Unichaur Lalitpur, Dudhauli Sindhuli and Devnagar Chitwan and Thaha, Palung , Makwanpur has been completed in FY 81/82. Construction of 33/11kV Substation along with adjacent 33kV Line construction is ongoing in other sites. Approximately 52966 Nos. of Households has been benefitted from this project.

Nepal Distribution System Upgrade and Expansion Project (AIIB)

Nepal Distribution System Upgrade and Expansion Project (DSUEP) financed with loan by Asian Infrastructure Investment Bank (AIIB) aims to expand the distribution line network of country to 100 percent. The project involves upgrading existing systems, constructing new substations and expanding the distribution line by electrifying 4 districts of Lumbini Province and 8 districts of Karnali Province. DSUEP (AIIB) will enhance the distribution system to improve reliability and quality of electric supply in Karnali and Lumbini Provinces.



Scope of Project

Package W1

Includes 3 new substations in Dang District. Each substations having a capacity of 6/8 MVA. Includes construction of around 42 km of 33 kV line, 220 km of 11 kV and 300km of LT line with installation of around 141 nos. distribution Transformer.

Package W2

Includes one substation in Banke District having capacity of 2*6/8 MVA and one in Rolpa district having capacity of 6/8 MVA . Includes construction of around 25 km 33 kV line, 148 km of of 11 kV and 320km of LT line with installation of around 51 nos. distribution Transformer.

Package W3

Includes one substation each in Jumla and Kalikot district. Each substation having a capacity of 1 MVA. Includes construction of around 5.81 km of 33 kV line, 252 km of 11 kV and 570 km of LT line with installation of around 104 nos. distribution Transformer

Package W4

Includes one substation each in Kalikot and Rukum West, and two in Jajarkot district. All substations having a capacity of 1 MVA. Includes construction of around 112 km of 33 kV line, 375 km of 11 kV and 740 km of LT line with installation of around 296 nos. distribution Transformer

Package W5

Includes one substation each in Salyan district having capacity of 1 MVA and Bardiya district having capacity of 2*6/8 MVA , and two in Surkhet. district having capacity of 1 MVA each. Includes construction of around 90 km of 33 kV line, 453 km of 11 kV and 737 km of LT line with installation of around 325 nos. distribution Transformer.

Package W6

Includes two substations each in Mugu and Humla district. These substations have a capacity of 2*500 kVA. Includes construction of around 145 km of 33 kV line, 370 km of 11 kV and 725 km of LT line with installation of around 139 nos. distribution Transformer

Progress of Project:

Procurement	Construction	
	Substation	Line
i. For all packages the GTP and Drawing of most S/S equipment is approved and are under manufacturing phase. ii. For Package W1-W5, most line equipment like STP, ACSR, LT AB Cable, MVCC and Hardware & Fittings has been delivered to store/site and is ready for use. iii. For Package W6, ACSR and AB Cable are under dispatch process to store while STP, Insulators, Hardware & Fittings, Channels etc have been delivered to store/site.	i. Construction of Boundary wall completed, and construction of structural buildings and switchyard foundation is on final stage of completion in 9 out of 19 substations. ii. Construction work of Boundary wall, Structural buildings going on remaining 10 substations.	The line route survey of 33 kV line, 11 kV line and LT line has been completed, and erection of pole has been started on all 12 districts.

Erection of Pole at Mugu District

Ongoing Construction work at Simikot (Humla) S/S

Nepal Distribution System Upgrade and Expansion Project (EIB funded)

Nepal's electricity demand and generation, both, has been rowing significantly, with large investments in new generation capacities and increasing demand within the country. However, upgrading and expansion of transmission & distribution networks have not kept pace with the supply growth. While the provinces have varying degrees of electrification with some having better coverage than others, Lumbini Province and Sudurpaschim Province have the least coverage. To redress this situation, the Government of Nepal has implemented this project through Nepal Electricity Authority (NEA) to extend supply lines to the western and far western areas of Nepal as a part of the program to achieve affordable and reliable electricity for all. NEA through the Government has received loan-financing from European Investment Bank (EIB) towards cost of financing the proposed project.

Table: Province-wise districts distribution of DSUEP (EIB) Project

Province	Name of Districts	No. of Sustation
Lumbini	Parasi, Rupandehi, Rolpa, Dang, Rukum East	8 nos. 33/11kV Substation
Sudurpaschim	Bajhang, Bajura, Baitadi	5 nos. 33/11 kV Substation & 1 no. 132/33 kV Substation

This project has aimed to achieve cent percent of electrification in the above districts. It is being implemented by sub-dividing the construction works into following six packages:

Package-EIB-W1

- Construction of 33/11kV substations in Hakui of Parasi district (8 MVA), Mangalapur of Rupandehi district (24 MVA), Thabang of Rolpa district (3MVA), and Kalanga if Bajhang district (3MVA).
- Construction of 52 ckt. km of 11 kV lines, 61 km of LT lines and installation of 40 nos. of distribution transformers in Parasi district.
- Construction of 24 ckt. km of 11 kV lines, 30 km of LT lines and installation of 39 nos. of distribution transformers in Rupandehi district.
- Construction of 141 ckt. km of 11 kV lines, 208 ckt. km of LT lines and installation of 42 nos.of distribution transformers in Rolpa district.
- Construction of 119 ckt. km of 11 kV lines, 251 km of LT lines and installation of 33 nos. distribution transformers in Bajhang district.

Package-EIB-W2

- Construction of 33/11 kV substations in Kankri of Rukum East district (3 MVA), Murkuti of Dang district (8 MVA), and Marchawar of Rupandehi district (8 MVA).
- Construction of 107 ckt. km of 11 kV lines, 226 km of LT lines and installation of 22 nos. of distribution transformers in Rukum East district.
- Construction of 104 ckt. km of 11 kV lines, 156 ckt. km of LT lines and installation of 54 nos. of distribution transformers in Rolpa district.
- Construction of 65 ckt. km of 11 kV lines, 100 km of LT lines and installation of 68 nos. of distribution transformers in Rupandehi district.

Package-EIB-W3

- Construction of 33/11 kV substations in Musya of Baitadi district (3 MVA), Budhiganga of Bajura district (3 MVA) and Kolti of Bajura district (3 MVA).
- Construction of 108 ckt. km of 11 kV lines, 151 km of LT lines and installation of 65 nos. of distribution transformers in Baitadi district.
- Construction of 265 ckt. km of 11 kV lines, 370 ckt. km of LT lines and installation of 116 nos. of distribution transformers in Bajura district.

Package-EIB-W4

- Construction of 33/11 kV substations in Bhalubang of Dang district (8 MVA), Rukumkot of Rukum East district (3 MVA) and Sillegadha of Baitadi district (3 MVA).
- Construction of 46 ckt. km of 11 kV lines, 63 km of LT lines and installation of 34 nos. of distribution transformers in Dang district.
- Construction of 118 ckt. km of 11 kV lines, 250 ckt. km of LT lines and installation of 57 nos. of distribution transformers in Rukum East district.
- Construction of 178 ckt. km of 11 kV lines, 376 km of LT lines and installation of 60 nos. of distribution transformers in Baitadi district.

Package-EIB-W5

- Construction of 192 ckt. km of 11 kV lines, 462 km of LT lines and installation of 70 nos. of distribution transformers in Bajhang district.
- Construction of 36 ckt. km of 11 kV lines, 210 ckt. km of LT lines and installation of 34 nos. of distribution transformers in Baitadi district.
- Construction of 96 ckt. km of 11 kV lines, 210 km of LT lines and installation of 34 nos. of distribution transformers in Rukum East district.
- Construction of 36 ckt. km of 11 kV lines, 210 km of LT lines and installation of 34 nos. of distribution transformers in Rukum East district.

Package-EIB-W6

- Construction of 132/33 kV (15 MVA) substation in Rupail of Bajhang district.
- Expansion of existing Kalanga Gad Hydroelectric switchyard with three outgoing 33kV bays.

Progress till end of F.Y. 2081/82:

S.N.	Tender Package	Districts (Place)	Status
1.	EIB-W1	Parasi (Hakui), Rupandehi (Mangalapur), Rolpa (Thabang), Bajhang (Kalanga)	Substation: Landscaping works completed, Building works 70% completed Electrical equipment and lines: Electrical lines work 35%, Switchyard works anticipated to conclude in 4 months.
2.	EIB-W2	Rupandehi (Marchawar), Dang (Murkutti), Rukum East (Kankri)	Substation: Landscaping works completed, Building works 50% completed Electrical equipment and lines: Electrical lines work 32%, Switchyard works anticipated to conclude in 4 months.
3.	EIB-W3	Baitadi (Musya), Bajura (Budhiganaga & Kolti)	Substation: Landscaping works completed, Building works 60% completed Electrical equipment and lines: Electrical lines work 42%, Switchyard works anticipated to conclude in 4 months .
4.	EIB-W4	Dang (Bhalubang), Rukum East (Rukumkot), Baitadi (Sillegadha)	Substation: Landscaping works completed, Building works 40% completed Electrical equipment and lines: Electrical lines work 25%, Switchyard works anticipated to conclude in 4 months.
5.	EIB-W5	Bajhnag, Baitadi,Rolpa, Rukum East	Tender evaluation is in progress.
6.	EIB-W6	Bajhang (Rupail)	Substation: Landscaping works completed, Building works 15% completed Design works are in progress. Switchyard works anticipated to conclude in 4 months.

Key Bottlenecks and Mitigation Measures:

While the project has achieved significant progress, several challenges have been identified and are being actively managed to ensure timely project completion:

1. **Approval of Master list:**

   The process of getting the project's master list approved has been a significant bottleneck. This document is critical for procurement and logistics of key electrical materials and equipments. Delay in this approval process have a cascading effect on construction timelines.

   To address this, the project team is taking a proactive approach by initiating construction works other than the work associated with the key materials and equipments to substantiate the delays and meet the project timeline. Similarly, continuous follow-up with all parties is being maintained to address any queries promptly and prevent further delays.

2. **Approval of Pre-Construction Survey (PCS) Quantities:**

   The approval process for the pre-construction survey quantities in the Bill of Quantity (BOQ) has emerged as a minor bottleneck. While some PCS quantities have been approved, several items are still pending final consent. This delay impacts on the contractor's ability to proceed with work items and can lead to payment cycle delays.

   The project team is taking approach by prioritizing the review of pending PCS quantities for critical-path items to avoid further delays in construction. A dedicated review process with the consultant and project team is being initiated to expedite approval.

Electricity Supply Reliability Improvement Project (ESRIP)

The World Bank is funding the Electricity Supply Reliability Improvement Project (ESRIP) to enhance the

reliability of electricity supply in various regions. The major objectives of this project is to improve the reliability and quality of electricity supply as well as reducing outages and enhance service delivery to consumers. The project primarily focuses on regions facing significant electricity supply challenges of voltage fluctuations, long feeder lengths as well as reliability issues. The scope of the project includes addition of new distribution substations, upgrading distribution infrastructure, and implementing new technologies for feeder automation and smart metering, leading to improved reliability and operational efficiency.

Projects Under Planning Technical Services Department

Nepal Electricity Authority has been implementing electrification programs to meet the GoN's target to completely electrify all districts of Nepal in the next 2 years. The electrification programs include construction of 33/11 kV substations, 33 kV lines, 11 kV lines and 0.4/0.23 kV distribution networks. There are many projects under Planning Technical Services Department funded by Government of Nepal, NEA and kFW. The projects are described briefly below:

Matatirtha Malta 33 kV Transmission Line Project

This project aims to supply power to Laxmi Cement Industry Pvt. Ltd. in Malta, Lalitpur, facilitate the evacuation of power generated by Khani Khola Hydropower Company Ltd. (6.5 MW), and supply electricity to existing NEA consumers in its vicinity. The project will help improve the quality of supply and reduce technical losses in the Lalitpur area as well.

The scope of the project includes the construction of a 33/11 kV, 6/8 MVA substation, along with a double circuit 35 km 33 kV line. The civil and electrical works of the Malta substation have been completed, and the substation is currently in operation, transmitting power generated by Khani Khola Hydropower and Tungun-Thosne Hydropower to the grid through the Mandu Hydropower Substation (33/66 kV line). The Malta substation has already been handed over to the Lagankhel Distribution Center for operation and maintenance.

The construction of the 33 kV line from Matatirtha to Malta is in progress. The line construction work had been obstructed at different locations by the local community. Most of the local issues have been resolved, including those related to electricity supply, transformers, poles, etc. The project has obtained approval for tree cutting and land acquisition from the Cabinet of the Government of Nepal, and the process of depositing money into the Forest Development Fund as reimbursement in installments is underway.The remaining work of conductor stringing (as poling work has already been completed) is expected to be completed within FY 2082/83.

Matatirtha Markhu 33 kV Transmission Line Project

This project aims to meet the growing demand for electricity in the Kulekhani area of Makawanpur district and its vicinity. The project will help improve the quality of supply and reduce technical losses in the area.

The main scope of the project is the construction of a 33/11 kV, 6/8 MVA substation at Markhu, along with a single circuit 16 km transmission line from Matatirtha to Markhu. The Markhu substation has been completed and is currently in operation; it has been charged with 11 kV back feed and is being used as a switching substation. The substation has been handed over to the Palung Distribution Center for operation and maintenance.

Additionally, a 10 km transmission line construction work from Chakhel tapping point to Markhu substation has been completed. The contractor has successfully completed all the planned work (except forest area because of provisons for IEE/EIA are not included in the project scope) under this package by the fiscal year 2081/82.

Khokana - Nijgadh 33/11kV Substation Project

The project is funded by the Government of Nepal and primarily aims to meet the electricity demand of the Kathmandu-Terai/Madhesh Fast Track Road Project and to support the operation and safety of the expressway. It also aims to meet the growing electricity demand in Thingan, Len Danda, Dhendhre, and Simpani areas of Makawanpur District. The scope of this project includes the construction of 33 kV and 11 kV sub-transmission lines and 33/11 kV, 2×20/24 MVA substations at Shaktidanda and Rajdamar of Makawanpur. The field survey work for the 33 kV and 11 kV sub-transmission lines has been completed, and the final

cost estimate has been prepared.

The land required for the two substations (approximately 16 ropani) has been provided in the lease for 40 years by the Nepal Army (Fast Track Project). A Memorandum of Understanding (MoU) between the Kathmandu-Terai/ Madhesh Fast Track Road Project and NEA has been completed. The Detailed Project Report (DPR) has been prepared and is currently under the process of approval. The tender process will be conducted in the fiscal year 2082/83.

Promotion of Solar Energy in Rural and Semi-Urban Regions II

The Government of Germany has committed up to EUR 8 million to support the development of ground-mounted, grid-connected solar PV installations at four locations: Middle Marsyangdi Hydroelectric Project (MMHEP), Surkhet, Gandak, and Kulekhani (Markhu). The combined installed capacity of these solar projects is expected to reach approximately 16 MW (DC). Each site is located adjacent to existing hydropower facilities, promoting a model of solar-hydro synergy by leveraging the existing transmission infrastructure. This initiative also allows NEA to make productive use of land previously acquired during the construction of these hydropower projects, some of which date back decades.

While the tender process for the Kulekhani site is yet to be started, the EPC contractor for the remaining three sites including MMHEP has already been engaged. The total project cost, including the value of the land, is estimated to be roughly twice the amount of the German grant. NEA has committed to cover the portion exceeding the grant contribution.

Under the terms and conditions outlined in the contract subject to close supervision by an international consulting firm the EPC contractor is responsible for the complete design, supply, installation, and quality assurance of all project components, including the related transmission lines. Furthermore, the contractor will handle the comprehensive operation and maintenance of the solar plants for a period of five (5) years following operational acceptance, in addition to a two (2)-year defect liability period.

On July 18, 2025 the groundbreaking event has been done by the presence of Dr. Benjamin Seidel, Head of Development Cooperation, German Embassy Kathmandu; Mr. Michael Sumser, Director of KfW Office for Bangladesh and Nepal; and Mr. Niraj Subedi, Head of KfW Country Office Nepal, along with Mr. Hitendra Dev Shakya, Managing Director of NEA and the NEA management team.

33/11 kV Substation Rehabilitation Project

With the aim of strengthening the distribution system and improving the reliability of distribution network, this project has been working for rehabilitation of existing substation as well as construction of new substations across the nation with the support of Nepal government and funds of Nepal Electricity Authority since F/Y 2017/18.

This project has successfully accomplished rehabilitation of 82 distribution substations from all over Nepal by replacement or addition of new power transformers of 33/11 kV, 6/8 MVA, 10/13.3/16.6 MVA or 20/24 MVA capacity along with other necessary substation equipment. Among them, 15 substations have been upgraded under Substation Automation System (SAS) and commissioned since March 3, 2025 so as to operate these substations from local control center at individual substation as well as from remote control center located at the respective distribution office.

Gulariya Substation with SAS and VMS facilities

The construction and installation works are underway in various substations. The scope of works for the substations under different provinces are listed below:

Scope of Works	Province Name	Substation (S/S)
New 20/24 MVA Transformer and Rehabilitation Works	Koshi	Biratchowk S/S (Belbari DC), Damak S/S (Damak DC)
	Lumbini	Nepalgunj New S/S (Nepalgunj DC), Saljhandi S/S (Butwal DC)
New 10/13.3/16.6 MVA Transformer and Rehabilitation Works	Madhesh	Maulapur S/S (Maulapur DC), Bodebarsain S/S (Bodebarsain DC), Barhathawa S/S (Barhathawa DC)
	Gandaki	Aanbukhaireni S/S (Tanahu DC)
	Karnali	Budbude S/S(Surkhet DC)
	Sudurpaschim	Tikapur S/S (Tikapur DC)
New 6/8 MVA Transformer and Rehabilitation Works	Koshi	Jirikhimti S/S(Teharathum DC), Tute S/S(Dhankuta DC), Bhojpur S/S (Bhojpur DC)
	Bagmati	Makaibari S/S (Dolakha DC), Jiri S/S (Dolakha DC), Salyantar S/S (Dhading DC), Madi S/S (Chanauli DC), Lamosanghu S/S (Sindhupalchowk DC)
	Gandaki	Siranchowk S/S (Gorkha DC), Baglung S/S(Baglung DC), Hemja S/S(Pokhara DC)
	Karnali	Dailekh S/S(Dailekh DC), Rakam S/S(Surkhet DC)
	Sudurpaschim	Joshipur S/S (Bhajani DC), Achham S/S (Achham DC), Chaumala S/S (Dhangadhi DC)
Rehabilitation Works (Upgradation/ Replacement of 33kV VCB, CRP, Instrument Transformers (CT / PT), Disconnecting Switches, Lightning Arrestor, Bus Bar and 12kV VCB, Power Cables as well as Battery, Battery Charger and other substation auxiliaries as per requirement)	Koshi	Okhaldhunga S/S (Okhaldunga DC), Dhankuta S/S (Dhankuta DC), Bhedetar S/S (Dhankuta DC), Bolochowk S/S (Damak DC), Fikkal S/S (Illam DC), Ghailadubba S/S (Anarmani DC), Illam S/S (Illam DC), Urlabari S/S (Urlabari DC)
	Madhesh	Haripur S/S (Lalbandi DC), Dhanusadham S/S (Dhanushadham DC), Nijgadh S/S (Simara DC), Siraha S/S (Siraha DC), Rupani S/S (Rajbiraj DC), Balardaha S/S (Kanchanpur DC), Aurahi S/S (Gaushala DC), Jaleshwor S/S (Jaleshwor DC), Kalaiya S/S (Kalaiya DC), Mirchaiya S/S (Mirchaiya DC)
	Bagmati	Dhading Besi S/S (Dhading DC), Jahare S/S (Dhading DC), Manthali S/S (Ramechhap DC), Naubise S/S (Dhading DC), Singati S/S (Dolakha DC)
	Gandaki	Modi S/S (Parbat DC), Milanchowk S/S (Myagdi DC), Gorkha S/S (Gorkha DC), Kushma S/S (Parbat DC), Badhkhola S/S (Syangja DC), Kawaswoti S/S (Kawaswoti DC), Palungtar S/S (Gorkha DC), Udipur S/S (Lamjung DC), Thakanbesi S/S (Lamjung DC), Mukundpur S/S (Kawaswoti DC)
	Lumbini	Mainapokhar S/S (Gulariya DC), Bhairahawa S/S (Bhairahawa DC), Tulsipur S/S (Tulsipur DC), Ridi S/S (Gulmi DC), Birbas S/S (Gulmi DC)
	Sudurpaschim	Doti S/S(Dadeldhura DC), Budar S/S (Dadeldhura DC), Gaddachauki S/S (Mahendranagar DC), Baitadi S/S (Baitadi DC)

The substations that have been strengthened and upgraded with Substation Automation System (SAS) are listed below:

Scope of Works	Province	Substation (S/S)
New 20/24 MVA Transformer and Rehabilitation Works (SAS)	Koshi	Inaruwa S/S (Inaruwa DC), Rani S/S (Biratnagar DC), Bhadrapur S/S (Bhadrapur DC), Tanki S/S(Biratnagar DC), Khanar S/S (Itahari DC)
	Madhesh	Mujeliya S/S (Janakpur DC), Malangwa S/S (Malangwa DC)
	Bagmati	Parsa S/S (Tandi DC)
	Lumbini	Parasi S/S (Parasi DC), Amuwa S/S (Amuwa DC)
New 10/13.3/16.6 MVA Transformer and Rehabilitation Works (SAS)	Gandaki	Dumre S/S (Tanahu DC)
	Lumbini	Taulihawa S/S (Taulihawa DC), Nepalgunj (Old) S/S (Nepalgunj DC)
Rehabilitation Works (SAS) (Upgradation/ Replacement of 33kV and 12kV substation components with SAS compatible equipment and panels for remote and local operation)	Bagmati	Chanauli S/S(Chanauli DC)
	Lumbini	Gulariya S/S(Gulariya DC)

During the reported year, this project has enhanced substation capacity of 297.8 MVA by upgradation/addition of 33/11 kV Power Transformers with improvement of substation protection system for incoming and outgoing line bays, incoming and outgoing feeders as well as readiness of substation for (n-1) criterion. After successful completion of rehabilitation and upgradation of all substations under the scope of this project, the total capacity of substations has been augmented by 613.4 MVA across the country.

Rural Electrification Projects

Although the national grid has reached to almost all districts of Nepal, the districts with relatively low electrification like Ilam, Panchthar, Taplejung, Okhaldhunga, Khotang, Solukhumbu, Bhojpur, Sankhuwasabha, Udayapur, Kavre, Makwanpur, Sindhuli, Nawalpur, Darchula and Dolpa districts are to be completely electrified within 2 years as per the plan and policy of the Government of Nepal.

Taplejung-Panchthar-Ilam-Jhapa Rural Electrification & Substation Construction Project

The project was formed in FY 2078/79 for the electrification & substation construction in Ilam, Panchthar & Taplejung District. The project has signed contract with M/s. Bhagawati-Renu J.V. for the construction of 102 Ckt-Km. of 11 kV Line, 278 Ckt-Km of LT line & 133 Nos. of Distribution Transformers in Ilam District & 107 Ckt-Km. of 11 kV Line, 300 Ckt-Km of LT line & 89 Nos. of Distribution Transformers in Panchthar District. The project has also signed contract with M/s. Waiba Infratech for the construction of 213 Ckt-Km. of 11 kV Line, 454 Ckt-Km of LT line & 138 Nos. of Distribution Transformers in Taplejung Distric. Entire electrification works has almost been completed and is in the final handover phase. The Project has already acquired the land for the construction of 33/11 Substation in Mai Municipality of Ilam District, Phalelung Rural Municipality of Panchthar District and Meringden & Phaktanglung Rural Municipality of Taplejung District. As NEA Management had decided the construction of above 33/11 kV Substations will be completed from Electricity Supply Reliability Improvement Project.

Bhojpur-Sankhuwasabha 11/0.4kV Rural Electrification Project

The Bhojpur-Sankhuwasabha 11/0.4kV Rural Electrification Project was initiated in the fiscal year 2078/79 with the objective of achieving 100%

electrification in the Bhojpur and Sankhuwasabha districts. The total estimated cost of the project is approximately NRs. 1.80 billion.

In Bhojpur district, the project scope includes the construction of 110 km of 11 kV distribution lines, 260 km of 0.4/0.23 kV low-voltage lines, and the installation of 90 distribution transformers. The works in this district have been executed by M/s BP Construction Pvt. Ltd., Chitwan. The construction activities in Bhojpur have been completed, and the site verification and final handover process is currently underway.

In Sankhuwasabha district, the scope comprises 225 km of 11 kV lines, 347 km of 0.4/0.23 kV lines, and the installation of 80 distribution transformers. The implementation in this district is being carried out by Waiba Infratech Pvt. Ltd., Kathmandu. As of now, approximately 95% of the installation work has been completed, with full completion targeted by December 2025.

The project has achieved an overall physical progress of 99% and a financial progress of 85%. Upon completion, upon full completion, the project will provide access to reliable electricity to approximately 9,000 households across both districts.

Trasportation of distribution transformer by locals in Sankhuwasabha District

Trasportation of distribution transformer by helicopter in Sankhuwasabha District

Solukhumbu-Okhaldhunga 33 kV Rural Electrification and Substation Construction Project

The Solukhumbu-Okhaldhunga 33 kV Rural Electrification and Substation Construction Project was initiated in the fiscal year 2078/79 with the objective of achieving 100% electrification in the Solukhumbu and Okhaldhunga districts. The total estimated cost of the project is approximately NRs. 3.40 billion.

In Solukhumbu district, the project scope encompasses the construction of two 33/11 kV substations, 294 km of 11 kV distribution lines, 472 km of 0.4/0.23 kV low-voltage lines, and the installation of 125 distribution transformers. Electrification activities in the district are nearly complete, with site verification and the final handover process currently in progress. Additionally, the land acquisition process for the substations has been initiated.

In Okhaldhunga district, the project scope covers the construction of two 33/11 kV substations, 188 km of 11 kV distribution lines, 461 km of 0.4/0.23 kV low-

voltage lines, and the installation of 103 distribution transformers. Electrification works in the district have been completed, and the land acquisition process for the substations is currently in progress.

The project has achieved 99% physical progress and 98% financial progress. Once fully completed, it will provide reliable electricity access to approximately 30,000 households across both districts.

Khotang - Udayapur 11/0.4kV Rural Electrification Project

The objective of the project is to substantially electrify Khotang and Udayapur district. The scope of works in Khotang district includes 11 kV line length of 145 km, 0.4/0.23 kV line length of 410 km and 94 distribution transformers and scope of works in Udayapur district includes 11 kV line length of 155 km, 0.4/0.23 kV line length of 455 km and 108 distribution transformers.
Project has completed the works for Package-09 (Udayapur) and handed over to DCS by March 2025. After completion of works there was 154.805 ckt km 11 kV line, 462.55 ckt km of 0.4/0.23 kV line using 3237 nos 11 m and 9437 nos 8 m steel tubular poles and 108 distribution transformers was added in distribution network of Udayapur DCS.

Package-08 (khotang) has also been completed. Now the verification of works according to As Built Documents submitted by contractor is ongoing.

Kavre- Makwanpur- Ramechhap- Sindhuli Rural Electrification Project

The "Kavre-Makwanpur-Ramechhap-Sindhuli Rural Electrification Project" is a major government initiative targeting the full electrification of Kavre, Makwanpur, Ramechhap, and Sindhuli districts. This project represents a critical step in enhancing reliable energy access in remote regions, improving living standards, and catalyzing socio-economic development. The initiative was officially launched in the fiscal year 2078/79.

The project is structured into three packages, each focusing on critical development to enhance regional power access. Under the Makwanpur district package, construction of 110.830 ckt-km HT Line, 236.253 ckt-km LT Line, and installation of 120 transformers was completed. Under the Sindhuli district package, 115.627 ckt-km HT Line, 332.72 ckt-km LT Line, and 60 transformers were completed. The package covering Kavre and Ramechhap districts completed the construction of 74.56 ckt-km HT Line, 397.55 ckt-km LT Line, and installation of 42 transformers.

A Distribution Transformer successfully charged at Makwanpur site

The contract was awarded to M/s Sigma Con Pvt. Ltd. for the electrification works in Sindhuli, Kavre, and Ramechhap districts, and to M/s Narendra Electrobyte JV for the electrification in Makwanpur district. The contractors successfully completed all the planned work under these Packages by the fiscal year 2081/82. All completed works were handed over to the related distribution centers. Approximately 15,000 households have been directly and indirectly benefited from this initiative.

Nawalpur Rural Electrification and Chusang (Mustang) 33 kV Transmission and Substation Construction Project

The project was initiated in fiscal year 2021/22 with the aim of fully electrifying the Nawalpur and Mustang districts.
In Nawalpur, the work included the construction of 109.83 km of 11 kV lines & 149.67 km of 0.4/0.23 kV lines and

installation of 41 units of 11/0.4 kV transformers under tender no. NEA/DCSD/PTSD/REP/078/79/PACKAGE-15(RE1). All activities under this tender were completed by December 2024.

For Mustang, an agreement was signed on July 6, 2023, to construct a 100 km 33 kV transmission line from Kobang to Charang under tender no. NEA/DCSD/PTSD/REP/079/80/PACKAGE-18. By the end of the last fiscal year, over 80% of pole installation and more than 60% of conductor stringing had been completed. The remaining work is expected to be finalized by December 2025.

In addition, tender for the construction of two 3 MVA, 33/11 kV substations in Chaile and Charang areas of Mustang was announced in January 2025. This is currently in the technical bid evaluation phase.

Darchula-Dolpa Rural Electrification Project

Line Erection works at Darchula District

The scope of the project is construction of 2 Nos. of 33/11 kV Sub-Station in Darchula District one in Lekam and another in Byas and construction of 11/0.4 kV distribution network in both the districts which includes 230 km of 11 kV network extension and 375 km of LT extension in Darchula District and 130 km of 11 kV network extension and 225 km of LT extension in Dolpa District. The status for Darchula District is 80 Load Centre out of 123 Load Centre has been charged and handovered to Darchula DCS, NEA and for Dolpa District, 90% of Line Materials has been delivered to site and the Erection works is in Progress. The Project was initiated at year F/Y 2079/080 and is expected to complete by F/Y 2082/83.

Projects Under Provincial Offices

To aid the target of Government of Nepal to fully electrify all the districts of Nepal, the Provincial Offices are conducting the projects through their Provincial Offices. The projects are funded by the Government of Nepal. The projects are described briefly below, under the respective Provincial Offices.

Koshi Provincial Office

Construction of 33 kV Sub-transmission Line from Bhedetar sub-station to Rajarani sub-station

A 33 kV single circuit sub-transmission line is currently being constructed from Bhedetar to Rajarani to supply the 33/11 kV 3 MVA Sub-station at Rajarani, Dhankuta. Almost 80% of the 13m long telescopic poles have been erected and conductor stringing has been completed in most of the sections. Remaining works is expected to be completed within 5 months if ROW issues were resolved by Ministry of Roads.

Construction of Unmanned 33/11 kV 6/8 MVA Letang Substation

Construction of Unmanned 33/11 kV, 6/8 MVA sub-station at Letang, Morang has already been started which is due to finish in coming fiscal year to address poor and unreliable power supply in Letang and its vicinity and civil works has been almost finished.

Reinforcement of 33kV, 11kV & 400/230V Line Along East-West Asian Highway

Keeping the issues encountered during the procurement of right of way while constructing a new transmission line and ever increasing load, especially along the Terai belt, Koshi Provincial Office in joint collaboration with Department of Road (ADB) has initiated the reinforcement works of 33kV, 11kV & 400/230V lines along the highway under two packages with a new 33 kV sub-transmission line along East-West Asian Highway while the process of road expansion is underway.

Madhesh Provincial Office

Bhagwanpur 33 kV Transmission Line and Substation Project:

The major components of the project include the construction of 20 km of 33 kV Line, 30 km of 11 kV line & 33/11 kV 10/13.3/16.6 MVA substation at Bhagwanpur in Siraha District. Almost 98.5% of the work of the project is completed and the project will be completed by the end of September 2025.

Haripurwa Basatpur 33 kV Transmission Line and Substation Project:

The major components of the project include construction of 20 km of 33 kV Line, 20 km of 11 kV line & 33/11 kV 10/13.3/16.6 MVA substation at Haripurwa-Basatpur in Sarlahi District. Substation is charged on Feb-2025 due to which reliability of power supply and voltage stability in Malangwa distribution area is improved.

Gadhariya Dumariya 33&11 kV Transmission Line and Substation Project:

After successful operation of the substation, the western area of Sarlahi district is getting reliable electricity supply.

Nijgadh Kolhbi 33/11 kV S/S Construction project:

The major components of the project include construction of 22 km of 33 kV Line & 33/11 kV 20/24 MVA substation. 33kV line erection work is 99% completed and civil work for the substation is almost completed. Switchgear drawing is under approval process. Overall work progress is 22% by the end of this fiscal year.

Balardah to Bhardah 33 kV Transmission Line Project:

10.5 km Balardah to Bhardah 33KV line is completed in June-2025 , due to which reliability and quality of power supply in Kanchanpur DC's has been improved.

Bagmati Provincial Office

33kV Double Circuit Line from Malekhu S/S to Dhadingbesi S/S and Malekhu S/S to Jahare S/S

The project is funded by Nepal Electricity Authority (NEA). The Contract agreement was signed on FY 2079/080. Under this project 33 kV lines will be constructed from Malekhu 132/33 kV Sub-station to Dhadingbesi and Jahare 33/11 kV Sub-station. Currently these substations are connected by 33 KV line from Ratamate 33/11 kV Sub-station which is too long and tapped directly at various points. Recently 33 kV line from Malekhu S/S-Dhadingbesi S/S has been charged.

As of Shrawan 2082, 85% of the total works has been completed. The progress of each section is as follows.

S.N.	Name of Section	Total Line length (km)	Constructed Line Length (km)	Remaining (km)
1	Malekhu S/S-Dhadingbesi	21	21	-
2	Malekhu S/S-Jahare S/S	9	5	4
	Total	30	26	4

After the completion of this project, Dhadingbesi and Jahare 33/11 kV substation will be fed by Malekhu 132/33 kV Sub-station and hence the reliability of electricity supply of these areas will significantly improve. Also, the Malekhu 132/33 kV Sub-station - Dhadingbesi section is important for evacuation of power generated by small hydropowers in Dhadingbesi, Salyantar and Baseri areas.

Bagmati Province Division Office

Jagatpur- Madi 33 kV Underground Sub Transmission Line Project

The scope of this project is to provide a second backup circuit to the existing 33 kV UG line from Rapti River

to Riyu River section of Chanauli-Madi 33 kV sub-transmission line. The second circuit of 8.05 Km length, will ensure increased reliability and continuous supply in Madi, Chitwan. The project is funded by Government of Nepal. The SEIA (Supplementary Environment Impact Analysis) report has been submitted to Ministry of Forest and Environment. The report has also been submitted for approval from UNESCO through Department of National Parks and Wildlife Conservation. After receiving approval from UNESCO, the documentation works for this project will be completed till that time and the project is scheduled to be completed by F/Y 2082/83 BS.

Gandaki Provincial Office

Righa-Kharbang 33 kV Transmission Line and Substation Project:

The main scope of the project is construction of 33 kV transmission line and 33/11kV, 3 MVA substation. This project aims to meet the growing demand of electricity of Kharbang, Baglung and its vicinity. Also, power generated by IPP will be connected to this substation. It consists of about 19 km long Harichaur-Kharbang 33 kV single circuit DOG conductor transmission line. Construction of 33 kV line is hindered by some local issues regarding the right of way. Provincial office is coordinating with the local governance for solution of the same. The project was funded by GoN and is expected to complete within first six months of coming fiscal year. Substation project has been cancelled as a new 132/33 kV Substation is under construction in nearby place of Paudi-Amarai of Gulmi District and Burtibang of Baglung District. We are also constructing the 33kV Transmission from Kharbang bazar to Paudi-Amarai 132/33kV Grid Substation. After the completion of that substation,extension of Righa-Kharbang 33 kV Transmission line up to Paudi-Amarai Substation, the power quality and system reliabilitywill be improved in the west region of Baglung district.

Lumbini Provincial Office

33/11 kV Saljhandi Substation

The construction of single circuit 33 kV line from 132/33 Motipur Grid Substation to Saljhandi Substation was completed in fiscal year (2077/078). The construction of Saljhandi 33/11kV Substation was completed in fiscal year 2080/81 and construction of civil work viz. boundary wall and office building was still remaining which is completed in this fiscal year.

Lumbini Province Division Office

Expansion and Strengthening of Substation Infrastructure

The demand for electricity continues to rise across both urban and rural areas. To address this, several substations currently under construction will be completed and energized in the coming fiscal year. These include Maurighat, Gadawa, Rukumkot, Kakri, Hapur, Mukundada, and Kamirechaur substations, among others. These new additions will not only reduce the load on existing substations but also improve voltage levels, ensure stable power supply, and accommodate future load growth.

In addition, reinforcement of the 132/33 kV Kohalpur Grid Substation (136 MVA), once fully operational, will significantly enhance the transmission backbone of the region.

Enhanced Transformer Repair and Maintenance Program

Recognizing the crucial role of distribution transformers in maintaining uninterrupted power supply, the Provincial Division Office plans to further expand its transformer repair and maintenance operations. Building on the success of the previous year where approximately 150 transformers were repaired, the goal for the upcoming fiscal year is to double the maintenance capacity to around 300 units.

This will be achieved by fully utilizing the newly operational transformer workshop and optimizing resource planning, manpower allocation, and logistics. This effort will help reduce transformer downtime, improve system reliability, and minimize outage duration for consumers.

Establishment of a Provincial Call Centre for Consumer Support

To improve customer service and create a centralized

communication platform, the Provincial Division Office plans to establish a dedicated Call Centre. This call centre will serve as a single-window communication system to receive and respond to consumer complaints, outage reports, billing issues, and service requests in real-time.

The system will be integrated with the Customer Relationship Management (CRM) platform to ensure faster resolution, tracking of service history, and improved transparency. By leveraging technology and real-time data, the call centre will help build trust with consumers and improve public perception of NEA services.

Focus on System Loss Reduction and Energy Theft Control

While significant progress has been made in reducing non-technical losses, further efforts will be directed toward tightening field-level monitoring, expanding theft detection mechanisms, and conducting regular inspection campaigns in vulnerable areas. Enhanced coordination with local governments and security forces will continue to ensure strict enforcement against energy theft and illegal tapping.

Alongside this, technical loss reduction measures such as upgrading conductors, balancing loads, and capacitor bank installations will continue

Lumbini Provincial Office

KPO/2078/079-33kV Line-04:Supply, Delivery, Installation, Testing and Commissioning of 33kV Transmission Line from Chaukha S/s, Jajarkot District to Tripurakot, Dolpa District.

33kV Tranmission Line from Chaukha S/s, Jajarkot District to Tripurakot Dolpa S/s is under Construction and will be completd within next 5 months. The Contractor for this project is M/s Sunita & Kabita/Maa Shakti J.V., Bhaktapur. This line will provide 33kV line to under construction 33/11kV Tripurakot substation in Dolpa district.

KPO/2078/079/Kalikot - Jumla 33kV Line (RE): Supply, Delivery, Installation, Testing and Commissioning of 33kV Transmission Line from Manma Substation, Kalikot District to Khalanga Substation, Jumla District

33kV Tranmission Line from under construction Manma, S/s, Kalikot District to Khalanga, Jumla S/s is under Construction and will be completd within next 8 months. Transmission line will access the Jumla district to the National Grid by 33kV Line. The Contractor for this project is M/s Sunita & Kabita/Laa Nirman J.V., Bhaktapur.

KPO/2078/0779-SS-01: Supply, Delivery, Installation, Testing and Commissioning of 33/11KV, 3MVA Substation at Gamgadi, Mugu District and Tripurakot Dolpa District.

The 33/11kV, 3 MVA substations are under construction at Gamgadi, Mugu and Tripurakot, Dolpa districts and will be completd within next 6 months. Project will access Aathbis Municipality Area of Dailekh District to Grid through this substations and also provide reliable 33kV supply to Kalikot. The Contractor for this project is M/S MSIPL-ENPL JV (Mahavir Shree International-Energetic Nepal JV), Kathmandu.

NEA/DCSD/RE/KP/2079/80: Design, Installation/ Erection, Testing and Commissioning of Distribution Network in Karnali Province

In this project construction of 11/0.4 kV line and installation of distribution transformer in different area of Surkhet, Dailekh and Salyan districts. The aim of the works is to fully electrify the mentioned districts. The works under the project will completd within next 9 months. This project will access Surkhet, Dailekh and Salyan districts to grid line.

Sudurpaschim Provincial Office

Budar-Jogbuda, Bagarkot (Dadeldhura) 33kV Transmission Line and Substation Project

The scope of this project includes Construction of Syaule – Bagarkot 33 kV Line and 33/11 kV substation at Bagarkot, Construction of Budar – Jogbuda 33 kV Line and 33/11 kV substation at Jogbuda of

Dadeldhura district and Construction of 11/0.4/0.23 kV Distribution System in those areas. This project is funded by Government of Nepal and NEA as well. In the first phase Syaule–Bagarkot33kV line and 33/11 kV substation at Bagarkot is completed and in second phase, Budar – Jogbuda 33 kVline and 33/11 kV substation at Jogbuda as a the part of substation is completed end of this F.Y. 2081/082.

Khodpe (Baitadi)-Chainpur (Bajhang) 33 kV Transmission line and Substation Project

The scope of this project includes construction of 33/11 kV substation at Bagthala & Chainpur of Bajhang District, 33 kV lines From Baitadi Khodpe to Bajhang, 11kV lines & 0.4kV lines. This project is funded by Government of Nepal and NEA. 33kV line and 33/11 kV Substation has been completed and capitalization work is also completed and remaining 11kV & 0.4kV Line will be completed in this F.Y. 2082/083.

Sanfebagar-Chamara-Chautara33kV Transmission Line and Substation Project

The scope of this project includes construction of 33 kV line from Rajpur to Tikhatar, 33/11kV substation at Tikhattar (Doti) and 11/0.4/0.23 kV distribution system at surrounding areas. The construction of 33 kV line and Substation is completed and Construction of 11/0.4/0.23 kV distribution line is expected to be completed by the second quarter of F.Y. 2082/083.

Sanfe-Manma-Jumla 33kV Transmission Line & Substation Project

The scope of this project includes construction of 33 kV line from Sanfe to Kamal bazar of Achham district, 33 /11 kV substation at Kamal bazar and 11/0.4/0.23 kV Distribution System at surrounding areas of this substation. Substation and 33kV Line is completed and handed over to Achham DCS. 11/0.4/023 kV Line construction contract has been awarded and expected to be completed in the fiscal Year 2082/083.

Attariya-Punarbas 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33 kV line from Belauri to Punarbas, 33/11 kV substation at Punarbas of Kanchanpur district and 11/0.4/0.23 kV distribution system in those areas as required. 33 kV line is in completed this F.Y. and the substation is under construction which is expected to complete by the end of F.Y. 2082/083.

Sanfebagar - Achham – Martadi33 kV Transmission Line & Substation Project

The scope of this project includes construction of 33kV line from Sanfebagar to Martadi, 33/11 kV substation at Martadi of Bajura district and 11/0.4/0.23 kV distribution system at surrounding areas of this substation. 33kV line and Substation is completed in F.Y. 2081/082.

Sakayal (Dadeldhura) 33 kV Transmission Line & Substation Project

The scope of this project includes construction of 33/11 kV substation at Sakayal, 33 kV line construction from nearby existing line of Dadeldhura district and 11/0.4/0.23 kV distribution system at surrounding areas of this substation. 33/11 kV line and Sakayal substation are under construction phase and expected to be completed by the first quarter of F.Y. 2082/083.

Patan-Melauli 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33 kV line from Patan to Melauli, construction of 33/11 kV substation at Patan and Melauli of Baitadi district and 11/0.4/0.23 kV distribution system in those areas as required. Construction of 33kV Line from Patan to Melauli is completed and Substation is in Construction phase. Civil part of Substation is completed and only electrical part is left on the both patan and Melauli Substation and expected to be completed by the end of F.Y. 2082/083.

Paribagar-Latinath 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33kV line from Balanch to Marma, construction of 33/11 kV substation at Marma (Paribagar) of Darchula district and 11/0.4/0.23 kV distribution system in those areas as required. 33kV line from Balanch to Marma and 33/11

kV Marma substation is completed in the fiscal year 2081/082 and Construction of 11/0.4/.23 distribution Line contract has been awarded and is ready for construction phase and expected to be completed by the end of F.Y. 2082/083.

Lamki-Sugarkhal 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33 kV line from Lamki to Sugarkhal, Construction of 33/11 kV substation at Sugarkhal of Kailali District and 11/0.4/0.23 kV distribution system in those areas as required. The construction of 33kV line is completed and 33/11kV Substation is expected to be completed by the end of F.Y. 2082/083.

Lamki- Tikapur 33kV Line

New 33 kV double circuit line has being constructed from Lamki grid s/s to Tikapur S/S & onward in order to provide the Separate 33kV Line to Tikapur & Joshipur s/s.

Dhangadhi- Punarbas 33kV Line

33kV Single circuit line has been constructed from Dhangadhi to Punarbas. It aims to provide dedicated line from Attariya grid s/s. to the on constructing 33/11kV Punarbas substation. For this purpose 33kV line from Attariya grid s/s to Dhangadhi periphery is already constructed.

Lalpur-Kaluwapur Line Upgrade

The existing 33kV line from Lalpur grid substation to 33/11 Kaluwapur substation consists of Dog ACSR conductor, by which the Kaluwapur as well as Belauri 33/11kV s/s is fed. This censes the serious voltage drops and fluctuation access along with high transmission losses. To resolve these ongoing issues 33kV Lalpur to Kalwapur s/s section is upgraded by 0.15 Sq. inch ACSR (wolf) conductor. The up gradation works in under construction.

Lalpur –Mahendranagar 33kV line

New 33kV line from Lalpur grid s/s to Mahendranagar 33/11kV s/s is under construction. This line is being constructed to provide uninterrupted supply to Mahendranagar s/s. which will enhance supply reliability.

Mahendranagar- Gaddachauki

33kV line construction from Mahendranagar s/s to Gaddachauki s/s is on the verge of completion. This line will enhance the supply reliability to consumer which is fed from Gaddachauki s/s.

Lalpur Beldadi 33kV line & S/S

The Beldadi rural municipality has being supplied the electricity from the Belauri s/s. Being Belauri very much far from Belauri. The 11 kV feeder serving Beldadhi area has lengthy line,due to which it has been subjected to the serious voltage drops as well as voltage fluctuation. To resolve this issue 33/11kV s/s. has been proposed at Beldadi municipality. & the 33 kV line from Lalpur grid s/s to Beldadi. For this purpose, the adequate quantity of land is already given to the Nepal Electricity Authority by the Beldadi Municipality.

Gaddhachauki- Chadani Dodhara

33kV line new line has been proposed to provide reliable & uninterrupted supply to Dodhara substations. Since old line has been passed through the jungle areas & also somepart of it throught Neighbors land section, which always make a bit of time to restore the line when fault occurred. So, new line is proposed to enhance reliability of the supply.

Gokuleshwar Switching Station

Gokuleshwar 33 kV switching station is proposed to provideswitching facility for the 33kV line going to Darchula & Baitadi District, which came from Balanch s/s. This will enhances easiness to the line operation & maintenance.

Basauti- Bela S/s.

The Basauti Bela s/s. & 33 kV line work has been proposed to supply quality & reliable supply to consumer of this areas.

Project Management Directorate

The Project Management Directorate (PMD) within the organizational structure of the Nepal Electricity Authority (NEA) is tasked with the execution and facilitation of projects financed by the Norwegian Government, the Asian Development Bank (ADB), and the European Investment Bank (EIB). PMD is responsible for the preparation, procurement, and implementation of all ongoing and upcoming projects funded by ADB and the Norwegian Government.

Currently, PMD is implementing a wide range of projects in the energy sector, including transmission lines, transmission substations, distribution systems, distribution substations, modernization and automation of distribution networks, distribution control centers, and smart metering systems under major ADB-financed programs such as: (i) SASEC–Power System Expansion Project (SPSEP), (ii) Electricity Transmission Expansion and Supply Improvement Project (ETESIP), (iii) Power Transmission and Distribution Efficiency Enhancement Project (PTDEEP), (iv) SASEC Power Transmission and Distribution System Strengthening Projects (SASEC PTDSSP), (v) Electricity Grid Modernization Project (EGMP) and (vi) Electricity Transmission & Distribution Strengthening Project (ETDSP).

In addition, PMD is leading environmental and engineering studies for various transmission line projects of up to 400 kV voltage level, with a cumulative length exceeding 1000 km, along with associated substations. These studies are conducted under ADB Grant No. 0361: Project Preparatory Facility for Energy (PPFE).

PMD's current project portfolio exceeds USD 1.0 billion, with contributions from ADB, the Norwegian Government, EIB, and the Government of Nepal.

Beyond transmission and distribution, PMD is also spearheading the integration of advanced technologies within NEA. These include grid substation automation, smart metering, underground distribution systems, distribution automation, solar energy projects with Battery Energy Storage Systems (BESS), Data Centers, Distribution Control Centers, Revenue Management Systems (RMS), and Enterprise Resource Planning (ERP) systems.

Additionally, PMD is actively constructing 33/11 kV substations, 33 kV lines, 11 kV lines, and 400 V lines in key and underserved areas. These developments have significantly enhanced NEA's ability to expand electricity access, reduce system losses, and improve supply reliability.

PMD engagement in distribution sector includes following major works:

1. Distribution System Augmentation and Expansion Project under PMD has completed the construction of 250 MVA of 33/11 kV SS including substation capacity upgradation at 12 places totalling 120 MVA and 20 new substations totalling a capacity of 130 MVA, 394 km of 33 kV line, 543 km of 11 kV line and 522 km of 0.4 kV line. The construction of remaining 5 substations is ongoing. The "Rural Electrification and Distribution System
2. Reinforcement in Province No. 2 (Madhesh Province)" project is being executed with financial support from the Norwegian Government and the Asian Development Bank. This initiative focuses on strengthening the distribution infrastructure in Madhesh Province and involves the construction of 323 km of 33 kV lines, 950 km of 11 kV lines, and 1000 km of 0.4 kV lines, along with the development of 10 new 33/11 kV

substations and the installation of 520 distribution transformers, so far 3 sub-stations; Birendra Bazar & Mahendranagar & Bardibas (Lot-2), have been completed and remaining are in progress.

3. In Kathmandu district, reinforcement of the distribution system includes the ongoing installation of 743 km of 11 kV and 1102 km of 400 V XLPE underground cables. So far, 684 km of 11 kV and 893 km of 400 V cables have already been laid.
4. The distribution system reinforcement works in Lalitpur, Bhaktapur, Pokhara, and Bharatpur are also ongoing. The project scope includes 247 circuit km of 11 kV underground lines, 177 circuit km of 400 V underground lines, 105 circuit km of upgraded 11 kV overhead lines, and 125 circuit km of upgraded 400 V overhead lines. So far, 379 km of HT and LT cables have been laid.
5. PMD has implemented a pilot project involving the installation of 97,000 smart meters for consumers under the Ratnapark and Maharajgunj Distribution Centers. In its second phase, the project will expand to install 55,000 smart meters across all distribution centers within the Kathmandu Valley.
6. To facilitate automation in the underground distribution system under various ongoing projects, PMD has initiated the development of a Distribution Command and Control Centre (DCC). This facility will enable continuous monitoring and control of both medium and low voltage distribution networks within Kathmandu Valley, significantly improving supply reliability and service quality for end consumers.
7. Under PMD, 62 charging stations having 142kW Fast Charging capability, have been constructed in major cities and critical locations across the country and are all are in operation with an average daily electricity sale of 35,000 units.

Distribution Line and Substation Department

Distribution Line and Substation Department (DLSD) within PMD facilitates the execution of 33 kV or lower voltage distribution line and substation projects. The department is also looking after the smart meter projects, distribution control and data centre project, grid tied solar plant with BESS in Karnali, solar viability gap funding project and EV charging station development project. The brief descriptions of the projects being undertaken by DLSD are as follows:

Distribution System Augmentation and Expansion Project

This project was initiated to augment and expand the distribution system all over Nepal to improve reliability of distribution system, enhance quality of electricity supply and reduce distribution system losses. The project is being executed in following 3 lots of contracts:

Lot 1: This lot of contract intends to expand distribution network in the eastern region of Nepal.

The scope of this contract consists of construction of 13 numbers of 33/11 kV new substations, 167 km of 33 kV line, 197 km of 11 kV line, 165 km of 400/230 V line and installation of 150 numbers of 11/0.4 kV distribution transformers. The contract was awarded to M/S A2Z Infra Engineering Limited, India on 15 June, 2016. Out of total 13 numbers of substations, 9 substations have been commissioned & charged and has contributed to 67 MVA additional capacity into the system. Similarly, a total of 142 km of 33 kV line, 101 km of 11 kV line and 90 km of 400/230 V line has been completed and 45 number of distribution transformers have been installed till date. The project is expected to be completed by the end of 2025.

Lot 2: This contract lot intends to expand distribution network in the western region of Nepal. The scope of this contract consists of construction of 12 numbers of 33/11 kV new substations, 181 km of 33 kV line, 147 km of 11 kV line, 140 km of 400/230 V line and installation of 182 numbers of 11/0.4 kV distribution transformers.

The contract was awarded to M/S A2Z Infra Engineering Limited, India on 15 July, 2016. Out of total 12 numbers of substations, 11 substations have been commissioned & charged and has contributed to 63 MVA additional capacity into the system. Similarly, a total of 165 km of

33 kV line, 100 km of 11 kV line, 67 km of 400/230 V line has been completed and 55 number of distribution transformers have been installed till date. The project is expected to be completed by the end of 2025.

Lot 3: This contract lot intends to improve distribution network all over the country. The scope of this contract consists of upgradation of 12 numbers of 33/11 kV existing substations and construction of 87 km of 33 kV line, 342 km of 11 kV line, 365 km of 400/230 V line and installation of 262 numbers of 11/0.4 kV distribution transformers. The contract was awarded to M/S East India Udhyog Limited, India on 22 February, 2016. This contract has almost been completed and is under successful operation.

Rural Electrification and Distribution Network Improvement of Tanahu District

This project intends to electrify and improve the networks of the nearby villages which will be affected by the Tanahu Hydropower Project and is financed by ADB through Loan No.2990/2991-NEP (SF): Tanahu Hydropower Project. The scope of this project consists of construction of two 33/11 kV, 6/8 MVA SS at Saranghat and Ghiring, 40 km of 33 kV sub-transmission line, 222 km of 11 kV line, 345 km of 400/230 V line and installation of seventy (70) nos. distribution transformers (11/0.4 kV). The contract was awarded to M/s JV of East India Udhyog and Waiba Infratech on 29 November 2018. This project has been completed and is under successful operation.

Utility Scale Grid Tied Solar Project

The objective of this project is to promote grid tied Solar PV Projects in Nepal through Viability Gap Funding (VGF). GON has received grant from Strategic Climate Change Fund under ADB administration of SASEC Power System Expansion Project.

In the first phase, five (5) solar power developers had been selected through competitive bidding process and Power Purchase Agreement was signed with them to procure solar energy generated from utility scale grid tied solar power plant with total capacity of 24 MW. Of which, three solar power plants of total 11 MW has been commissioned and connected to NEA grid. Remaining two plants are in various stages of development.

Karnali Solar Energy Project

The objective of this project is to Design, Engineering, Supply, Construction, Installation, Testing, Commissioning and Operation & Maintenance support of (AC) Solar PV Power Plants with Battery Energy Storage System at Mugu (360 kW AC and 2200 MWh Battery), Dolpa (620 kW AC and 2000 MWh Battery), Jumla (950 kW AC and 3800 MWh Battery) and Humla (995 kW AC and 3000 MWh Battery) districts of Nepal.

The topographical, geo-investigation, grid connectivity survey of all four sites has been completed. Both the civil and electrical design of all four sites have been finalized. The civil construction of Jumla site has already started wherein the guard house, store house, Retaining wall, foundation works for BESS and road alignment is ongoing and that of other sites of project is likely to start soon.

Kathmandu Valley Central and Northern Distribution System Enhancement Project

This objective of the project is the enhancement and rehabilitation of the distribution system (11kV and 0.4kV) for the areas mostly from the Maharajgunj Distribution Center in the Northern region of the Kathmandu Valley. The scope of the project includes design, supply, installation and commissioning of underground distribution network under Maharajgunj Distribution Center including reinforcement.

The contract agreement was signed on 15 March, 2019 with KEI Industries Limited, India. As of now, 117 km of trench work, 613 km of pipe laying, 210 km of HT cable, 340 km of LT cable and 2441 numbers of different foundation for feeder panels/RMU has been completed in Maharajgunj, Lazimpat, Baluwatar, Bansbari, Budhanilkantha, Gongabu,Tokha, Dhumbarahi, Basundhara, Samakhusi, area. Due to unavailability of road cutting permission from the road department and local bodies, about 25% of the road section of the project is yet to be started. This project is expected to

be completed by end of 2025.

Installation of Distribution Transformer for commissioning of Underground Network.

Kathmandu Valley East and South Distribution System Enhancement Project

The project intends the enhancement of distribution system and/or rehabilitation of distribution system (11kV and 0.4kV) with the provision of automation for the areas under Ratnapark Distribution Center. The scope of the project includes design, supply, installation and commissioning of underground distribution network using trenchless boring methodology under Ratnapark Distribution Center including reinforcement and automation. The major work includes the construction of underground 11kV Line with 283 Km XLPE cable & underground 400-volt Line with 382 Km XLPE cable, underground optical fiber laying: 84 Km, Construction and upgrading of 11 kV overhead line by AB Cables.

The contract agreement was signed on the 15 March, 2019 with KEI Industries Limited, India. Till date, 282 Km HT cable laying, 360 Km LT cable lying has been completed in Chabahil, Gaushala, Airport, Tinkune, Paniphokari, Lazimpat, Koteshwor, Nayabazar, Thamel, Garidhara, Dhobikhola Corridor, Teku, Tripureswor, Samakhusi, Lainchaur, Maitidevi, Dillibazaar, Putalisadak area. Cable, Pipe laying and foundation for panels/RMU for remaining area is in progress. Due to effect of Covid-19 pandemic, inadequate road cutting permission the project is expected to be completed by end of 2025.

Kathmandu Valley Smart Metering Project

NEA's first smart metering initiative marks a major step in modernizing its distribution system by introducing smart meters across all consumer categories. The project aims to improve operational efficiency and reduce distribution losses, thereby enhancing NEA's financial performance.

As a pilot, the project implemented an Advanced Metering Infrastructure (AMI) system for 97,000 consumers in the Ratnapark and Maharajgunj distribution centers. Awarded to M/S Pinggao Wisdom JV in March 2019, the project has already shown benefits such as lower meter reading costs and reduced Aggregate Technical and Commercial (AT&C) losses. The AMI system includes a Head End System (HES), Meter Data Management System (MDMS), Business Intelligence (BI), and Network Management System (NMS). Smart meters communicate using a resilient RF Mesh Network, which forms a self-healing, dynamic system. Meter data is collected through Data Concentrator Units (DCUs) installed on poles, which relay information to the HES via GPRS or 3G.

RF Mesh technology, ideal for dense urban areas, enables multi-hop and ad-hoc communication and is compatible with existing infrastructure like fiber optics and telecom towers. The project was completed in 2022 and is currently in the final stage of handover to distribution centers. Its success paves the way for a

nationwide rollout of AMI systems.

Installation of Smart Meter at Residential Consumer

Kathmandu Valley West Distribution System Enhancement Project

Background:

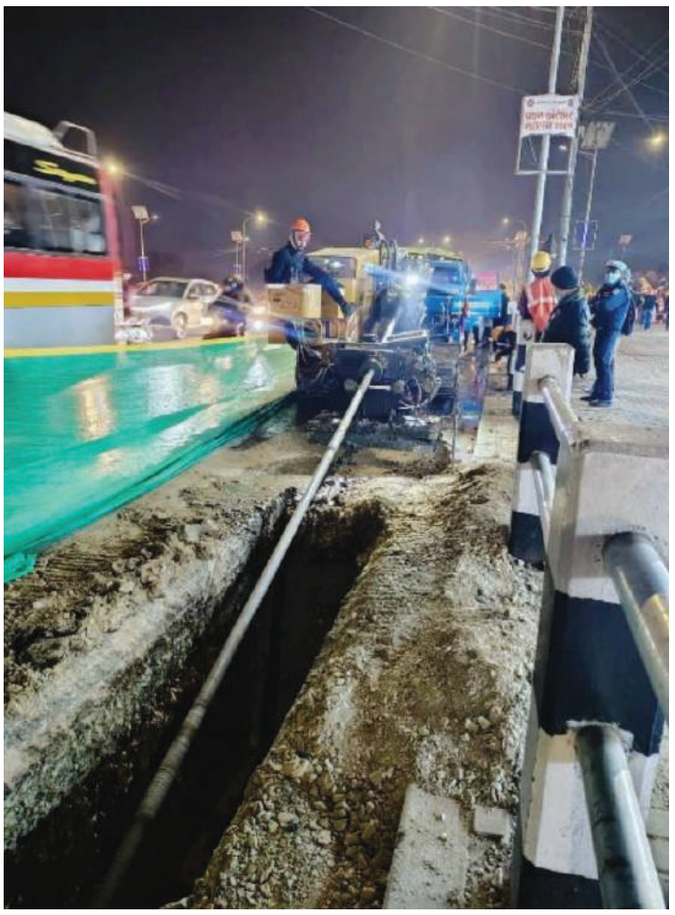
This project is a sub-project under Power Transmission and Distribution System Strengthening Project (PTDSSP) which is funded by ADB under the loan no. 3943-NEP(COL). The project intends towards the enhancement of distribution system and/or rehabilitation of the distribution system (11kV and 0.4kV) with the provision of automation for the areas under Kirtipur, Kuleshwor, Baneshwor, Balaju and Jorpati Distribution Center. The scope of the project includes Design, Supply, Installation and Commissioning of Underground Distribution Network using Trenchless boring methodology under Kirtipur, Kuleshwor, Baneshwor, Balaju and Jorpati Distribution Center including Reinforcement and Automation.

The project also covers the service connection work in Maharajgunj and Ratnapark Distribution Center.

Work Progress:

Contract was signed on 24th June, 2020 with M/s Larsen & Toubro Limited, India. The contract effective date started from 20th December, 2020 and time for completion of the project is 30th June, 2026. Survey and equipment GTP, Drawing and Type test approval work have been completed. The 50 nos. of HT feeders and 592 Distribution network (LT) design has been approved. The construction work at Kalanki to Thankot Checkpost and Syuchatar Substation area under Kuleshwor Distribution Center, Chabahil Switching Station to Kalopul to Ratopul, Dovan bridge upto Bijulu bazar arc bridge, Old Baneshwor to Sankhmul bridge under Baneshwor Distribution Center and Mulpani Switching station to New Mulapni Substation under Jorpati Distribution Center are under progress. 129 nos. of Ring Main Unit (RMU), 538 nos. of Feeder Pillars and 1300 nos. Service Pillars has been installed. HDPE pipe laying of 600 k.m., HT & LT XLPE Cable laying of 385 k.m. and around Eighteen Thousand Service Cable Laying work has been completed. And among the installed equipments 90 nos. of RMU, 280 nos. of Feeder Pillars, 850 nos. of Service Pillars, 225 k.m. of XLPE Cables and around 5000 service cables are charged. In the routes like Jaddibutti to Sinamangal Mandir, Sinamangal Mandir to Khahare Chowk, Sinamangal Mandir to Manohara Bridge, Balkhu to TU Gate, Balkhu to Kalimati Chowk, Kalimati to Soaltee mode are completed and electricity to NEA cosnumers

RMU Charging at Jaddibutti- Pepsicola route.



HDPE pipe laying using HDD machine.

are fed through UG Networks.

Lalitpur Bhaktapur Distribution System Reinforcement Project

This project aims to modernize and enhance the reliability of the power distribution system in the areas served by the Lagankhel, Pulchowk, Bhaktapur, and Thimi Distribution Centers. The initiative involves both rehabilitation of existing infrastructure and the integration of advanced automation technologies to support a smarter, more resilient network.

The key components of the project comprise the construction of 120 circuit kilometers of underground 11kV distribution lines and the installation of 100 circuit kilometers of underground 400V lines to enhance system reliability and reduce overhead congestion. Additionally, 120 kilometers of underground optical fiber shall be laid to support communication and automation infrastructure. The project has also scoped the upgrading of 100 circuit kilometers of 11 kV overhead lines and 120 kilometers of 400V overhead lines using AB cables to improve safety, minimize technical losses, and enhance aesthetics in urban areas. Furthermore, 200 Ring Main Units (RMUs) will be installed across the network to strengthen operational flexibility, ensure fault isolation, and enable more reliable power distribution with faster service restoration capabilities.

The project is funded through a concessional loan from the Asian Development Bank under the South Asia Subregional Economic Cooperation (SASEC) Power Transmission and Distribution System Strengthening Project. It is being implemented by Project Management Directorate under Nepal Electricity Authority. The contract for the design, supply, installation, Testing and commissioning of the system was awarded to TATA Projects Limited India on June 4, 2021. The contract has been effective on September 9, 2021, and the project completion date has been extended to December 8, 2025.

Progress to date include the completion of network surveys, consumer indexing, soil investigations, civil material testing, and approval of foundation designs for LT feeder pillars. The HT and LT network design has been completed for key routes in Bhaktapur and Lalitpur. The erection work of HT and LT Underground Network has been completed approx. 70% in the Bhaktapur Section and approx. 3% in the Lalitpur Section.

As of now, the project has achieved 65.5% physical progress and 45.30% financial progress. Despite challenges such as right of way issues, safety concerns from the public, coordination hurdles with utility agencies, and delays in obtaining authority approvals, the project remains on a steady track. With over 60% of the required materials already available and major design and engineering works completed, the remaining implementation is expected to progress more efficiently.

The project has also undertaken network reconfiguration to reduce technical losses and improve Network by aligning with future planned developments. This project marks a significant step toward building a modern, efficient, and future-ready distribution network for the Kathmandu Valley.

Installation of New DTR

Pokhara Bharatpur Distribution System Reinforcement Project

The project is being executed under the loan received by the Government of Nepal from Asian Development Bank (ADB) towards the SASEC Power Transmission and Distribution System reinforcement for the "Design, Supply, Installation and Commissioning of Underground Distribution Network under Pokhara and Bharatpur Distribution Center including Reinforcement and Automation" under the Pokhara-Bharatpur Distribution System Reinforcement Project (PBDSRP).

This project aims the enhancement of distribution system and/or rehabilitation of existing distribution system (33kV, 11kV and 0.4kV) with the provision of automation for the areas under Pokhara and Bharatpur Distribution Center. The scope of the project includes design, supply, installation and commissioning of underground distribution network using trenchless boring methodology including reinforcement and automation. Work under this project is divided into two sections (Pokhara and Bharatpur). After the detailed designs, the work under Pokhara section includes underground 11 kV Line: 127 km & underground 400 Volt Line: 77 km, underground optical fiber laying: 55 km, Construction and upgrading of 11 kV overhead line by AAA Cable: 5 circuit km and RMU and LT Feeder pillar installation: 73 and 933 numbers respectively. Work under Bharatpur Section includes underground 33 kV Line: 12 circuit km, underground 11 kV Line: 88 circuit km & underground 400 Volt Line: 48 circuit km, underground optical fiber laying: 28 km, Construction and upgrading of 11 kV overhead line by AAA Cable: 12 circuit km & 400 Volt overhead line by AB Cable: 4.5 km and RMU and LT Feeder Pillar installation: 60 and 371 numbers respectively.

Contract Agreement of the Project was concluded with the successful bidder (TATA Projects Limited, India) on Oct 8, 2021 with the project completion period of two years has been extended up to 31st July 2025. The network drawing of Pokhara and Bharatpur were approved along with some section added in both the site areas. As for the supply of materials, the required materials including HDPE pipes, HT & LT XLPE and service cables, termination kits, RMU, feeder pillars, STP Poles, covered conductor and its accessories have been delivered at the respective stores.

At Pokhara, more than 140 km of HDPE pipe and over

35 km of PLB pipe has been laid primarily around the Airport to Seti section and Lakeside area. In total 106 km of the HT & LT cable has been laid. 541 numbers of civil foundation for equipment has been casted in which total 450 number of equipment (RMU's & LT Feeder pillar) have been installed. More than 50% cable used in 11 number of UG feeders is charged as of now. Similarly, in the Bharatpur site, laying of 152 km HDPE and around 43 km of PLB pipe. Additionally, 31km of 33kV XLPE cable has been laid along with over 79 km of 11kV and LT cables. Also, 365 numbers of civil foundation for equipment has been casted in which total 317 numbers of equipment (RMU's & LT Feeder pillar) have been installed. At least 5 numbers of UG feeders have been charged. With the overall project progress at 65%, the major tasks in the both the Pokhara and Bharatpur site are anticipated to reach completion within the current fiscal year with the added work scope.

Rural Electrification and Distribution System Rehabilitation Project in Province No.2

In order to achieve the goal of sustainable energy access and grid access to all, Government of Nepal and Nepal Electricity Authority have emphasized on improving the quality of electricity supply by construction of additional distribution system infrastructures including the reinforcement of existing distribution networks in province no. 2 (Madesh Pradesh) through SASEC-PTDSSP funded by ADB. The scope of works under this project include construction of ten (10) nos. of new 33/11 kV substations, 33 kV lines, 11 kV lines and low voltage distribution lines and reinforcement and rehabilitation of existing distribution networks. The project area includes 8 districts of Province 2 viz. Siraha, Saptari, Dhanusa, Mahottari, Sarlahi, Rautahat, Bara and Parsa. The project has been divided into five lots viz. Lot 1, Lot 2, Lot 3, Lot 4 & Lot 5. The contract for this project has been awarded to M/s Tata Projects Limited on 17 March, 2021. Whole province no. 2 electrification project is divided in 5 lots.

Lot 1: The scope of works consists of construction of six (6) completely new 33/11 kV substations and 65 circuit km of 33 kV line at Saptari, Siraha and Dhanusha districts which will connect these new substations and old substation from the existing and/or new network. Birendrabazar substation is already charged and in operation. Mahendranagar and Nagrain substation has been constructed already and remaining 3 substations at Pansera (Saptari), Sarlahi and Lohana are under-construction and expected to complete by September, 2025.

Lot 2: The scope of works consists of construction of four (4) completely new 33/11 kV substations and 226 km of 33 kV line at Mahottari, Sarlahi, Rautahat, Bara and Parsa districts which will connect these new substations and old substation from the existing and/or new network. Bardibas Substation has been charged already. Manara Substation is complete and testing is on-going. Dokaila and Manpur substations are expected to complete by September, 2025. Similarly, 5km Simraungadh 33kV UG line and 13.5 km 33v Loharpatti-Aurahi Line are already in operation. 18 km Piluwa- Kalaiya, Almost 40 ckt km Loharpatti-Paraul-Manara-Jaleshwor Line, 10 km Parwanipur- Dokaila lines, 10 km double circuit Piluwa-Simara SEZ are under-construction. These all lines are expected to complete by end of current fiscal year.

Lot 3: The scope of work consists of construction of 250 circuit km of 11kV, 320 circuit km of 400/230V line and installation of 170 nos. distribution transformers at Saptari and Siraha districts. Supply of almost 5500 PSC poles has been done out of which erection and stringing of almost 40km line is completed.

Lot 4: The scope of work consists of construction of 360 circuit km of 11kV, 350 circuit km of 400/230V line and installation of 175 nos. of distribution transformers at Dhanusha, Mahottari and Sarlahi districts. Supply of almost 5000 PSC poles has been done out of which erection and stringing of almost 30km line is completed.

Lot 5: The scope of work consists of construction of 340 km of 11kV, 330 km of 400/230V line and

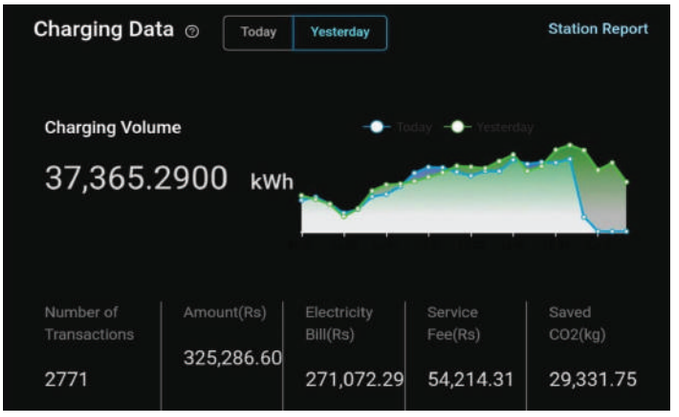
installation of 175 nos. of distribution transformers at

Lot-2 Bardibas SS charging

Rautahat, Bara and Parsa districts. Supply of almost 2000 PSC poles has been done out of which erection and stringing of almost 30km line is completed.

Electric Vehicle Charging Station Infrastructure Development Project

The project has successfully installed 62 charging stations across the country, with an average daily electricity sale of 35,000 units. Nepal Electricity Authority (NEA) operates charging stations that are the first choice for general consumers. Currently, NEA's charging stations, known as NEA Charge, form a mobile app and related Charging Management System (CMS)/Backend, creating a comprehensive and accessible EV Charging Ecosystem. With an easy payment system, simple Electric Vehicle Service Equipment (EVSE), Electric Vehicles, CMS, and mobile app coordination, charging stations installed even in remote areas are regularly operational. As of now, the NEA Charge Application has been downloaded by 30,500 general consumers who have created their accounts. Additionally, NEA operates charging stations in major cities and highways, achieving up to 10%-



Daily Station Report from Centralize Monitoring Station

40% Annual Capacity Utilization. On average, 2,500 customers daily facilitate 35,000 units of electricity distribution through these stations. On average, one charging station serves 45–50 customers daily.

Distribution System Control and Data Center Project

The Distribution System Control and Data Center Project (DSCDCP), a part of Electricity Grid Modernization Project (EGMP) encompasses the development of a SCADA (Supervisory Control and Data Acquisition System), DMS (Distribution Management System), OMS (Outage Management System) for underground electricity distribution system within Kathmandu Valley, alongside the establishment of a Tier III International Standard Data Center for the Nepal Electricity Authority (NEA). The project location is situated at NEA's Syuchatar Substation premises, under the Kathmandu Grid Division. The contract was signed between NEA and M/S Yantai Donfang Wisdom Electric Co. Ltd, China on July 2021 and the project commenced from 21st November of the same year.

The project aims to integrate 30 Remote Terminal Units (RTUs) across various substations and switching stations within Kathmandu valley, as well as some selected substations of KavrePalanchowk, Pokhara and Chitwan districts, into the Distribution Control Center (DCC) along with associated communication equipment. Currently, there are 24 substations and switching stations in the Kathmandu Valley. RTU

installation has been completed in 17 of these substations and switching stations with installations in progress at the remaining sites. The SCADA/DMS/OMS systems will enable remote configuration, monitoring, and control of the distribution systems. RTUs, RMUs, and the SCADA system will be interconnected in a distribution ring network using optical fiber connections as primary connection source, ensuring an error-free communication network. A GPRS system with 4G capacity on the other hand will serve as a secondary redundant communication medium. Outages can be supervised, managed, and maintained remotely from the control center. Similarly, the state-of-the-art Data Center facility is designed to support a wide array of computations, data storage, networking, and business applications for the organization. NEA has constructed an international standard Tier III Data Center facility, which centralizes NEAs resources and infrastructure for data processing, storage, sharing, and communication.

The Physical infrastructure of NEAs Data Center facility includes prefabricated containers with 40 racks (36 Server Racks and 4 Network Racks) with the facilities like NOC (Network Operating Center), SOC (Security Operation Center), BMS (Building Management System) and office areas. This facility is equipped with utilities like cooling, electricity, network security access, firefighting and uninterruptible power supplies meeting the requirements for Tier III standard. The project is designed to integrate with various ongoing and future initiatives, including the GIS system of Electricity Distribution Cable Underground Projects, GIS Smart Grid Project, SAS Project, RMS Project, Smart Metering System Projects, and other upcoming NEA IT projects. Successful completion of this project ensures the protection of NEAs proprietary systems and data, centralization of IT and data processing, and the application of robust information security controls. This Data Center facility serves as a benchmark for NEA's strive towards its goal of digitization. Additionally, NEA is poised to start a Disaster Recovery Centre project at the New Butwal Substation Premises in Nawalparasi District in the FY 2082/83.

The newly built Data Center facility, officially inaugurated on June 28, 2024, is now fully operational under NEA's Data Centre Division. Similarly, the Distribution System Control Centre (DCC) began its operational shift duties on June 11, 2025. NEA is on the verge of completing the project, expediting the installation of RTUs and communication equipment in all switching stations and substations. Meanwhile, the SCADA software is already installed and operational in the DCC, while DMS/OMS system is still in progress. With the gradual completion of related projects, such as the Underground Projects within Kathmandu Valley and the GIS Smart Grid Project, the completion of this project appears imminent.

Kathmandu Valley Smart Metering Project Phase II

As the first smart metering initiative of NEA aimed at equipping all consumer classes with smart meters, this project marks a significant milestone in modernizing the distribution business. It is expected to substantially improve NEA's financial health by reducing distribution losses and enhancing the overall efficiency of distribution system operations.

Under this initiative, a pilot project was implemented with an Advanced Metering Infrastructure (AMI) system covering 97,000 consumers in the Ratnapark and Maharajgunj distribution centers. The contract was awarded to M/S Pinggao Wisdom JV in March 2019. The project has already demonstrated immediate benefits such as reduced meter reading costs and a noticeable reduction in Aggregate Technical and Commercial (AT&C) losses. The AMI system comprises a Head End System (HES), Meter Data Management System (MDMS), Business Intelligence (BI), and Network Management System (NMS). Smart Energy Meters installed under this project communicate via a robust RF Mesh Network, forming a dynamic, self-healing communication system. Metering endpoints connect within a Neighborhood Area Network (NAN), while Data Concentrator Units (DCUs) installed on utility

poles collect data from up to 200 meters and relay it to the HES using GPRS or 3G networks.

RF Mesh technology, known for its ability to form ad-hoc links and perform multi-hop communication, is particularly suited for dense and complex urban environments, while also being compatible with traditional grid communication infrastructures like fiber optics and telecom towers.

Completed in 2022, the project is in its final phase of capitalization and handover to the respective distribution centers. Its success has laid a strong foundation for nationwide AMI system expansion. The project is to be financed through loan proceeds from the ADB under ETDSP.

Disaster Recovery Center Project

The Disaster Recovery Center Project (DRCP) is a significant initiative under the Project Management Directorate of the Nepal Electricity Authority (NEA). The project is financed jointly by the NEA, the Government of Nepal, and the Asian Development Bank (ADB) as a part of the broader Electricity Transmission and Distribution Strengthening Project (ETDSP).

The primary objective of DRCP is to establish a fully functional Disaster Recovery Center (DRC) for NEA at the New Butwal Substation, located in Nawalparasi District of Gandaki Province. This DRC will serve as a critical backup facility to ensure continuity of NEA's IT operations during emergencies or system failures at the primary data center. In addition to the physical DRC infrastructure, the project aims to develop a private cloud infrastructure for NEA, enhancing data security, flexibility, and digital resilience across its operations. To ensure seamless data transmission and synchronization between the primary data center and the new DRC, the project will deploy Dense Wavelength Division Multiplexing (DWDM) based optical fiber technology. This high-speed and high-capacity network backbone will enable real-time data replication and robust disaster recovery capabilities.

During the current fiscal year, the project successfully completed the bid document preparation, which was subsequently approved by ADB. Following this, NEA has already published the invitation for bids to select the most suitable contractor for implementation. The technical bid opening has been completed, and the evaluation process is currently underway. For this year, the project is focused on completing the bidder selection process and mobilizing the site for project execution.

Karnali Province Distribution System Expansion Project

The project aims to provide reliable electricity access to remote districts in Karnali Province, Nepal, including Jumla, Kalikot, West Rukum, Jajarkot, Mugu, and Dolpa. Key infrastructure development includes the installation of 463.29 km of 11 kV distribution lines, approximately 1,221.57 km of LT (Low Tension) lines, and 245 distribution transformers to enhance power supply efficiency. A major highlight of the project is the planned 33/11 kV substation in Upper Dolpa, which will bring electricity to underserved communities in the region for the first time. Currently, the project is undergoing Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE) surveys to ensure sustainable and eco-friendly implementation. Once completed, this initiative will significantly improve living standards, support economic activities, and reduce reliance on traditional energy sources, contributing to the overall development of Karnali Province. This project will also be assisted by ADB under ETDSP.

Distributed Solar Photovoltaic Project

This project aims to develop approximately 8 MWp distributed grid connected solar PV projects in public lands and rooftop buildings in Karnali Province and other places of Nepal. The scope of the project includes design, supply, installation, testing, commissioning and operation & maintenance support of Solar PV Power Plants at Karnali and other places of Nepal with upto 1 MWp capacity at each site. This initiative

is part of the Distributed Grid Connected Soar Photovoltaic (PV) Generation Facility Subproject, under the South Asia Subregional Economic Cooperation (SASEC) Electircity Transmission and Distribution Strengthening Project, funded by the Asian Development Bank (ADB). Identification of location of the solar plantation implementation sites is under process. Furthermore, solar installation sites in Surkhet, Pokhara, Bharatpur, Janakpur & Dharan are under detail study. After, finalization of the sites land lease agreement, detail feasibility study, design, tender publication, contract award, etc. and beginning of installation works shall be done with the fiscal year 2082/83.

NEA Digital Network and SCADA Expansion Project

Project Overview:

The Nepal Electricity Authority (NEA) is embarking on a significant initiative, the "NEA Digital Network and SCADA Expansion Project," currently in the Request for Proposal (RFP) phase. This project aims to revolutionize NEA's communication infrastructure and operational efficiency, including the crucial implementation of SCADA (Supervisory Control and Data Acquisition) systems across its distribution substa-tions. Leveraging NEA's existing 16,000 km OPGW (Optical Ground Wire) network across its transmission lines and SDH (Synchronous Digital Hierarchy) equipment in substations, the project will expand fiber connectivity to all 192 distribution substations and 79 transmission substations. This expansion will be achieved by laying overhead ADSS (All-Dielectric Self-Supporting) fiber with 48 cores along transmission and distribution lines.

Project Objectives and Scope of Work:

The primary objective of the Digital NEA and SCADA Expansion Project is to optimize the existing OPGW network through the integration of advanced hardware and software technologies. This optimization will facilitate seamless connections between various critical NEA entities, including substations, network el-ements, offices, data centers, disaster recovery centers, load dispatch centers, and distribution command control centers. A key priority is the extension of the OPGW network to 33 kV substations, coupled with feasibility studies for network extension to nearby offices and locations to determine the most suit-able telecommunication network options for NEA.

To meet future demands and establish a robust communication infrastructure, NEA plans to augment its existing SDH network with an OTN (Optical Transport Network) network. This strategic upgrade will en-sure enhanced capacity, reliability, and scalability for NEA's communication needs. Furthermore, in col-laboration with leading Internet Service Providers (ISPs), NEA has identified 52 transmission substation locations for the deployment of DWDM (Dense Wavelength Division Multiplexing) technology. These DWDM deployments will serve NEA's internal communication requirements and open avenues for future revenue generation through leasing excess capacity to ISPs.

The comprehensive scope of work for this project encompasses:

- Optimization and extension of the OPGW network.
- Procurement and implementation of cutting-edge software solutions.
- Implementation of SCADA (Supervisory Control and Data Acquisition) at the substation level by in-stalling RTU (Remote Terminal Unit) systems at each distribution substation.
- Augmentation of NEA's overall communication network (existing SDH with OTN).
- Installation of new OTN devices at each distribution substation level.

Project Importance:

This project will establish NEA's own robust and resilient communication network, capable of fulfilling current and future demands for various critical operational technologies. This includes, but is not limited to, advanced SCADA systems, Outage Management Systems (OMS), Advanced Distribution Management Systems (ADMS), Energy Management Systems

(EMS), and other technological advancements crucial for modernizing the smart grid. The expanded fiber network and augmented communication infrastructure will provide the backbone for real-time monitoring, control, and automation of NEA's transmission and distribution assets, leading to improved reliability, efficiency, and grid stability.

Beyond internal operational benefits, the strategic deployment of DWDM technology at 52 transmission substations presents a significant opportunity for NEA to generate additional revenue. By leasing excess fiber capacity to Internet Service Providers (ISPs), NEA can leverage its infrastructure investment to cre-ate a new income stream, contributing to the financial sustainability and growth of the organization.

Project Status:

NEA has conducted the initial survey and prepared the Network topology for DWDM & OTN network along with arial distance of fiber to be laid at pending locations covering transmission and distribution substations. The budget along with technical specification for SCADA, DWDM, OTN & ADSS with all asso-ciated software and hardware requirement is in the finalization stage and the bidding documents for the Digital NEA and SCADA Expansion Project are under preparation. This project may be awarded by the end of 2025.

Institutional Strengthening Project (ISP)

Institutional Strengthening Project (ISP) is a project under Finance Directorate. It was established with the objective of modernizing NEA's various operational activities by using various IT tools to increase efficiency and to help in Management Decision Support Systems. Presently ISP is working with the procurement and implementation of following packages: (i) Supply and Installation of Revenue Management System (RMS) (ii) Supply and Installation of Enterprise Resource Planning (ERP) based Integrated Financial Management Information System (IFMIS) and (iii) Project Management Consultant (PMC) for the supervision of implementations of IFMIS and Revenue Management System (RMS) at NEA. The procurement of these packages is funded by the Asian Development Bank (ADB) through the Electricity Grid Modernization Project - Additional Financing (EGMP-AF).

The project has signed a contract agreement with M/s LongShine Technology Group Co. Ltd, China for the "Supply and Installation of Revenue Management System (RMS)". The project commenced from 12 March, 2023 and its major milestones (Requirements Gathering, Updated FRS verification, System Customization, Data Cleansing, Finalizing Data Governance List, Piloting of Data Digitization of consumers' legacy documents, pre-UAT workshops and

Installation and commissioning of IT infra for RMS in NEA's DC at Syuchatar.

Installation & commissioning of IT infrastructure and related software in NEA's Data Center at Syuchatar) have already been completed. We are heading for Pilot Go-live of the system.

ERP is a software system that helps organizations streamline the core business processes. Nepal Electricity Authority (NEA) intends to implement ERP based IFMIS for integrated data collection, analysis and sharing platform to address the key business challenges and share the data across various functional areas which can make its business processes efficient, more robust, and reliable to meet the present and future challenges.

NEA envisages to implement IFMIS with the following objectives:

- Standardize business processes and adopt leading business practices.
- Achieve better financial management and faster financial reconciliation.
- Manage the organization with optimum utilization of enterprise resources and productive deployment of human resources.
- Real time information availability across the organization.
- Optimized reports and well-informed data driven decisions.
- Enterprise-wide seamless Integration.
- Data security and reduce IT cost in long-run.
- Single repository of master data with easy data retrieval and reporting and 'Bird Eye View" to the Top Management.

The Project Management Consultant (PMC), M/s Deloitte Touche Tomatsu India LLP is already onboard

ANNEXES

I. PROVINCEWISE SUBSTATION, 33 KV & 11 KV LINE DATA

II. ELECTRICITY DISTRIBUTION NETWORK OF NEPAL

III. ORGANIZATION STRUCTURE OF DISTRIBUTION AND CONSUMER SERVICES DIRECTORATE

I. PROVINCEWISE SUBSTATION, 33 KV & 11 KV LINE DATA

S.N.	Provincial Office	Number of 33/11 kV Substations	Substation Capacity (MVA)	Line Length (km)			Distribution Transformers	
				33 kV	11 KV	0.4/0.23 kV	Total Quantity	Capacity (MVA)
1	Koshi PO	35	676.90	1369.21	10845.44	28771.80	9458	795.11
2	Madhesh PO	30	730.80	850.00	7230.00	24870.30	8043	810.00
3	Bagmati PO	24	203.60	547.15	8177.61	26848.05	9261	1123.20
4	Bagmati PDO	13	172.80	339.41	3861.67	10024.71	3489	294.50
5	Gandaki PO	26	261.85	807.03	5906.21	15123.50	4551	375.95
6	Lumbini PO	27	409.50	1513.11	5109.17	15066.72	5247	493.35
7	Lumbini PDO	13	212.80	1274.04	4188.10	11844.80	3440	329.05
8	Karnali PO	14	93.10	634.90	3066.79	8057.20	1933	113.66
9	Sudurpaschim PO	29	238.60	810.37	4746.32	16183.05	3203	203.37
	Total	**211**	**2999.95**	**8145.22**	**53131.32**	**156790.13**	**48625**	**4538.18**

KOSHI PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Anarmani	Ghailadubba	24	24	33/11	√		
2	Belbari	Birat Chowk	6/8 + 16.6 + 24	48.6	33/11	√		
3		Letang	6/8	8	33/11		√	
4	Bhadrapur	Chandragadhi	16 + 24	40	33/11	√		
5		Baniyani	6/8	8	33/11	√		
6	Bhojpur	Panitanki	6/8	8	33/11	√		
7		Ghodetar	3	3	33/11		√	
8		Pyauli	3	3	33/11		√	
9	Biratnagar	Tanki	16.6 + 24+24	64.6	33/11	√		
10		Rani	24+24+8	56	33/11	√		
11		Katahari	24+6/8	32	33/11	√		
12		Multifuel	24	24	33/11	√		
13	Damak	Damak	24 + 6/8	32	33/11	√		
14		Bolo Chowk	16.6	16.6	33/11	√		
15	Dhankuta	Bhedetar	1.5	1.5	33/11	√		
16		Dhankuta	3 + 8	11	33/11	√		
17		Hile	8	8	33/11	√		
18		Rajarani	8	8	33/11		√	
19	Dharan	Dharan	6/8 + 6/8 + 16.6	32.6	33/11	√		

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
20	Dhulabari	Lalpani	6/8 + 16.6	24.6	33/11	√		
21		Budhabare			33/11			√
22	Diktel	Buipa	8	8	33/11	√		
23		Bagedhunga	3	3	33/11	√		
24		Baksila	3	3	33/11		√	
25	Duhabi	-			33/11			
26	Gauradaha	Juropani	6/8	8	33/11	√		
27	Illam	Fikkal	6/8	8	33/11	√		
28		Danabari			33/11			√
29		Chisapani	3	3	33/11	√		
30		Tilkaini	6/8	8	33/11	√		
31	Inaruwa	Inaruwa	24 + 16.6	40.6	33/11	√		
32	Itahari	Khanar	16.6+16.6+24	57.2	33/11	√		
33								
34	Khandbari	Tirtire	6/8	8	33/11	√		
35		Tumlingtar	6/8	8	33/11	√		
36		Chichila	6/8	8	33/11			√
37	Okhaldhunga	Okhaldhunga	1.5 + 3	4.5	33/11	√		
38		Sunkoshi-9	3	3	33/12			√
39		Chhijidimba	3	3	33/13			√
40	Panchathar	Phidim	3	3	33/11	√		
41		Tumbewa	6/8	8	33/11		√	
42		Phalelung			33/11			√
43	Rangeli	Rangeli	6/8 +24	32	33/11	√		
44	Solukhumbu	-			33/11			
45	Taplejung	Hiti	6/8	8	33/11	√		
46		Sinam	6/8	8	33/11	√		
47	Terhathum	Jirikhimti	6/8	8	33/11	√		
48		Basantapur S/S	6/8	8	33/11	√		
49		Aathrai	6/8	8	33/11		√	
50	Udayapur	Jaljale	12.5 + 12.5	25	33/11	√		
49		Taraghari	6/8	8	33/11	√		
50	Urlabari	Urlabari	6/8 + 16.6	24.6	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder (km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type	Remarks
1	Anarmani	Anarmani-Ghailadubba 33 kV	7	432	ACSR (Dog) Twinned	
2	Belbari	33 kV Belbari Feeder	22.13	367	Twinned ACSR Dog Conductor	
3		33 kV Keraun to Letang feeder	27	0	Wolf conductor but not in operation	
4	Bhadrapur	Anarmani to Chandragadi	12.2	330 A	ACSR(Dog)	
5		Chandragadi to Baniyani	17.72	85 A	ACSR(Dog)	
6	Bhojpur	33 kV Hile,Leguwa to Panitanki	44.529	225	ACSR(Dog)	Used for 11kV Line
7		33 kV Tumlingtar to Leguwa	48.249		ACSR(Dog)	
8		33 kV Hile,Pakhribash to Ghodetar	68.89		ACSR(Dog)	
9	Biratnagar	33 KV Biratnagar-1	26	405	Wolf	
10		33 KV Biratnagar-2	26	276	Wolf	
11		33 KV Biratnagar-3	7	539	Bear	
12		33 KV Biratnagar-Industrial	10	337	Bear÷Dog	
13		33 KV Multifuel-1	6	200	wolf	
14		33 KV Katahari	28.9	300	Dog, XLPE	
15	Damak	Damak Feeder	5.29		ACSR(Dog) Twinned	
16		Pachgachi Feeder	22		ACSR(Dog) Half Twinned	
17	Dhankuta	Dharan-Dhankuta-Hile-Tute	68.21	92	ACSR, XLPE (Rabbit , Dog)	
18	Dharan	Duhabi-Dharan	31.1	466	HTLS Silvassa + DOG	
19	Dhulabari	Ilam Feeder	14.15	346	ACSR (WOLF)	
20	Diktel	Buipa SS-Jaljale	69	199A	ACSR(Dog)	
21		Buipa SS-Okhaldhunga	33.2	142A	ACSR(Dog)	
22		Buipa SS-Rawa	37	50A	ACSR(Dog)	
23		Bagedhunga SS-Rasuwa	8	13A	ACSR(Dog)	
24	Duhabi	Duhabi Industrial feeder	6.9	529	ACSR(DOG Twin)	NEA
25		Premier Steel	2.5	351	ACSR(Wolf Twin)	Private (Dedicated)
26		Multifuel-2(Swastik Rolling)	2	330	ACSR(Wolf)	NEA
27		Pasupati Iron and Steel	4.5	320	ACSR(Panther)	Private (Dedicated)
28	Gauradaha	Damak Feeder	16	132	ACSR (Dog)	
29	ILAM	Anarmani S/S - Ilam S/S	31.32	No Load	ACSR(Dog)	
30		Fikkal S/S - Tilkaini S/S	17.90	54	ACSR(Dog)	
31		Tilkaini S/S- Godak S/S	4.15	98	ACSR(Dog)	
32		Tilkaini S/S - Chisapani S/S	48.82	4	ACSR(Dog)	
33	Inaruwa	Bhokraha- Inaruwa	2.736	329	Dog twin	
34		Duhabi-Inaruwa	30		Dog	

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder (km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type	Remarks
35	Itahari	New Khanar	10.1	310	ACSR (Dog)	Single circuit
36		Old Khanar	9.08	452	HTLS (0.05 sq.inch)	Single circuit
37		Bhokraha-khanar-1, Bhokraha-khanar-2	26.2	451,477	ACSR Wolf	Double circuit
38						
39		33 KV Incommer from Baneshwar Grid SS to 33/11 KV Tirtire Substation	3.9	114	ACSR(Dog)	
40		33 KV Incommer from Tumlingtar Grid Substation to 33/11KV Tirtire Substation	0.2	45	ACSR(Dog)	
	Khandbari	33 kV Incommer from Dhankuta	42			
41		33 KV Outgoing Feeder for Arun III HPP Construction power line/Ckt1	48	19	ACSR(Dog)	Not used now
42		33 KV Outgoing Feeder for Arun III HPP Construction power line/Ckt2	48	19	ACSR(Dog)	
43	Okhaldhunga	Buipa to okhaldhunga	33.2	173	ACSR(Dog)	
44		Okhaldhung to Tingla	41.6	274	ACSR(Dog)	
45	Panchthar	Thapatar to Phidim	3	30A	ACSR(Dog)	
46		Ilam to Phidim	55		ACSR(Dog)	
47		Thapatar to Tumbewa(Dhukure)	55		ACSR(Dog)	
48	Rangeli	33 KV Rani-Rangeli feeder	27	277	ACSR(Dog)	
49	Solukhumbu	Okhaldhunga	4.5	112	ACSR (Dog)	
50		Salleri (used for Dudhkundh hydropower)	4.5	210	ACSR (Dog)	
51	Taplejung DC	Taplejung	81.5	30	ACSR (Dog)	
52		Sinam	22	16.5	ACSR (Dog)	
53	Terhathum	220 KV Basantapur feeder	1.226	148	ACSR(Dog)	
54		Jirikhimti feeder	16	47	ACSR(Dog)	
55	Udayapur	33 KV Jaljale feeder	23.54	180	ACSR(Panther)	
56		33 KV Taraghari feeder	28.17	103	ACSR(Dog)	
57		33 KV Taraghari to Dudhauli	12.35	40	ACSR(Dog)	
58	Urlabari	Padajungi Urlabari	15	276	ACSR (Dog)	

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Anarmani	Bazar	15	301	ACSR Dog
		Garamani	88.2	251	ACSR Dog
		Charali	45	287	ACSR Dog
		Surunga	30.2	297	ACSR Dog
		Sanischare	106.517	307	ACSR Dog
		Dhulabari	24.1	246	ACSR Dog
		Goldhap	3	105	XLPE Covered
		Kankai	152	242	ACSR Dog
		Rajgadh	75	269	XLPE Covered
		Khudunabari	10	132	ACSR Dog
		Audhyogik	4	117	ACSR Dog
		Charpane	1	153	ACSR Dog
		Durgapur	3.68	149	ACSR Dog
2	Belbari	Belbari	34.5	228	ACSR(dog/rabbit)
		Haraicha	96	169	ACSR(dog/rabbit)
		Kerabari	94.3	160	ACSR(dog/rabbit/weasel)
		salakpur	26.05	162	Covered conductor (100 Sq.mm)/ACSR (Dog)
		Letang	164.55	130	ACSR(dog/rabbit)
		Gachhiya	60	265	ACSR(dog/rabbit)
		Laxmi marg	64.65	155	Covered conductor (100 Sq.mm)/ACSR (Dog)
3	Bhadrapur	Chandragadi	41.7	220	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Airport	2.9	31	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch
		Bhadrapur	44.82	288	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Jalthal	46.8	262	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Haldibari	47.05	190	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		750 KV	8.1	78	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Baniyani	33.25	81	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Kechana	103.4	110	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Prithivi Nagar	48.3	99	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel
		Singimari	5.5	23	Dog , Rabbit,XLPECovered Conductor 0.1 Sq Inch,Weasel

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
4	Bhojpur	Bazar	66.06	50	ACSR (Rabbit)
		Chakheba	40	10	ACSR (Rabbit, Weasel)
		Gumba (Aale Bokhim)	60.450	15	ACSR (Rabbit, Weasel)
		Kafle	191.594	40	ACSR (Rabbit, Weasel)
		Hile-Pakhribash	61.935	25	ACSR (Rabbit, Weasel)
		Belhara	52.64	15	ACSR (Rabbit, Weasel)
		Bhojpur from Tumlingtar to Shadananda	61.989	25	ACSR (Rabbit, Weasel)
5	Biratnagar	Bhrikuti	12	239	ACSR(DOG)
		Nahar	12	201	ACSR(DOG)
		jhorahat	27	107	ACSR(DOG)
		Bargachhi	13.198	196	ACSR(DOG)
		Tanki	10.535	195	ACSR(DOG)
		kanchanbari	13	230	ACSR(DOG)
		Jamungachhi	17.795	291	ACSR(DOG)
		Mainroad	11	190	ACSR(DOG)
		Rani	10.626	170	ACSR(DOG)
		Biratnagar	13	201	ACSR(DOG)
		Budhanagar	16	110	ACSR(DOG/Rabbit/weasel)
		Bypass	13	120	ACSR(DOG)
		Hatkhola	14	209	ACSR(DOG)
		BJM	12	156	ACSR(DOG)
		Roadcess	11.566	223	ACSR(DOG)
		BanglaMukhi feeder	10	80	ACSR(DOG)
		hatimuda	11	255	ACSR(DOG)
		Tanki-02	3	184	ACSR(DOG)
		Basbari	24.42	151	ACSR(DOG)
		Ring Road	6.8	80	ACSR(DOG)
		Thalaha	40.66	245	ACSR(DOG)
		singiya	8.135	121	ACSR(DOG)
		Milan	8.71	66	ACSR(DOG)
		Judi	11	151	ACSR(DOG)
		Bange	6.8	136	ACSR(DOG)
		Biratnagar-1	30	321	ACSR(DOG)
		Biratnagar-3	24.105	102	ACSR(DOG)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
6	Damak	Dhukurpani Feeder	40	174	ACSR(Dog, Rabbit, Weasel)
		Tarabari Feeder	15	122	ACSR(Dog, Rabbit, Weasel)
		Telecom Feeder	13.5	140	ACSR(Dog, Rabbit, Weasel)
		Setumari Feeder	19.25	75	ACSR(Dog, Rabbit, Weasel)
		New Feeder	10	184	ACSR(Dog, Rabbit, Weasel)
		Urlabari Feeder		279	ACSR(Dog, Rabbit, Weasel)
		Padajugi Feeder	38.7	250	ACSR(Dog, Rabbit, Weasel)
		Pashuhaat Feeder	15	270	ACSR(Dog, Rabbit, Weasel)
		Kerakha Feeder	61	306	ACSR(Dog, Rabbit, Weasel)
		Shivgunj Feeder	48.279	110	ACSR(Dog, Rabbit, Weasel)
		Mai Feeder	40	118	ACSR(Dog, Rabbit, Weasel)
		Kunjibari Feeder	3.6	61	ACSR(Dog, Rabbit, Weasel)
		Gaurigunj Feeder		54	ACSR(Dog, Rabbit, Weasel)
7	Dhankuta	Triveni	32.318	28	ACSR (Rabbit, Weasel)
		Nishan	29.965	22	ACSR (Rabbit, Weasel)
		Kaagate	10.110	31	ACSR (Rabbit, Weasel)
		Belhara	91.963	29	ACSR (Rabbit, Weasel)
		Jeetpur	81.194	47	ACSR (Rabbit, Weasel)
		Pakhribas	71.327	26	ACSR (Rabbit, Weasel)
		Hile	4.341	11	ACSR (Rabbit, Weasel)
		Chungwang	8.435	18	ACSR (Rabbit, Weasel)
		Rajarani	105.608	52	ACSR (Weasel)
		Ahaale	51.853	16	ACSR (Weasel)
		Bhedetar	0.100	5	ACSR (Weasel)
8	Dharan	Dharan	25.1	289	ACSR (Dog,Covered Dog, Rabbit, Covered Rabbit, Weasel)
		Local Chatara	39.997	311	ACSR (Dog,Covered Dog, Rabbit, Covered Rabbit, Weasel)
		Panmara	29.154	169	ACSR (Dog,Covered Dog, Rabbit, Covered Rabbit, Weasel)
		Khanepani	4.5	92	Dog,Covered, ACSR (Dog)
		BPKIHS	0.95	68	ACSR (Dog, Rabbit)
		British	0.06	74	ACSR (Rabbit)
		Industrial	2	80	ACSR (Dog)
		Railway	32.4	161	ACSR (Dog,Covered Dog, Rabbit, Covered Rabbit, Weasel)
		Bhanu	13.746	304	ACSR (Dog,Covered Dog, Rabbit, Covered Rabbit, Weasel)
		Bagarkot	7.121	135	XLPE (Dog)
		Mangalbare	2.6	**	XLPE (Dog)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
9	Dhulabari	Kakarvitta	43.45	292	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
		Bazar	11.29	245	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
		Dhaijan	39.25	238	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
		Dhulabari	56.98	284	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
		Budhabare	33.89	214	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
		Bahundangi	78.33	265	ACSR(Dog, Rabbit, Weasel),XLPE(50, 100 Sq. mm)
10	Diktel	Buipa SS-Diktel	174.91	48	ACSR(Rabbit),XLPE 50 Sq.mm AAAC Covered Conductor
		Buipa SS-Haleshi	135.89	28	ACSR(Rabbit)
		Buipa SS-Rajapani	56.195	18	ACSR(Rabbit)
		Buipa SS-Pokhari	132	27	ACSR(Rabbit)
		Bagedhunga SS-Simpani	186.2	30	ACSR(Rabbit)
		Bagedhunga SS-Ramche	85	10	ACSR(Rabbit)
11	Duhabi	Tarahara-1	8.33	252	ACSR (DOG Twin & RABBIT)
		Tarahara-2	16.9	285	ACSR (DOG Twin & RABBIT)
		Biratnagar 2	25.61	364	ACSR (DOG Twin & RABBIT)
		Duhabi	29.09	252	ACSR (DOG,RABBIT,WEASEL)
		Inaruwa	140.66	307	ACSR (DOG,RABBIT,WEASEL)
12	ILAM	Ilam	22	87	ACSR (Rabbit, Covered Conductor)
		Sakhejung	120.98	46	ACSR (Rabbit,Weasel)
		Sandakpur	93	21	ACSR (Rabbit,Weasel, Covered)
		Mangalbare	82.68	44	ACSR (Rabbit,Weasel)
		Kanyam	90.07	88	ACSR (Dog,Rabbit)
		Laxmipur	62	50	ACSR (Rabbit,Covered Conductor)
		Pashupatinagar	38.09	46	ACSR (Dog,Rabbit)
		Danabari	106.11	65	ACSR (Rabbit)
		Maijogmai	66	25	ACSR (Rabbit,Weasel)
		Gajurmukhi	35.8	10	ACSR (Rabbit,Weasel)
13	Inaruwa	Inaruwa	97.62	254	XLPE, Dog, Rabbit, Weasel
		Industrial	18.04	216	XLPE, Dog, Rabbit, Weasel
		Laukahi	38.7	63	Dog, Rabbit, Weasel
		Jhumka	31.78	285	Dog, Rabbit, Weasel
		Gramin	128.36	316	XLPE, Dog, Rabbit, Weasel
		Bhokraha Narsingh	46.58	215	XLPE, Dog, Rabbit, Weasel
		Koshi	27.6	85	XLPE, Dog, Rabbit, Weasel

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
14	Itahari	Gaisar	29.63	261	ACSR(Dog,Rabbit)
		N.T.C	15.56	258	ACSR(Dog, Rabbit,Weasel)
		Itahari	26.56	192	ACSR(Dog, Rabbit, Weasel)
		Tarahara	18.25	205	XLPE 100 sq.mm ,ACSR(Dog,Rabbit)
		Pakali	69.77	195	ACSR(Dog,Rabbit)
		Old industrial	11.43	315	ACSR(0.07 sq.inch)+ACSR(Dog)
		Labipur Industrial	18.85	223	ACSR(Dog)
		Khanar	34.26	271	ACSR(0.07 sq.inch)+ACSR(Dog)
		Chakraghatti (from kushaha ss)	19.12	101	ACSR 100 sq.mm XLPE Cover Conductor
		Prakshpur(from kushaha ss)	10.9	34	ACSR 100 sq.mm XLPE Cover Conductor
		New jhumka feeder	12.23	55	ACSR 100 sq.mm XLPE Cover Conductor +ACSR(Dog)
		Jhumka (from inaruwa ss)	71.31	139	ACSR(Dog, Rabbit,Weasel)
		Beltar(from udaypur ss)	14.65	162	ACSR(Rabbit, Weasel)
15	Khandbari	New Khandbari Feeder	42	69	ACSR(Rabbit)
		Makalu Feeder	247.295	49	ACSR(Rabbit) and ACSR (Weasel)
		Chainpur Feeder	85.45	14	ACSR (Weasel)
		Madi Feeder	50	12	ACSR (Weasel)
		Mudhe Feeder	62.28	16	ACSR (Weasel)
		Old Khandbari Feeder	67	18	ACSR (Weasel)
16	Okhaldhunga	Pokhre	163.284	45	ACSR(Weasel),Covered Coductor
		Okhaldhunga	198.781	62	ACSR(Weasel), Covered Coductor
		Rumjatar	35	22	ACSR(Weasel), Covered Coductor
		Okhaldhunga (Tapping from Sangutar ramechap S/S)	102	12	ACSR(Weasel),Covered Coductor
17	Panchthar	Phidim	20	56	ACSR(Rabbit)
		Pouwa	70.102	18	ACSR(Rabbit)
		Phalelung	65.372	14	ACSR(Rabbit)
		Yasok	133.856	58	ACSR(Rabbit)
		Ektin	68.521	45	ACSR(Rabbit)
		Kabeli B	85.914	13	ACSR(Rabbit)
		Shingapur	28.11	12	ACSR(Rabbit)
		Ilam Interbrance of Sakhejung	66.03	54	ACSR(Rabbit)
18	Rangeli	Rangeli Feeder	24.96	80	ACSR(Dog,Weasel)
		Kanepokhari Feeder	115.377	205	ACSR (Dog,Rabbit,Weasel)
		Karshiya Feeder	89.114	205	ACSR (Dog,Rabbit,Weasel)
		Sijuwa Feeder	90.614	186	ACSR (Dog,Rabbit,Weasel)
		Amardah Feeder	58.983	148	ACSR (Dog,Rabbit,Weasel)
		Hoklabari Feeder	32.25	55	ACSR (Dog,Rabbit,Weasel)
		Dainiya Feeder	61.360	108	ACSR (Dog,Rabbit)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
19	Solukhumbu	Ramite Bhadaure	54.82	60	ACSR(Weasel, Rabbit, Dog)
		Belidada	82.36	8	ACSR (Weasel, Rabbit, Dog)
		Dodhkoshi	137.53	38	ACSR(Weasel, Rabbit, Dog)
20	Taplejung	Bazzar Feeder	6.5	62	ACSR(Rabbit) & 100 sqmm XLPE
		Purano Phungling Feeder	140.5	15	ACSR(Rabbit) & 55 sqmm XLPE
		Dovan Feeder	125	24	ACSR(Rabbit) & 100 sqmm XLPE
		Feeder no 1 Tellok	25	5	ACSR(Rabbit)
		Feeder no 2 Sablakhu	14	48	ACSR(Rabbit)
		Thechambu Interbaranch	20	2.6	ACSR(Rabbit)
21	Terhathum	Basantapur	32	47	Rabbit (Weasel)
		Sukrabare	90	36	Rabbit (Weasel)
		Myanglung	46.036	43	Rabbit (Weasel)
		Morahang	27	12	Rabbit (Weasel)
		Phedap/Aathrai	218.3	53	Rabbit (Weasel)
		Lasune	37	7	Rabbit (Weasel)
22	Udayapur	Gaighat	32.4	245	ACSR (Rabbit, Weasel)
		Jogidah	82.35	136	ACSR (Dog, Rabbit, Weasel,XLPE)
		Jaljale	173.45	45	ACSR (Rabbit, Weasel)
		Chuhade	170.32	49	ACSR (Rabbit, Weasel)
		Udayapur Cement	0.96	245	ACSR (Dog)
		New Katari	30.25	85	ACSR(Rabbit, Weasel,XLPE)
		Risku	135.62	58	ACSR(Dog, Rabbit, Weasel)
		Sindhuli	36.52	42	ACSR(Dog, Rabbit, Weasel)
		Beltar	245.82	216	ACSR (Rabbit, Weasel, XLPE)
		Old Katari	145.62	52	ACSR (Rabbit, Weasel, XLPE)
23	Gauradaha	New Gauriganj	73	109	ACSR(Dog, Rabbit, Weasel)
		Maharani	60	120	ACSR(Dog, Rabbit, Weasel)
		Gauradaha	65	115	ACSR(Dog, Rabbit, Weasel)
		Baigundhura	30	40	ACSR(Dog, Rabbit, Weasel)
		Gaurigan j(Bolo Chowk ss)	63		
		Kunjibari (Bolo Chowk ss)	50	25	ACSR(Dog, Rabbit, Weasel)
24	Urlabari	Urlabari Feeder	83.45	261	ACSR(DOG, Rabbit, Weasel)
		Pathari Feeder	87.49	367	ACSR(DOG, Rabbit, Weasel)
		Itahara Feeder	42.82	282	ACSR(DOG, Rabbit, Weasel)
		Tandi Feeder	51.01	105	ACSR(DOG, Rabbit, Weasel)

MADHESH PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Kanchanpur	Bhardah	8	8	33/11	√		
		Balardah	8	8	33/11	√		
2	Rajbiraj	Rajbiraj	8, 16	24	33/11	√		
		Rupani	8	8	33/11	√		
		Dakneshwari	8		33/11			√
3	Bodebarsain	Bodebarsain	6/8, 16.6	24	33/11	√		
		Pansera	6/8		33/11		√	
4	Lahan	Bhagwanpur	16	16	33/11	√		
5	Siraha	Bishnupur	2*6/8	16	33/11	√		
6	Mirchaiya	Mirchaiya	16/24	24	33/11	√		
7	Yadukuha	Yadukuha	20/24	24	33/11	√		
8	Janakpur	Mujeliya	16.6, 16.6, 24	57.2	33/11	√		
		Lohana	16.6		33/11		√	
		Nagrain	16.6		33/11		√	
9	Dhanushadham	Dhanushadham	16.6	16.6	33/11	√		
		Birendrabazar	16.6	16.6	33/11	√		
10	Sakhuwa	Haraiya	16		33/11		√	
11	Gaushala	Aurhi	16,8	24	33/11	√		
		Khairmara	8	3	33/11	√		
		Bardibas	8	8	33/11	√		
12	Jaleshwor	Jaleshwor	8,24	32	33/11	√		
		Paraul	8	8	33/11	√		
		Manara	8		33/11		√	
13	Barahathawa	Barahathawa	6/8, 16.6	24	33/11	√		
14	Malangwa	Malangwa	8,24	32	33/11	√		
		Haripurwa	16.6	16.6	33/11	√		
		Gadahiya	16.6	16.6	33/11	√		
15	Lalbandi	Haripur	8,8,8	24	33/11	√		
16	Chandranigahpur	–			33/11			
17	Maulapur	Maulapur	6/8, 16.6	24.6	33/11	√		
18	Gaur	Gaur	6/8, 20/24	32	33/11	√		
		Harsaha	24	24	33/11	√		
19	Simraungadh	Simraungadh	24	24	33/11	√		
20	Kalaiya	Kalaiya	6/8, 20/24	32	33/11	√		
21	Birgunj	Chapkaiya	8, 24	32	33/11	√		

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
22	Pokharia	Pokhariya	20/24	24	33/11	√		
		Sedhawa	6/8	8	33/11	√		
		Dokaila	6/8		33/11		√	
23	Simara	Nijgad	8	8	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Kanchanpur	Rupani-Balardah	34.00	198A	ACSR(Dog)
		Rajbiraj-Bhardah	18.00	80A	ACSR(Dog)
		Kataiya-Bhardah	16.68	0A	ACSR(Dog)
		Balardah-Bhardah	10.80	54 A	ACSR(Dog)
2	Rajbiraj	Rupni	0.1	76	UG Cable
		Rupni 1	12	317	ACSR (DOG)
		Rupni 2	12	92	ACSR (DOG)
		Khosi Pump nahar	3.6	40	ACSR (DOG)
		Bhardaha	20	90	ACSR (DOG)
3	Bodebarsain	Rupani-Bodebarsain	27	199	ACSR(Dog)
4	Lahan	Bhagwanpur	25	50	Dog
5	Siraha	Bishnupur	32	258	Wolf
		Jaynagar	23	0	ACSR (DOG)
		Maruti	17.3	120	ACSR (DOG)
6	Mirchaiya	Bishnupur	7	299	ACSR (DOG)
7	Yadukuha	Mujeliya-Yadukuha	22	161	ACSR (DOG)
8	Janakpur	Mujeliya	45	45	HTLS DOG
9	Dhanushadham	Dhanushadham	28	220	ACSR (Dog)
		Yadukuha	14.3	Not charged yet	ACSR (Wolf, Dog)
10	Sakhuwa	Cosmos Dedicated line	10	85	ACSR(Dog)
		Janakpur 33 kV (for Everest paper mill - Trunk)	14		ACSR(Dog)
11	Gaushala	Aaurhi	30	227	ACSR(Dog)
		Khairmara	35	8.4	ACSR(Dog)
		Bardibas	28	125	ACSR(Dog)
12	Jaleshwor	Janakpur	30.77	386	ACSR(Dog)
		India, Sursand	14.39	Not Used	ACSR(Dog)
13	Barahathawa	Barahathawa	33	150	.ACSR(Dog)
14	Malangwa	Malangwa	28.5	380	WOLF,DOG ACSR
		Gadahiya 3	22.5	105	ACSR(Dog)

15	Lalbandi	Nawalpur to Haripur	7.5	196	ACSR (Dog),(Wolf)
		Nawalpur to Bagmati	16	105	ACSR (Dog)
16	Chandranigahpur	–	–	–	–
17	Maulapur	Harsaha	20	233	ACSR (Dog)
18	Gaur	Gaur	42.16	415	AAAC
		Harsaha	18	417	ACSR (Dog)
19	Simraungadh	Piluwa-Nijgadh-Kalaiya-Simraungadh	58	243	UG (400SQ mm) and ACSR(Dog)
20	Kalaiya	Birgunj Kalaiya	12	352	ACSR(Wolf/Dog)
21	Birgunj	Chhapkaiya	5	165	ACSR Dog
22	Pokharia	Birgunj to Pokhariya	18.17	258	ACSR(Wolf)
		Pokhariya to Sedhwa	19	140	ACSR(Dog)
23	Simara	Chapur Nijgad	21	200	DOG

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Kanchanpur	Kanchanpur Feeder (Balardah S/S)	25	143.28A	ACSR(Dog, Weasel, Rabbit)
		Mahauli Feeder	56	122.56A	ACSR(Dog, Weasel, Rabbit)
		Fattepur Feeder	5.305	37.48A	ACSR(Dog, Weasel, Rabbit)
		Hanumannagar Feeder	13.67	77.88A	ACSR(Dog, Weasel, Rabbit)
		Kanchanpur Feeder (Bhardah S/S)	44.57	237.12A	ACSR(Dog, Weasel, Rabbit)
2	Rajbiraj	Bazar 1	5.5	170	ACSR(Dog)
		Bazar 2	17.2	143	ACSR(Dog) &. ACSR(Rabbit)
		Bazar 3	9	40	ACSR(Dog) &. ACSR(Rabbit)
		East Gramin	78	144	ACSR(Dog) &. ACSR(Rabbit)
		South Gramin	53	164	ACSR(Dog) &. ACSR(Rabbit)
		West Gramin	70	122	ACSR(Dog) &. ACSR(Rabbit)
		Raipur	90	179	ACSR(Dog) &. ACSR(Rabbit)
		Hospital	0.786	9.1	ACSR(Dog)
		Kalyanpur	32	94	ACSR(Dog) &. ACSR(Rabbit)
		Rupni Raipur	12.16	177	ACSR(Dog) &. ACSR(Rabbit)
		Rupni East	6.62	68	ACSR(Dog) &. ACSR(Rabbit)
		Industrial	6.7	0	ACSR(Dog),
		Hanumannagar	18	140	ACSR(Dog) &. ACSR(Rabbit)
3	Bodebarsaien	Bodebarsain	66	145	DOG, RABIT, WEASEL
		Manraja	75	105	DOG, RABIT, WEASEL
		Balanbihul	35	87	DOG, RABIT, WEASEL
		Mahuwabelhi	105	245	DOG, RABIT, WEASEL

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
4	Lahan	11 KV Lahan	50	220	Dog, Rabbit, Weasel
		11 KV Balan	15	150	Dog, Rabbit
		11 KV Thadi	50	225	Dog, Rabbit, Weasel
		11 KV Bastipur	80	195	Dog, Rabbit, Weasel
		11 KV Sukhipur	95	325	Dog, Rabbit, Weasel
		11 KV Jahadi	80	250	Dog, Rabbit, Weasel
		11 KV Sitapur	75	325	Dog, Rabbit, Weasel
		11 KV Maheshbari	25	50	Weasel
		11 KV Bhagwanpur	15		Not Charged Yet
		11 KV Inarwa	10		Not Charged Yet
		11 KV Nawarajpur	30		Not Charged Yet
5	Siraha	11 KV Siraha	77.491	244 A	ACSR(Dog,Rabbit,Weseal),100 Sq Mm XLPE
		11 KV Bishnupur	76.067	148 A	ACSR(Dog,Rabbit,Weseal),100 Sq Mm XLPE
		11 KV Kalyanpur	75.847	197 A	ACSR(Dog,Rabbit,Weseal),100 Sq Mm XLPE
		11 KV Aurhi	39.963	183 A	ACSR(Dog,Rabbit,Weseal),100 Sq Mm XLPE
6	Mirchaiya	Mirchaiya	28.378	204.7	Dog,Rabbit,Weseal
		Bandipur	47.504	114.1	Dog,Rabbit,Weseal
		Kalyanpur	31.327	97.74	Dog,Rabbit,Weseal
		Golbazar	107.599	278.1	Dog,Rabbit,Weseal
7	Yadukuha	Bhatiyan	24.262	76	ACSR(Dog/Rabbit/Weasel)
		Kamala	29.584	77	ACSR(Dog/Rabbit/Weasel)
		Dhabauli	47.35	176	ACSR(Dog/Rabbit/Weasel)
		Tinkauriya	25.733	78	ACSR(Dog/Rabbit/Weasel)
		Sonigama	32.556	77	ACSR(Dog/Rabbit/Weasel)
8	Janakpur	CITY-1	12.12	285	ACSR DOG/RABBIT
		CITY-2	12.24	260	ACSR DOG/RABBIT
		CITY-3	27.535	250	ACSR DOG/RABBIT/WEASEL
		CITY-4	25.008	240	ACSR DOG/RABBIT/WEASEL
		DEDICATED	10.11	180	ACSR DOG
		INDUSTRIAL	14.688	170	ACSR DOG/RABBIT
		MAHENDRANAGAR	38.923	160	ACSR DOG/RABBIT/WEASEL
		RING	60.966	200	ACSR DOG/RABBIT/WEASEL
		PIDARI	69.044	260	ACSR DOG/RABBIT/WEASEL
9	Dhanushadham	Dhanushadham	47.1695	117	ACSR(Dog, Rabbit, Weasel)
		Sabaila	26.788	124	ACSR(Dog, Rabbit, Weasel)
		Kisanpur	36.229	146	ACSR(Dog, Rabbit, Weasel)
		Hanspur	27.091	109	ACSR(Dog, Rabbit, Weasel)
		Godar	43	84	ACSR(Dog, Rabbit, Weasel)
		Birendrabazar	48.8	135	ACSR(Dog, Rabbit, Weasel)
		Bharatpur	12.863	38	ACSR(Dog, Rabbit, Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
10	Sakhuwa	Mahendranagar 11 KV	183.1	350	ACSR(Dog, Rabbit, Weasel)
		Lalgadh 11 KV	75.742	310	ACSR(Dog, Rabbit,Weasel)
		Godar 11 KV	66.61	115	ACSR(Dog, Rabbit,Weasel)
		Industrial 11 KV	18.9	150	ACSR(Dog, Rabbit)
		Dhalkebar 11 KV	5	52	ACSR(Dog, Rabbit)
11	Gaushala	Gaushala Feeder	72.792	135	ACSR-RABBIT/DOG
		Bharatpur Feeder	98.51	175	ACSR-RABBIT/DOG
		Aurahi Feeder	15.5	160	ACSR-RABBIT/DOG
		Bhangha /Sitapur Feeder	47.25	156	ACSR-RABBIT/DOG
		Sonamai Feeder	55.22	205	ACSR-RABBIT/DOG
		Lalgadh Feeder	70	200	ACSR-RABBIT/DOG
		Kisannagar Feeder	18.7	105	ACSR-RABBIT/DOG
		Hathilet Feeder	23.2	107	ACSR-RABBIT/DOG
		Bazar Feeder	19.64	18.7	ACSR-RABBIT/DOG
		School Tole Feeder	3.16	6.5	ACSR-RABBIT/DOG
12	Jaleshwor	Ring	10.5	7	ACSR(RABBIT/WEASEL)
		City	16	110	ACSR(RABBIT/WEASEL)
		Eakdara	63	45	ACSR(RABBIT/WEASEL)
		Katti	55	201	ACSR(RABBIT/WEASEL)
		Pipra	60	89	ACSR(RABBIT/WEASEL)
		Matihani	61	158	ACSR(RABBIT/WEASEL)
		Chakwa	32	62	ACSR(RABBIT/WEASEL)
		Balwa	22	110	ACSR(RABBIT/WEASEL)
		Paraul	58	97	ACSR(RABBIT/WEASEL)
		Loharpatti	43.5	106	ACSR(RABBIT/WEASEL)
13	Barahathawa	Barahathawa	61.1645	230	ACSR(Dogg,Rabbit)
		Heerapur	81.305	180	ACSR(Dogg,Rabbit)
		Solti	22	86	ACSR(Dogg,Rabbit)
14	Malangwa	Malangwa Feeder	19.25	218	ACSR(Rabbit,Weasel Dog)
		Chameli Mai Feeder	73.17	272	ACSR(Rabbit,Weasel Dog)
		Gramin Feeder	58.75	300 above	ACSR(Rabbit,Weasel Dog)
		Kaudena Feeder	91	185	ACSR(Rabbit,Weasel Dog)
		Godaita Feeder	72	279	ACSR(Rabbit,Weasel Dog)
		Balra Feeder	105	58	ACSR(Rabbit,Weasel Dog)
		Khairwa	68	108	ACSR(Rabbit,Weasel Dog)
		Birta	5.5	18	ACSR(Dog)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
15	Lalbandi	Lalbandi feeder	121	280	ACSR(Weasel),ACSR(Dog), ACSR (Rabbit), Xlpe 100sq.mm, Xlpe 50 sq.mm
		Harion feeder	120	310	ACSR(Weasel), ACSR(Dog), ACSR(Rabbit), Xlpe 100sq.mm, Xlpe 50 sq.mm
		Pachgachiya Graming feeder	55	190	ACSR(Weasel),ACSR(Dog), ACSR(Rabbit), Xlpe 100sq.mm, Xlpe 50 sq.mm
		Pachgachiya Industrial feeder	33	170	ACSR(Dog),Xlpe 100sq.mm
		Brathwa/Gair Feeder	25	120	ACSR(Weasel),ACSR(Dog)
		Purnbash feeder	16	30	ACSR(Weasel),ACSR(Dog)
		Haripu feeder	10	20	ACSR(Dog)
16	Chandranigahpur	Chapur North Feeder	56.36	230A	ACSR(Dog,Rabbit,Weasel)
		Chapur South Feeder	120	248A	ACSR(Dog,Rabbit,)
		Chapur Feeder	15	254A	eg. ACSR(Dog)
		Janglesaiya Feeder	49.4	191A	ACSR(Dog,Rabbit,Weasel)
		Sakhuwa Feeder	15	110A	ACSR(Dog,Rabbit)
17	Maulapur	Maulapur	18.5	129	ACSR(Dog,Rabbit,)
		Fatuwa Bijayapur	22.82	150	ACSR(Dog,Rabbit,)
		Katahariya	31.78	163	ACSR(Dog,Rabbit,)
		Baudhimai	20	177	ACSR(Dog,Rabbit,)
		Dewahi Gohani	23.5	95	ACSR(Dog,Rabbit,)
18	Gaur	Gaur	16.4	139	Dog, Rabbit, Wesel
		Purenwa	31.473	123	Dog, Rabbit, Wesel
		Bahuarwa	98.707	317	Dog, Rabbit, Wesel
		Bairiya	76.569	204	Dog, Rabbit
		Bankul	120	87	Dog, Rabbit
		Harsaha	190	300	Dog, Rabbit
19	Simraungadh	Simraungadh	31	224	15km Weasel, 8Km Rabbit, 8Km Dog
		Batra	30	198	16Km Weasel, 10Km Rabbit, 4Km Dog
		Pacharauta	32	252	12Km Weasel, 6Km Rabbit, 14 Km Dog
		Baragadhi	22	154	7Km Weasel, 11Km Rabbit,4Km Dog
20	Kalaiya	Nagarpalika	26.943	312	ACSR(Dog)
		Gunjbhawanipur	92	245	ACSR(Dog)
		Bariyarpur	62	250	ACSR(Dog)
		Sheetalpur	86	318	ACSR(Rabbit)
		Inarwasira	21.899	110	ACSR(Rabbit)
		Rampur	12	160	ACSR(Dog)
		Krishi	75	300	ACSR(Rabbit)
		Badharwa	53	155	ACSR(Rabbit)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
21	Birgunj	Birgunj 1	17	335	Dog, Rabbit, Weasel,conductor
		Birgunj 2	23	366	Bare Copper, Dog, Rabbit, Weasel
		Birgunj 3	1	8	Dog
		Birgunj 4	27.07	377	Dog, Rabbit, Weasel
		Birgunj 5	15.23	361	Bare Copper, Dog, Rabbit, covered conductor
		Birgunj 6	21.52	225	Dog, Rabbit, Weasel, covered conductor
		Radhemai	18.5	295	Dog, Rabbit, Weasel
		Parsauni	17.60	310	Dog, Rabbit
		Bindabashni	16.09	345	Dog, Rabbit, Weasel
		Jagarnathpur	6.56	360	Dog, Rabbit, Weasel
		Narayani	4.28	180	eg. Dog
		Himal	17.87	250	Dog, Rabbit
		Chorni	4.89	280	Dog
		Gramin	25.49	325	Dog, Rabbit, Weasel, covered conductor
		Simara	9.65	350	Dog
		Birgunj Ind.	15.08	360	Dog
		Dabur Nepal	1.43	225	HT ABC, Dog
		Gandak	16.17	345	Dog, Rabbit , HT ABC
		Nitanpur	16.62	350	Dog, Rabbit, Weasel
		Krishi	17.12	330	Dog, Rabbit, Weasel
		Parwanipur	9.67	360	Dog
		Jagdamba	9.92	335	Dog, Weasel
		Bhaluhi	16.53	190	Dog, Rabbit , HT ABC
		Hospital	4	160	Dog, Rabbit, Weasel, HT ABC
		Chhapkaiyan	7	100	Dog, Rabbit, Weasel
		Balirampur	13	140	Dog, Rabbit, Weasel, covered conductor
		Birtamai	3	65	Dog
22	Pokharia	Pokhariya	63.5	148	ACSR(Dog+Rabbit+Weasel)
		Langadi	68	116	ACSR(Dog+Rabbit+Weasel)
		Jankitole	45	138	ACSR(Dog+Rabbit+Weasel)
		Bahudarmai	76	162	ACSR(Dog+Rabbit+Weasel)
		Thori	44	84	ACSR(Rabbit+Weasel)
		Latomai	16.2	36	ACSR(Rabbit+Weasel)
		Janki	22.99	88	ACSR(Rabbit+Weasel)
		Feeder no.6(Barwa Branch)	26	70	ACSR(Rabbit+Weasel)
		Bindabasini (Bahuarwa batha branch)	14.42	58	ACSR(Rabbit+Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
23	Simara	Narbasti	11.54	180	Rabbit/DOG
		Hulas	22.1	130	Rabbit/DOG
		Dumbarwana	35.31	152	Rabbit/DOG
		Jitpur	3.7	189	Rabbit/DOG
		Ramban	71.36	160	Rabbit/DOG
		Musarnimai	6.82	170	Rabbit/DOG
		Patlaiya 1	17	81	Rabbit/DOG
		Patlaiya 2	13	65	Rabbit/DOG
		Piluwa	9.6	40	Rabbit/Weasel
		Amlekhgunj	23.37	101	Weasel
		Oil nigam	1.3	33	Weasel
		pole plant	0.3	80	Weasel
		Nijgad 1	42	88	Rabbit/ Weasel
		Nijgad 2	9.7	65	Rabbit/ Weasel
		Nijgad 3	21	105	Rabbit/ Weasel
		Simara	7	352	DOG/Rabbit
		Parwanipur	17	365	DOG/Rabbit

BAGMATI PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Nuwakot DC	Chaughada Sub-station	8	8	33/11	√		
		Ratmate Sub-station	8, 8	16	33/11	√		
		Bhalche Sub-station	8	8	33/11	√		
		Ranipauwa Sub-station	8		33/11		√	
2	Dhading DC	Dhading Beshi	8	8	33/11	√		
		Jahare	16.6	16.6	33/11	√		
		Naubise	8	16	33/11	√		
		Salyantar	8	8	33/11	√		
		Baseri	3		33/11		√	
		Jahrlang	8		33/11		√	
3	Kavre DC	Katunjebenshi	6/8 MVA		33/11		√	
		Mahabharat Gokule	3 MVA		33/11		√	
4	Ramechhap DC	Manthali	8	8	33/11	√		
		Sanghutar	8	8	33/11	√		
		Doramba	3	3	33/11	√		
		Rakathum	16	16	33/11	√		
		Bamti Bhandar	3	3	33/11	√		
5	Rasuwa DC	Chilime	1*12.5		66/11	√		
		Grang	1*8		66/11	√		
		Kalikasthan	1*6.8	8	33/11	√		
		Trishuli	1*10		66/11	√		
6	Dolakha DC	Makaibari	3,8	11	33/11	√		
		Jiri	3	3	33/11	√		
		Gongar (New)			33/11			√
		Tamakoshi (Gongar)	3	3	33/11	√		
		Singati	1.5	1.5	33/11	√		
		New Khimti	8	8	33/11	√		
		Namdu (New)	8	8	33/11	√		
7	Jorpati DC	Mulapni Switching			11/11’			
8	Sindhupalchowk DC	Sunkoshi	6/8	8	33/11	√		
		Kubinde	6/8	8	33/11	√		
		Mude	6/8	8	33/11	√		
9	Lagankhel DC	Malta	6/8	8	33/11	√		
		Unnichaur	6/8	8	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Nuwakot DC	Devighat-Chaughada	19	41	ACSR(Dog)
		Devighat-Ratmate	11.6	168	ACSR(Dog)
		Bhalche-Shantibazar	12	2	100 Sq. mm Covered Conductor
3	Dhading Distribution Center	Ratmate S/S to Tarukaghat	4	-	ACSR (Dog)
		Tarukaghat to Galchhi	8.5	-	ACSR (Dog)
		Galchhi to Jahare S/S	10.5	83	ACSR (Dog)
		Galchhi to Naubise S/S	28	Not in Service	ACSR (Dog)
		Tarukaghat to Dhadingbeshi S/S	17	191	ACSR (Dog)
		Dhadingbeshi S/S to Salyantar S/S	21	134	ACSR (Dog)
		Jahare S/S to Thopal PH	10	IPP (1.4 MW); Currently not in operation	ACSR (Dog)
		Matatirtha S/S to Naubise S/S	12	43	ACSR (Wolf)
		Richet PH to Salyantar S/S	12	IPP (5 MW+4.6 MW)	ACSR (Dog)
		Aankhu PH to Dhadingbeshi S/S	12	IPP (8.4 MW)	ACSR (Dog)
4	Kavre DC	Khopasi	18	18.68 Amp	Rabbit
5	Ramechhap DC	Manthali	33.00 Km	10027.20 KVA	XLPE(100), ACSR(DOG), ACSR(RABBIT)
		Sanghutar	25.20 Km	643.20 KVA	ACSR(DOG), XLPE(100)
		Doramba	24.10 Km	1791.00 KVA	ACSR(DOG)
		Rakathum	34.02 Km	0.00 KVA	ACSR(DOG)
		Bamti Bhandar	11.22 Km	963.00 KVA	ACSR(DOG), XLPE(100)
6	Rasuwa DC	Kalika	7.5	20.54	ACSR(Dog)
7	Dolakha DC	Makaibari-Mude-Lamosaghu	26.768		DOG
		Tamakoshi-Namdu-Jiri	29.675		DOG
		Tamakosi-New khimti- Kirne	19.56		DOG
		Makaibari-Sigati-Gongar	42.933		DOG
		Makaibari-Charnawati IPP	6.9		DOG
		Jiri - Chake-Garjyang S/s	13.73		DOG
		Jiri- Bojini IPP	6.482		DOG
8	Sindhupalchowk DC	Lamosanghu-Kubhinde	17.0	55 A	DOG
		Lamosanghu-Mude	15.0	60 A	DOG
9	Lagankhel DC	Unichaur-Malta	10		bear
		Khanikhola-Malta	7		bear

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Nuwakot DC	Nuwakot	52.79	71	ACSR(Rabbit, Weasel), 50 &100 SQ MM Covered
		Tupche	42.39	19	ACSR(Rabbit, Weasel), 50 &100 SQ MM Covered
		Betrawati	19.93	50	ACSR(Rabbit, Weasel)
		Trishuli, Raising	14.91	93	ACSR(Rabbit, Weasel)
		Battar	15.65	132	ACSR(Rabbit, Weasel), 50 &100 SQ MM Covered
		Colony Headgate	2.5	9	ACSR(Rabbit, Weasel)
		Deurali Dhading	88.16	65	ACSR(Rabbit, Weasel), 50 &100 SQ MM Covered
		Chainpur	51.46	42	ACSR(Rabbit, Weasel)
		Ranipauwa	62.31	70	ACSR(Rabbit, Weasel), 50 &100 SQ MM Covered
		Colony	1.53	14	ACSR(Rabbit, Weasel)
		Belkot	24.39	31	ACSR(Rabbit, Weasel), 50 & 100 SQ MM Covered
		Chahare	80.48	72	ACSR(Rabbit, Weasel), 50 & 100 SQ MM Covered
		Kharinitar	47.61	76	ACSR(Rabbit, Weasel), 50 & 100 SQ MM Covered
		Chaughada	2.1	4	100 SQ MM Covered
		Kolputar	8.81	63	ACSR(Rabbit, Weasel)
		Mahadevphat	7.1	32	ACSR(Rabbit, Weasel)
		Duipipal	52.52	23	ACSR(Rabbit, Weasel)
		Satbise	44.567	20	ACSR(Rabbit, Weasel), 50 & 100 SQ MM Covered
		Samundratar	24.85	15	ACSR(Rabbit, Weasel)
2	Bhakatapur DC	Nagarkot	59.5	180	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		BID 1	3.5	80	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		BID 2	0.5	20	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Katunje	18.2	175	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Nalinchowk	65.13	235	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Byasi	12.49	219	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Brick	4.6	117	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Suryabinayak	22.25	230	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Sipadol	21.2	130	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
		Chagunarayan	29.1	110	ACSR(Dog, Rabit, Weasel) and XLPE Covered Conductor
3	Kirtipur DC	Kirtipur	27.98	216	100 Sq. mm / 50 sq mm Overhead Cover conducotr, ACSR (Dog and rabbit)
		Ropeway	21.36	198	100 Sq. mm / 50 sq mm Overhead Cover conducotr ACSR (DOG)
		Machhegaun	23.11	169	100 Sq. mm / 50 sq mm Overhead Cover conducotr, ACSR (Rabbit)
		Pharping	59.37	218	100 Sq. mm / 50 sq mm Overhead Cover conducotr, ACSR (Rabbit and weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
4	Melamchi DC	Melamchi	171.67	No Substation/ No Ammeter. Melamchi Feeder run from Jorpati DCS and Panchkhal DCS Feeder	ACSR(Dog, Rabbit, Weasel), HT XLPE Covered (55 sq mm)
		Tipeni	99.06		ACSR(Dog, Rabbit, Weasel), HT XLPE Covered (55 sq mm)
		Helambhu	85.76		ACSR(Rabbit, Weasel), HT XLPE Covered (55 sq mm)
		Nawalpur Jyamire	58.14		ACSR(Rabbit, Weasel), HT XLPE Covered (55 sq mm)
5	Dhading DC	Sunaulabazaar	136.42	48	ACSR (Rabbit)
		Bazaar	4	88	100 sq.mm. XLPE Covered Conductor
		Sankosh/ Muralibhanjyang	86.42	27	100 sq.mm. XLPE Covered Conductor/ ACSR (Rabbit)
		Gajuri	121.26	175	ACSR (Rabbit)
		Adamghat	45.36	80	ACSR (Rabbit)
		Pida	24.6	13	ACSR (Rabbit)
		Aarughat	149.23	43	ACSR (Rabbit)
		Budhathum	141	44	ACSR (Rabbit)
		Chainpur	48	53	ACSR (Rabbit)
		Trishuli S/S Feeder No-8, Dhuwakot	26.15	76	ACSR (Rabbit)
		Trishuli S/S Feeder No-8, Kimtang	43.32		ACSR (Weasel)
		Trishuli S/S Feeder No-8, Jharlang	62.76		ACSR (Weasel)
		Thakre	51.13	162	ACSR (Rabbit)
		Naubise	66.31	151	ACSR (Rabbit)
6	Kavre DC	Bhakunde	271	144	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Dhulikhel	22	122	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Sanga	47	281	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Dhulikhel Hospital	2	38	240 sq.mm UG/0.05 sq.inch ACSR
		Khopasi	91	172	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Dhungkharka	73	57	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Panauti	65	209	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Hospital	19	104	100 sq.mm XLPE Covered/0.1/0.05/0.03 sq.inch ACSR
		Nala	47	189	100 sq.mm XLPE Covered/0.05/0.03 sq.inch ACSR
		28 Kilo	7	80	100 sq.mm XLPE Covered/0.05/0.03 sq.inch ACSR
7	Pulchwok DC	Khokana	24.83	298	ACSR(DOG and XLPE)
		Saibu	11.82	278	ACSR(DOG and XLPE)
		Patan Pulchowk	12.43	169	ACSR(DOG and XLPE)
		Teku Pulchowk	12.7	179	ACSR(DOG and XLPE)
		Kupondole	5.34	169	ACSR(DOG and XLPE)
		Sanepa	9.6	125	ACSR(DOG and XLPE)
		Patan	3.59	140	ACSR(DOG and XLPE)
		Bagmati	4.12	120	ACSR(DOG and XLPE)
		Ring road	10.3	218	ACSR(DOG and XLPE)
		Aswin	2.52	0	XLPE

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
	Pulchwok DC	Ncell	2.34	40	300 SQ.mm XLPE
		Ncell 2	5	28	XLPE
		Bainsepati	14.412	180	ACSR(DOG and XLPE)
		UN Park	2.94	180	ACSR(DOG and XLPE)
		Kritipur-Pulchowk feeder newely constructed from chobar	1.2	0	XLPE
8	Ramechhap DC	Manthali gau	108.63	32.5	ACSR (Rabbit,weasel)some of 55mm2 XLPE Cover Conductor
		Manthali Bazzar	3.5	40.3	ACSR (Rabbit),4 Core Aluminium Armoured Cables,55mm2 XLPE
		Khadbari	4.58	25.36	55mm2 XLPE Cover Conductor
		Pakarbas	91.5	70.5	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Ramechhap	90.2	41.6	ACSR (Rabbit,weasel)55mm2 XLPE Cover Conductor
		Bhalukhop	25.56	29.6	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Sanghutar	26	14.02	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Dhobi	21.5	7.05	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Sirise	64	9.91	ACSR (Dog),55mm2 XLPE Cover Conductor
		Galpa	87.77	84.09	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Tokarpur	64.4	46.89	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Daduwa	34.95	25.6	ACSR (Rabbit,weasel),55mm2 XLPE Cover Conductor
		Gumdel	18.9	45.9	ACSR (Rabbit),55mm2 XLPE Cover Conductor
		Bamti	15.7	8.6	ACSR (Rabbit),55mm2 XLPE Cover Conductor
		Preeti	7.05	6.5	ACSR (Rabbit),55mm2 XLPE Cover Conductor
		Rakathum	17.8	4.5	ACSR (Rabbit),55mm2 XLPE Cover Conductor
		shivalaya/those	24.65	36.74	ACSR (Rabbit),55mm2 XLPE Cover Conductor
9	Rasuwa DC	Dhunche	61.1	11.1	ACSR(Rabbit) & Cover Conductor 100 Sq.mm
		Rasuwagadhi	20	12.3	ACSR (Dog) & Cover Conductor 100 Sq.mm
		Sanjen	34.2	12.9	ACSR (Dog)
		Syapru	43.12	6.2	ACSR (Dog, Weasel, Rabbit) & Cover Conductor 55 Sq.mm
		216 Dam	8	70	ACSR (Dog)
		216 Powerhouse	18	90	ACSR (Dog)
		Kalika	15	68.2	ACSR (Rabbit) & Cover Conductor 55 Sq.mm
		Uttargaya	3	6.3	ACSR (Rabbit) & Cover Conductor 55 Sq.mm
		Naukunda	30	18.34	ACSR (Weasel)
		Trishuli 4	20.11	78	ACSR (Weasel)
10	Balaju DC	BID I	0.92	292	XLPE(300sq.mm) Underground
		BID II	0.92	336	XLPE(300sq.mm) Underground
		BID III	0.92	0	XLPE(300sq.mm) Underground
		Dharmasthali	26.038	332	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Teku 2/(Dhungedhara)	8.88	327	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Teku 1(Goldhunga)	29.801	258	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Jarankhu	29.33	274	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Bishnumati	10.71	260	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Nagarjun	4.567	214	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)
		Manamaiju	15.555	280	100/120 sq.mm Covered Conductor and ACSR(Dog, Rabbit, Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
11	Dolakha DC	Pakhar	72.26	72.26	0.05 sq inch ACSR, 55 sqmm XLPE, 100sqmm XLPE
		Charikot	43.17	43.17	
		Tamakoshi	18.23	18.23	
		Boch	28.58	28.58	
		kalinchowk kupri	13.22	13.22	
		Kirne	140.07	140.07	
		Sigati	68.66	68.66	
		Sunkhani	48.23	48.23	
		Babre	44.44	44.44	
		Jiri	6.96	6.96	
		Mainapokhari	97.06	97.06	
		Namdu (Extension)	1.69	13.87	
		Those Ramechhap	39.04	39.04	
		Jagat	12.18	12.18	
		Lamobagar	10.49	10.49	
12	Kuleshwor DC	Matatirtha	23.97	349	XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Satungal	6	112	XLPE Power Cable, ACSR(Rabbit), ACSR(Weasel)
		Balambu	9.5	303	XLPE Power Cable, ACSR(Rabbit), ACSR(Weasel)
		Thankot	16	322	XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Echangu	18.102		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Bafal	14.087		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Hasantar	17.28		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Kalanki	11.9		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Kalimati	10.65		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Khadkagawn	10.67		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Sitapaila	37.781		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Chamati	12.32		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
		Ringman	15.45		XLPE Power Cable, ACSR(Dog), ACSR(Rabbit), ACSR(Weasel)
13	Jorpati DC	DANCHI	31.056	200	
		GOTHATAR	9.91	198	
		SANKHU	80.098	225.1	
		SUN CITY	4.09	185	
		MULPANI	10.914	233	
14	Panchkhal DC	Melamchi	120	228.50	0.01 ACSR DOG Conductor
		Panchkhal	74	188.40	100 sq.mm Cover Conductor, 0.05 ACSR Conductor
		Palanchowk	110	178.00	0.05 ACSR Conductor, 0.03 ACSR Conductor
		Temal	102	110.70	0.05 ACSR Conductor, 0.03 ACSR Conductor
15	Thimi DC	BALKUMARI	18.00	210	ACSR(Dog, Rabbit, Weasel,),XLPE
		SALLAGHARI	26	301	ACSR(Dog, Rabbit, Weasel),XLPE
		TB	12.5	255	ACSR(Dog, Rabbit, Weasel,),XLPE
		NIKOSHERA	13	279	ACSR(Dog, Rabbit,,)XLPE
		THIMI 3	19	298	XLPE,Dog
		THIMI 1 PATAN	16.5	330	ACSR(Panther,Dog,),XLPE

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
16	Sindhupalchowk DC	Lamosanghu	10	10 A	ACSR(Weasel, Rabbit)
		Khadichaur	15	20 A	ACSR(Weasel, Rabbit)
		Tekanpur	40.5	80 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Bandeu	81	115 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Barabishe	151	95 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Pakhar	30.8	15 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Mude	15	15 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Lisankhu	73	10 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Dadapakhar(New)	0.9		XLPE Covered 100 sq mm
		Tauthali	8	6 A	XLPE Covered 100 sq mm
		Chautara	20	60 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Syaule	36.7	10 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Sangachowk	56	110 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
		Jalbire	137.3	35 A	ACSR(Weasel, Rabbit), Covered (50, 100 sq mm)
17	Maharajgunj DC	Khanepani	10	300	Dog+100 sqmm Covered conductor
		Dhapashi	7	240	Dog+100 sqmm Covered conductor
		Chabahil Ring main 2	6	270	Panther
		Chabahil Ring main 1	6	270	Panther
		Balaju Ring main 1	5.5	250	Panther
		Balaju Ring main 2	5.5	250	Panther
		Baluwatar	2	90	Dog+Weasel
		Budanilkantha	0.1	5	Dog
		Gongabu	8	300	Dog+100 sqmm Covered conductor
		Hospital	3	120	UG+Dog
		Panipokhari	4	170	
		Lazimpat	5	190	
		Basundhara	9	280	UG+Dog+100sqmm Covered conductor
		Mandikatar	8	240	UG+Dog+100sqmm Covered conductor
		Chunikhel	10	180	UG+Dog+100sqmm Covered conductor
		Tarebhir	12	190	UG+Dog+100sqmm Covered conductor
		Ganeshsthan	5	200	UG+Dog+100sqmm Covered conductor
		Shivapuri	6	130	UG+Dog+100sqmm Covered conductor
		Hepali	9	210	UG+Dog+100sqmm Covered conductor
		Tokha	14	230	UG+Dog+100sqmm Covered conductor
		Dhungedhara	3	120	UG+Dog+100sqmm Covered conductor
		Sukedhara	11	240	UG+Dog+100sqmm Covered conductor
		Om	8	255	UG+Dog+100sqmm Covered conductor
18	Lagankhel DC	Imadol-3	18.45	314	100 sq mm xlpe, Rabbit, Weasel
		Luvu-2	34.49	218	100 sq mm xlpe, Rabbit, Weasel
		Ring Road	13.49	250	100 sq mm xlpe, Rabbit, Weasel
		Chapagaun	54.84	304	100 sq mm xlpe, Rabbit, Weasel
		Jawalkhel	5.03	248	100 sq mm xlpe, Rabbit, Weasel
		Saibu	13.37	130	100 sq mm xlpe, Rabbit, Weasel

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
	Lagankhel DC	Radio Nepal	13.87	305	100 sq mm xlpe, Rabbit, Weasel
		Godwari	41.83	306	100 sq mm xlpe, Rabbit, Weasel
		Local Patan	2.35	288	100 sq mm xlpe, Rabbit, Weasel
		Khumltar	16.42	316	100 sq mm xlpe, Rabbit, Weasel
		Harisidhhi	11.42	230	100 sq mm xlpe, Rabbit, Weasel
		Khokhana	28.38	270	100 sq mm xlpe, Rabbit, Weasel
		Patan Hospital	0.35	40	100 sq mm xlpe, Rabbit, Weasel
		PID	0.63	190	100 sq mm xlpe, Rabbit, Weasel
		NTC	1.7	32	100 sq mm xlpe, Rabbit, Weasel
		Satdobato	12.16	230	100 sq mm xlpe, Rabbit, Weasel
		Hattiban	7.09	230	100 sq mm xlpe, Rabbit, Weasel
		Manbhawan	2	285	100 sq mm xlpe, Rabbit, Weasel
		Imadol-2	11.4	254	100 sq mm xlpe, Rabbit, Weasel
		Lubhu	12.39	276	100 sq mm xlpe, Rabbit, Weasel
		Chayasal	7.95	69	100 sq mm xlpe, Rabbit, Weasel
19	Ratnapark DC	Anamnagar	8.3	186	XLPE+COVERED+0.1 ACSR
		Ghattekulo	7.6	191	XLPE+HT ABC +0.1 ACSR
		Kamalpokhari	5.3	193	XLPE+0.1 ACSR
		Kalikasthan	8.9	192	XLPE+COVERED+0.1 ACSR
		Putalisadak	9	262	XLPE+COVERED+0.1 ACSR
		Bhrikutimandap	7.2	289	XLPE+COVERED+0.1 ACSR
		Singhadurbar - 2	6.2	150	XLPE+Covered
		Singhadurbar - 1	0.8	5	XLPE
		K-2(1)	1	367	XLPE+Wolf
		K-2(2)	1	321	XLPE+Wolf
		Dillibazar	6.25	273	COVERED+0.1 ACSR
		GIDC	0.05	21	XLPE
		Kingsway	6	202	XLPE+COVERED
		Kamaladi	6.6	194	XLPE+COVERED+0.1 ACSR
		NEA	0.07	28	XLPE
		Singhdurbar	3.2	22	XLPE+COVERED
		Ason	7.25	153	XLPE+COVERED
		Mahaboudhha	6.5	302	XLPE+COVERED
		Bir	6.8	100	XLPE+COVERED
		Bagbazar	4.4	144	XLPE+COVERED
		Babarmahal	5.2	132	XLPE+COVERED
		Samakhusi	8.2	342	XLPE+COVERED+0.1 ACSR
		Pani pokhari	4.65	181	XLPE+0.1 ACSR
		Gairidhara	9.23	308	XLPE+0.1 ACSR
		King's Way	8.8	384	XLPE+COVERED
		lazimpat	4.5	296	XLPE+COVERED
		Thamel	9.5	212	XLPE+COVERED

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
	Ratnapark DC	Sohrakhutte	5.4	102	XLPE+COVERED
		Kathmandu,K 2-2 (T)	1.5	282	XLPE
		Royal-Palace,K2-1	0.35	81	XLPE
		Sachibalaya	5.6	57	XLPE+HT ABC
		Srisadan	2.5	3	XLPE
		K 2-Rajdarbar	1.25	42	XLPE
		Kalimati	7.15	236	XLPE+COVERED
		Bhimsensthan	7.5	139	XLPE+HT ABC
		Kshetrapati	9.5	257	XLPE+COVERED+0.1 ACSR
		Mint(Teku Hospital)	3.5	20	XLPE
		Tripureshwor	8.25	140	XLPE+COVERED
		Sundhara -1	2.35	175	XLPE
		Sundhara -2	2.35	175	XLPE
		Thapathali -1	1.56	251	XLPE
		Thapathali -2	1.56	204	XLPE
		Thapathali	6.25	95	XLPE+0.1 ACSR
		Teku	3.5	109	XLPE+0.1 ACSR
		Tripureswor	4.28	105	XLPE+COVERED
		Khichapokhari	4.65	86	XLPE+COVERED
		Newroad	4.5	163	XLPE+COVERED
		Bhotebahal	5.37	95	XLPE+COVERED
		Nayabazar	7.8	190	XLPE+COVERED+0.1 ACSR
		Tangal	9.4	67	COVERED+0.05 ACSR
		Om Hospital	3.2	318	COVERED
		Hadigau	9.3	395	XLPE+COVERED
		Kalopul	5.2	396	XLPE+COVERED+0.1 ACSR
20	Baneshwor DC	Koteshwor	6.38	212	XLPE/ACSR(Rabbit, Dog)/UG Cable
		Baneshwor	5.52	230	XLPE/ACSR(Rabbit, Dog)/UG cable
		Battisputli	4.8	289	XLPE/ACSR(Rabbit, Dog)/UG cable
		Old Airport	2.97	225	XLPE /ACSR(Rabbit, weasel, Dog)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
	Baneshwor DC	Imadol 1	8.74	280	XLPE/ACSR(Rabbit, Dog),UG Cable
		I.C. Hall	0.51	54	XLPE/ UG Cable
		Shankhmul	6.66	274	XLPE/ACSR(Rabbit, Dog)/ UG cable
		Dhobikhola	8.1	278	XLPE/ACSR(Rabbit, Dog)/ UG cable
		Bagmati	4.1	243	XLPE/ACSR(Rabbit, Dog)/ SUSCA / UG cable
		New Airport	4.02	244	XLPE/ACSR(Rabbit, Dog)/ SUSCA
		Gothatar	9.57	285	XLPE/ACSR(Rabbit, Dog)/ UG cable
		KmC	7.87	246	XLPE/ACSR(Rabbit, Dog)/UG cable
		Jorpati	18.17	314	XLPE/ACSR(Rabbit, Dog)/UG cable
		Battisputli	4.67	280	XLPE/ACSR(Rabbit, Dog)/UG cable
		Pashupati	6.16	279	XLPE/ACSR(Rabbit, Dog)/UG cable
		Dhobikhola	2.8	234	XLPE/ACSR(Rabbit, Dog)/UG cable
		Danchi	3.76	294	XLPE/ACSR(Rabbit, Dog)/UG cable
		Airport Dedicated	2.89	233	XLPE/ACSR(Rabbit, Dog)/UG cable
		Naxal	4.03	200	XLPE/ACSR(Rabbit, Dog)/UG cable
		Kapan	9.9	201	ACSR(Rabbit, Dog)/XLPE/UG cable
		Sankhu	11.87	218	ACSR(Rabbit, Dog)/XLPE/UG cable
		Naya Basti	8	283	ACSR(Rabbit, Dog)/XLPE/UG cable
		Mahankal	4.16	257	XLPE /ACSR(Rabbit, Dog)/UG cable
		Sundrijal	19.92	265	ACSR(Rabbit, Dog)/ XLPE/ Copper
		Baudha	4.8	250	XLPE /ACSR(Rabbit, weasel, Dog)/UG cable
		Ramhiti	18.23	318	XLPE /ACSR(Rabbit, weasel, Dog)/UG cable

BAGMATI PROVINCE DIVISION OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Chanauli Distribution Center	Chanauli	16.6 & 8.0	24.6	33/11	√		
		Madi	3 & 8	11	33/11	√		
2	Palung Distribution Center	Dam Substation	Switching station		11			
		Markhu Substation	Using Switching Station,6/8 MVA	8	33/11	√		
		Phedi Substation	Using Switching Station,6/8 MVA	8	33/11	√		
3	Bharatpur DCs	Devnagar S/S	14.4/20/24	24	33/11	√		
		Bharatpur DC S/S			33/11			√
		Shivaghat S/S			33/11			√
4	Sindhuli DCs	33/11 kV Sindhuli S/S.	6/8	8	33/11	√		
		33/11 kV Viman S/S.	6/8	8	33/11	√		
		33/11 kV Dudhauli S/S.	6/8	8	33/11	√		
		33/11 kV Kapilakot S/S.	6/8	8	33/11	√		
		33/11 kV Bara (Khurkot) S/S	3	3	33/11	√		
		33/11 kV Lampantar S/S	3		33/11		√	
5	Ratnanagar Tandi DCs	Parsa 33/11 kV S/S	16.6					
		Parsa 33/11 kV S/S	24	40.6	33/11	√		
	Total							
6	**Hetauda**	Manahari 33kV S/S	16/6	16.6	33/11	√		
		Hatisudhe 33 kV S/S	6/8	8	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder (km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Chanauli	Bharatpur to Chanauli	23.2	303	ACSR(Dog)
		Chanauli to Madi	28.8	54	ACSR(Dog) & UG(185sqmm) cable
2	Palung				
3	Bharatput DCs	Devnagar Feeder (Devnagar SS)	13	168	ACSR(Dog)
4	Sindhuli DCs	33 kV Sindhuli Feeder at Dhalkebar	45	207 A	ACSR(Dog)
		33 kV Katari Feeder at Dudhauli	11.26	58 A	ACSR(Dog)
		33 kV Ramechap Feeder at Sindhuli	61	143 A	ACSR(Dog)
		33 kV Marin Feeder at Sindhuli	28	24 A	ACSR(Dog)
		33 kV Tapping at Khurkot to Rakathum	33.5	Load Not Connected	ACSR(Dog)
5	Ratnanagar Tandi DCs	Bharatpur Parsa 33 kV Feeder	20.5	350 A	ACSR DOG
		Bhandara-Parsa 33 kV Feeder	8	-	Under Construction (ACSR DOG)
6	Hetauda	Kamane - Shivam - Hatisudhe	32.74	291	ACSR (Wolf 150mm2)
		manhari hardi	25.5	118	ACSR (Dog 100mm2)
		Riddisiddi	3.44	196	ACSR (Wolf 150mm2)

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Chanauli DC	Jagatpur	54.5	260	ACSR(Dog,Rabbit,Weasel)
		Rampur	29	213	ACSR(Dog,Rabbit,Weasel)
		Narayani	39.1	185	ACSR(Dog,Rabbit,Weasel)
		Meghauli	61.7	245	ACSR(Dog,Rabbit,Weasel)
		Shukranagar	42.5	110	ACSR(Dog,Rabbit,Weasel)
		Bijaynagar	37	85	ACSR(Dog,Rabbit,Weasel)
		Basantapur	55.2	78	ACSR(Dog,Rabbit,Weasel)
		Kalyanpur	49.5	86	ACSR(Dog,Rabbit,Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
2	Bharatpur DC	Audhogik 1	42	278	XLPE 100, ACSR (Dog, Rabbit)
		Bharatpur 1	44	300	XLPE 100, ACSR (Dog, Rabbit)
		Bharatpur 2	36	291	XLPE 100, ACSR (Dog, Rabbit)
		Narayangarh	27	295	XLPE 100, ACSR (Dog)
		New Feeder	21	300	XLPE 100, ACSR (Dog)
		Hospital	17	279	XLPE 100, ACSR (Dog, Rabbit)
		Bhrikuti	18	273	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Ganesthan	15	256	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Audhogik 2	20	285	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Coca-cola	5	200	XLPE 100, ACSR (Dog)
		Devghat	95	174	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Kalyanpur	14	265	XLPE 100, ACSR (Dog, Rabbit)
		Audhogik 3	42	287	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Kshetrapur	15	326	XLPE 100, ACSR (Dog)
		Rameshwor	13	143	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Hotline-B	2	63	XLPE 100, ACSR (Dog, Rabbit)
		Patihani	41	150	XLPE 100, ACSR (Dog, Rabbit)
		Fulbari	44	218	XLPE 100, ACSR (Dog, Rabbit)
		Torikhet	26	180	XLPE 100, ACSR (Dog, Rabbit)
		Resort	0	0	XLPE 100)
		Mugling Feeder	66	215	XLPE 100, ACSR (Dog, Rabbit, Weasel)
		Mugling Feeder New	2	0	XLPE 100, ACSR (Dog)
3	Sindhuli DC	Bazar	32.163	162	ACSR(Rabbit)
		Ghyanglekh	102.809	70	ACSR(Rabbit)
		Majhitar	204.762	51	ACSR(Rabbit)
		Bhirgaun Silame	20	6	Not in used
		Ranibas	87.839	115.2	ACSR(Rabbit)
		Bhiman	52.411	27.5	ACSR(Rabbit)
		Kalapbriksha	56.058	22.2	ACSR(Rabbit)
		Hariharpurgadhi	106.764	24.5	ACSR(Rabbit)
		Marin	71.874	43.2	ACSR(Rabbit)
		Sunkoshi	126.968	140.7	ACSR(Rabbit)
		Golanjor	149.572	33.18	ACSR(Rabbit)
		Gadhi	35.765	33.56	ACSR(Rabbit)
		Dudhauli	18	5	
		Bazar	28.559	102.4	ACSR(Rabbit)
		13 No.	40.92	88.32	ACSR(Rabbit)
		14 No.	61.988	61.5	ACSR(Rabbit)
4	Palung DC	Sisneri Feeder	66.31	48/12	ACSR(Rabbit, Wessel)
		Phakhel Feeder	22.74	15/06	ACSR(Rabbit, Wessel)
		Palung Feeder	176.18	102/58	ACSR(Dog,Rabbit, Wessel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
5	Ratnanagar Tandi DC	Tandi Feeder	131	235 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Sauraha Feeder	31	290 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Chainpur-1 Feeder	121	276 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Chainpur-2 Feeder	7	231 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Bhandara Feeder	129	206 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Khairehani Feeder	89	271 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		New Parsa Feeder	54	241 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Lother Feeder	39	230 A	ACSR (Dog, Weasel, Rabbit), XLPE (50 sq.mm, 100 sq.mm)
		Total	601		
6	Hetauda	New Bhutandevi	85.52	284	ACSR/XLPE (Dog, Rabbit, Weasel)
		Unilever	69.98	11	ACSR/XLPE (Dog, Rabbit, Weasel)
		manhari (manhari)	27.5	38	ACSR/XLPE (Dog, Rabbit, Weasel)
		rajaiya (manhari)	20.1	62	ACSR/XLPE (Dog, Rabbit, Weasel)
		Raksirang (manahri)	31.9	18	ACSR/XLPE (Dog, Rabbit, Weasel)
		Gramin(kamne)	324.41	148	ACSR/XLPE (Dog, Rabbit, Weasel)
		Bhaise	50.99	20	ACSR (Dog, Rabbit, Weasel)
		Bansagopal	29.78	80	ACSR (Dog, Rabbit, Weasel)
		Chaugada	45.96	316	ACSR (Dog, Rabbit, Weasel)
		Sanopokhra	13.05	60	ACSR (Dog, Rabbit, Weasel)
		HID	7.48	103	ACSR (Panther)
		Ncell	0.13	24	XLPE 3 core (150mm2)
		Padampokhari Feeder (kamane)	49.2	189	ACSR /XLPE(Dog, Rabbit, Weasel)
		Rangasaala (kamane)	19.7	244	ACSR/XLPE (Dog, Rabbit, Weasel)
		Gadhi (kamane)	40.59	92	ACSR/XLPE (Dog, Rabbit, Weasel)
		HID-1(Kamane)	4.6	286	ACSR (Wolf)
		HID-2(Kamane)	4.6	216	ACSR (Wolf)

GANDAKI PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Gorkha Distribution Center	Gorkha Substation	6/8	8	33/11	√		
2		Palungtar Substation	6/8	8	33/11	√		
3		Chipleti Substation	6/8	8	33/11	√		
4		Ghyampeshal Substation	3	3	33/11		√	
5	Pokhara	Hemja SS	8-Jun	8	33/12	√		
6	Lekhnath	Khairetar SS	6/8 MVA, 33/11 KV	8	33/11	√		
7		Ghiring SS	6/8 MVA, 33/11 KV	8	33/11	√		
8		Sindha besi SS	6/8 MVA, 33/11 KV	8	33/11	√		
9	Tanahun DC	Dumre Sub Station	16.6	16.6	33/11	√		
10		Ambu Sub Station	8 & 16.6 MVA	24.6	33/11	√		
11		Saranghat Sub Station	6/8 MVA	8	33/11	√		
12		Jaruwa Sub Station	6/8 MVA	8	33/11	√		
13	Lamjung	Udipur SS	2*6/8 MVA, 33/11 KV	8	33/11	√		
14		Thakan SS	6/8 MVA, 33/11 KV	3	33/11		Under Observation	
15		Bhorletar SS	6/8 MVA, 33/11 KV	16	33/11	√		
16	Kawasoti	Kawaswati SS 33/11	24 MVA, 33/11 KV	24	33/11	√		
17		Mukundapur SS 33/11	24 MVA, 33/11 KV	24	33/11	√		
18		Bhojhapokhari	3 MVA, 33/11 KV	3	33/11	√		
19	Syangja	Badkhola SS	6/8 MVA, 33/11 KV	8	33/11	√		
20		Mirmi ss	6/8 MVA, 33/11 KV	8	33/11	√		
21	Parbat	Kusma SS	6/8 MVA, 33/11 KV	8	33/11	√		
22		Lunkhu SS	3 MVA, 33/11 KV	3	33/11	√		
23	Baglung Distribution Center	Baglung Ramrekha	8.00	8	33/11	√		
24		Harichaur	3	3	33/11	√		

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
25	Myagdhi	Darwang SS	6/8 MVA, 33/11 KV	8	33/11		Under Observation	
26		Milanchowk SS	6/8 MVA, 33/11 KV	8	33/11	√		
27	Manang	Syarku SS	3, 33/11 KV	1.5	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Total Length, CKT-Km	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Manang	Radhi-Syarku	29.77	7A	ACSR(Dog)
2	Lamjung Distribution Center	Dalal-Udipur	73.5	177 Amp	ACSR(Wolf)
		Damauli-Bhorletar		173.2 Amp	ACSR(Dog)
		Dalal-Radhi		247 Amp	ACSR(Dog)
3	Tatopani	Mustang	42	188	ACSR(Dog)
		Beni		143	ACSR (Dog)
4	Parbat Distribution Center	Modi Kushma	93.5	182	ACSR (Dog)
		Kushma Lunkhu		69	ACSR (Dog)
		Modi Bhuka		12	ACSR (Weasel)
		Community Area		Not Available	ACSR(Dog,Rabbit,Weasel)
5	Kawasoti	Mukundapur Feeder	54.5	13.14	Wolf
		Kawasoti Feeder		13.3	Dog
		Bojhapokhari Feeder		0.252	Dog
6	Tanahu DC	Damauli-Dumre	100.19	100	ACSR(Dog)
		Dumre -Palungtar		298	ACSR(Dog)
		Markhichowk Anbu		155	ACSR(Dog)
		Markichowk- Sarangghat		45	ACSR(Dog)
		Tanahun Hydropower		50	ACSR(Dog)
		Anbu-Gorkha		99	ACSR(Dog)
7	Syangja	Badkhola	72.75	41	ACSR(Rabbit)
		Guthi-Mirmi		17	ACSR (Rabbit)
		Keware		1.5	ACSR (Rabbit, Weasel)
8	Gorkha Distribution Center	Anbukhaireni-Gorkha	81.02	100	ACSR (Dog)
		Dumre-Palungtar		256	ACSR (Dog)
		Palungtar- Chipleti		18	ACSR (Dog)
		Udipur to Palungtar		256	ACSR (Dog)
		Gorkha- Ghyampeshal 33 kV line			ACSR (Dog)

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Total Length, CKT-Km	Maximum 33kV Feeder Load of 2081/082	Conductor Type
9	Baglung Distribution Center	Kusma-Baglung	112	140	ACSR (Dog)
		Baglung-Myagdi		78	ACSR (Dog)
		Baglung-Galkot		52	ACSR (Dog)
		Modibeni Parbat - Balewa, Kushmisera		20	ACSR (Dog)
		Falewas Parbat - Binamare Sarkuwa, Arjewa		2.3	ACSR (Dog)
		Kurgha Parbat - Jaidi, Chhisti, Rangkhani		3.02	ACSR (Dog)
10	Pokhara DCS	Lahachowk S/S to Hemja S/S	39.6	68 A	ACSR(Dog)
		Modi-hemja			ACSR(Dog)
11	Myagdi	Gharap	45	172	ACSR (Dog)
		Baglung		76.3	ACSR (Dog)
12	Lekhnath	Damauli to Khairenitar	63.2	108	ACSR (Dog)
		Khairenitar to Ghiring		12.3	ACSR (Dog)
		Lekhnath to Sindhabesi		384	ACSR (Wolf)

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Manang	Chame	45	14	eg. ACSR(Rabbit)
		Dharapani	17.95	5.5	Rabbit (8.7 km) and weasel (8.23Km)
2	Lamjung	City	28	122	Dog/Rabbit
		Gramin	190	74	Dog/Rabbit/Weasel
		Bhoteodar	36	116	Dog/Rabbit/Weasel
		Ookhari	117	46	Rabbit/Weasel
		Naya Gau	77.98	48	Dog/Rabbit/Weasel
		Bazar	9	15	Rabbit/Weasel
		Pach gau	42	6	Rabbit/Weasel
		Dhusani	19	18	Rabbit/Weasel
		Hile	37	10	Rabbit/Weasel
		Rainash Feeder	86	57	Dog/Rabbit/Weasel
3	Tatopani	Mustang feeder	200.86	58	ACSR (Weasel/Rabit)
		Ghansa lete	20.15	5	ACSR (Weasel/Rabit)
		Tatopani	8.5	18	ACSR (Weasel/Rabit)
		Dana	4	13	ACSR (Weasel/Rabit)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
4	Aarughat	Arughat	139.97	33.45	eg. ACSR(Rabbit+Dog+XLPE)
5	Parbat Distribution Center	Kushma bazar	24	47	XLPE +ACSR(Dog)
		Armadi	37	28	XLPE +ACSR(Dog)
		Phalebas	25	14	XLPE +ACSR(Dog,Rabbit)
		Badgaun	5	34	XLPE +ACSR(Weasel)
		Painyu	35	22	ACSR(Rabbit)
		Bhoksing (Ranipani)	32	15	ACSR(Rabbit)
		Lunkhu (local)	5	9	ACSR(Weasel)
		Local (modi Ga.Pa)	51	45	XLPE +ACSR(Dog,Rabbit,weasel)
6	Kawasoti	Kawasoti	24	200	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Arunkhola	86	169	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Kolhuwa	46	167	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Hattikhor	22	48	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Jhyalbas	85	72	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Mukundapur	17.5	175	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Narayani	28	235	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Gaidakot	32	207	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Amarapuri	16.5	217	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Damar	25	1.5	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Industrial	10.52	84	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Pragatinagar	60	159	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Rajhar	30.7	270	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Baudikali	36.5	20	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		Maulakalika	13.5	95	ACSR Rabbit, AAAC (XLPE)
		Dumkibas	120	207	ACSR(Dog),(Weasel),(Rabbit),(AAAC XLPE)
		CG dedicated	21	80	ACSR (Dog)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
7	Tanahu DC	Damauli Feeder	45	98.00	eg. ACSR (DOG), Rabbit , Weasel
		Tharpu Feeder	48	81.00	eg. ACSR (DOG), Rabbit , Weasel
		Tanahusoor Feeder	45	68.00	eg. ACSR (DOG), Rabbit , Weasel
		Soti Feeder	56	72.00	eg. ACSR (DOG), Rabbit , Weasel
		Chabdi Feeder	49	42.00	eg. ACSR (DOG), Rabbit , Weasel
		Bandipur Feeder	24	45.00	eg. ACSR (DOG), Rabbit , Weasel
		Pokharichhap Feeder	65	87.00	eg. ACSR (DOG), Rabbit , Weasel
		Dumre Feeder	32	45.00	eg. ACSR (DOG), Rabbit , Weasel
		Gorkha Feeder		86.00	eg. ACSR (DOG), Rabbit , Weasel
		Satarsaya Feeder	45	97.00	eg. ACSR (DOG), Rabbit , Weasel
		Chimkeswori Feeder	28	12.00	eg. ACSR (DOG), Rabbit , Weasel
		Anbu Khaireni Feeder	15	162.00	eg. ACSR (DOG), Rabbit , Weasel
		Daraitar Feeder		51.00	eg. ACSR (DOG), Rabbit , Weasel
		Mugling Feeder	25	185.00	eg. ACSR (DOG), Rabbit , Weasel
		Dam Feeder	8	118.00	eg. ACSR (DOG), Rabbit , Weasel
		Power House Feeder	7	52.00	eg. ACSR (DOG), Rabbit , Weasel
		Camp Feeder	2	15.00	eg. ACSR (DOG), Rabbit , Weasel
		Chipchipe Feeder	34	22.00	eg. ACSR (DOG), Rabbit , Weasel
		Masdi Feeder	10	10.00	eg. ACSR (DOG), Rabbit , Weasel
		Saranghat Feeder	8	8.00	eg. ACSR (DOG), Rabbit , Weasel
8	Syangja	Pragatinagar	18.91	51	ACSR(Rabbit,Weasel)
		Aandhikhola	75	19	ACSR(Rabbit,Weasel)
		Setidovan	52.5	26	ACSR(Rabbit,Weasel)
		Thuladihi	70	26	ACSR(Rabbit,Weasel)
		Syangja	18	29	ACSR(Rabbit,Weasel)
		Arjunchaupari	80.5	30	ACSR(Rabbit,Weasel)
		Biruwa	105	35	ACSR(Rabbit,Weasel)
		Kaligandaki	14.04	32	ACSR(Rabbit,Weasel)
		Birgha	45	24	ACSR(Rabbit,Weasel)
		Pidikhola	27.91	22	ACSR(Rabbit,Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
9	Gorkha Distribution Center	Mahendrajyoti	122.4	71	ACSR(Dog, Rabbit, Weasel), XLPE Cover (100, 55 sqmm)
		Bunkot	56.4	114	ACSR(Dog, Rabbit, Weasel), XLPE Cover (100, 55 sqmm)
		Nayabazar	18.2	72	ACSR(Dog, Rabbit), XLPE Cover (100 sqmm)
		Chhepetar	62.4	90	ACSR(Dog, Rabbit, Weasel), XLPE Cover (100, 55 sqmm)
		Harmi	18.4	33	ACSR(Rabbit, Weasel), XLPE Cover (55 sqmm)
		Radhakrishna	44.6	41	ACSR(Dog, Rabbit, Weasel), XLPE Cover (55 sqmm)
		Bhachchek	95.6	31	ACSR(Dog, Rabbit, Weasel), XLPE Cover (55 sqmm)
		Thalajung	22.6	27	ACSR(Rabbit, Weasel), XLPE Cover (55 sqmm)
		Dumre - Gorkha	65.2	40	ACSR(Rabbit, Weasel), XLPE Cover (55 sqmm)
		Gajuri to gorkha	21.23	32	ACSR(Rabbit, Weasel
		Aabu muglin makaising	64.3	55	ACSR(Rabbit, Weasel)
		Daraitar	55.6	53	ACSR(Rabbit, Weasel)
		Satrasaya	25.93	36	ACSR(Rabbit, Weasel)
		Aarughat (Salyantar)	12	15	ACSR(Rabbit, Weasel)
10	Baglung Distribution Center	Bazar	118.9781	123	ACSR (Rabbit, Weasel), XLPE Cover
		Khathekhola	55.71	33	ACSR (Rabbit, Weasel), XLPE Cover
		Maldhunga	58.21	16	ACSR (Rabbit, Weasel), XLPE Cover
		Tarakhola	23.19	9	ACSR (Rabbit, Weasel), XLPE Cover
		Hatiya	64.66	40	ACSR (Rabbit, Weasel), XLPE Cover
		Burtibang	168.21	33	ACSR (Rabbit, Weasel), XLPE Cover
		Hugdi - Dhullu tapping from Gulmi	18	9	ACSR (Rabbit, Weasel), XLPE Cover
		Salyan - Sukhaura tapping from Gulmi	5	3.5	ACSR (Rabbit, Weasel), XLPE Cover
		Chhisti tapping from Gulmi	2	2	ACSR (Rabbit, Weasel), XLPE Cover

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
11	Pokhara	11 KV International Airport Feeder	3	28.2	Dog
		11 KV City Feeder	14	268	Dog
		11 kV Galeshor Feeder	28	306	Dog
		11 kV Tatopani Feeder	68	252	Dog, Rabbit
		11 kV PID Feeder	1	182	Dog
		11 kV Fewa Feeder	105	189	Dog, Rabbit, Weasle
		11 kV Airport Feeder	20	286	Dog, Rabbit
		11 kV Baidam Feeder	26	296	Dog, Rabbit
		11 kV Fewa Incomer	2	90	Dog, Rabbit
		11 kV Arwa Feeder	24	269	Dog, Rabbit
		11 kV Sarankot Feeder	30	279	Dog, Rabbit
		11KV Sahid Chowk Feeder	17	357	Dog
		11 kV New Road Feeder	18	284	Dog
		11KV Rambazar Feeder	12	250	Dog, Rabbit
		11KV Bijaypur Feeder	24	228	Dog
		Lahachowk	11	220	Dog, Rabbit, Weasle
		Rivan (Lamachaur)	30	277	Dog, Rabbit
		Sardi Khola	22	205	Dog, Rabbit, Weasle
		Akala	21	145	Dog, Rabbit
		Lumle	67	50	Dog, Rabbit
		Kaskikot	36	60	Dog, Rabbit
		Hemja	39	70	Dog
		Dhital	28	40	Dog, Rabbit, Weasle
12	Myagdhi	Beni Feeder	13.6	84.1	ACSR(Dog,Rabbit,Weasel), 100 sq mm XLPE
		Ratnechaur Feeder	15.5	24.3	ACSR(Dog,Rabbit,Weasel)
		Singa Tatopani Feeder	115	71.6	ACSR(Dog,Rabbit), 55 sq mm XLPE
		Dana Feeder	106.3	118.6	ACSR(Dog,Rabbit,Weasel), 55 SQ MM XLPE

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
13	Lekhnath	Khaireni	46	205	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Begnas	75	160	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Kalika	70	110	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Budibazaar	53	210	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Bhimad	178.25	115	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Dulegauda	48.3	178	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Dhorphedi	60.95	N/O	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Ramkot	115	15	ACSR(Dog,Rabbit,Weasel)
		Gorje Bhagwati	30	25	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Rising	45	47	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Ghiring	65	33	ACSR(Dog,Rabbit,Weasel),XLPE Covered Conductor
		Ncell	5	50	ACSR(Dog,Rabbit,Weasel)

LUMBINI PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Amuwa Distribution Center	33/11 KV Amuwa Substation	16	24	33/11	√		
			6/8		33/11			
2	Arghakhanchi Distribution Center	Argha S/S	3	3	33/11	√		
		Thada S/S	8	8	33/11	√		
		Durgafat S/S	3	3	33/11	√		
		Hansapur S/S	3	3	33/11	√		
3	Bardaghat Distribution Center	Bardaghat S/S (Butwal Grid)	22.5, 22.5		132/11			
4	Bhairahawa Distribution Center	Bhairahawa	2 * 16.6	57.2	33/11	√		
			24		33/11			
		Dhakdhai	16.6	24.6	33/11	√		
			8		33/11			
		Lumbini	24	27	33/11	√		
			3		33/11			
		Marchwari	8		33/11		√	
		Kanchan	8		33/11		√	
5	Butwal Distribution Center	Chauraha Substation	1 * 6/8, 1 * 24, 1 * 1	32	33/11	√		
		ShittalNagar Substation	1 * 6/8	8	33/11	√		
		Saljhandi Substation	1 * 24	24	33/11	√		
6	Gulmi Distribution Center	Birbas S/S Gulmi	1 * 6/8	8	33/11	√		
		Ridi S/S Gulmi	2	2	33/11	√		
		Bastu S/S Gulmi	1 * 1.5	1.5	33/11	√		
		Kisantari S/S Gulmi	3	3	33/11	√		
		Unayachaur S/S Gulmi	1 * 16/24		132/33/11			
7	Krishnanagar Distribution Center	33/11 kV Krishnanagar Substation	2 * 6/8	16	33/11	√		
		33/11 kV Maharajgunj Substation	2 * 6/8	16	33/11	√		

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
8	Nayamill Distribution Center	Bharauliya S/S	2 * 6/8	16	33/11	√		
		Keulani S/S	1 * 12/16, 1 * 6/8		33/11		√	
9	Palpa Distribution Center	Batase	2 * 6/8	16	33/11	√		
		Siluwa	1 * 3	3	33/11	√		
		Rupse	1 * 6/8	8	33/11	√		
10	Parasi Distribution Center	Parasi Substation	8, 8, 24	40	33/11	√		
11	Taulihawa Distribution Center	Taulihawa S/S	24	32	33/11	√		
			8		33/11			
		Jitpur S/S	24	24	33/11	√		
		Lawani S/S	8	8	33/11	√		
			3		33/11		√	
		Ghanchaura S/S	8	8	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Amuwa Distribution Center	33 KV Amuwa Feeder	12.50	235	ACSR(DOG),100 mm sq. Covered Conductor
		33 Bhairahawa New-02 Feeder	15.00	256	ACSR(DOG),100 mm sq. Covered Conductor
		33 KV Bhairahawa Old Feeder	10.00	347	ACSR(DOG),100 mm sq. Covered Conductor
		33 KV Arghakhachi Cement Feeder	3.50	264	ACSRWOLF)
2	Arghakhanchi Distribution Center	Shuv Shree Agni Cement	35.00		ACSR(DOG)
		Fudwang S/S to Birbas S/S	77.20	140	ACSR(Rabbit)
		Maulipokhara to Thulakharka	15.00	140	ACSR(Weasel)
		Mathura to Durgafat	22.00	140	ACSR(Rabbit)
		Gulmi to Mareng	14.30	15	ACSR(Rabbit,Weasel)
		Argha S/S to Hansapur	53.00	4	ACSR(Rabbit,Weasel)
		Fudwang S/S to Argha S/S	22.00	25	ACSR(Rabbit,Weasel)
		Fudwang S/S to Thada S/S	63.80	35	ACSR(Rabbit,Weasel)
		Khilji to Argha S/S	27.70	2	ACSR(Rabbit)
		Bhaladada to Ratale	2.00	0	ACSR(Rabbit)

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
3	Bardaghat Distribution Center	-	-	-	-
4	Bhairahawa Distribution Center	Bhairahawa New -1	17.73	300	ACSR(Dog)
		Bhairahawa New 2	32.38	320	
		Bhairahawa Old	28.18	320	
		Dhakdhai-1	33.91	330	
		Dhakdhai-2	33.91	330	
		Mainhaiya-Lumbini	34.47	340	
		Butwal-Mainhaiya-Lumbini	20.00	recently idle	
		Mainhiya New2	5.52	290	
		Mainhiya Old	5.52	300	
		Mainhaiya -1	10.00	280	
		Bhairahawa-India-Sez	6.40	160	
		SEZ-Dhakdhai-1	10.00	160	
		SEZ -Dhakdhai-2	10.00	idle	
		Mainhaiya -2	10.00	300	
5	Butwal Distribution Center	Yogikuti-BID	4.63	176	ACSR DOG
		Yogikuti-Butwal Chauraha	2.20	318	ACSR DOG
		Yogikuti-Butwal Chauraha-Shitalnagar	19.00	338	ACSR DOG
		Butwal-Jyamire	22.00	0	ACSR DOG
		Motipur-Saljhandi(Basgadi)	18.20	180	ACSR DOG
		Sunwal Charpala-Shitalnagar	3.10	155	ACSR DOG
6	Gulmi Distribution Center	Ridi to Birbas	26.50	95	ACSR(Dog)
		Birbas to Unayachaur	26.00	85	Dog upgraded
		Unayachaur to Bastu	19.00	23	ACSR(Rabbit)
		Gwadi	15.00	15	ACSR(Rabbit)
		Digam	9.00	9	ACSR(Rabbit)
		Baletaksar to Khairnei	13.00	8	ACSR(Rabbit)
		Charpala	13.00	15	ACSR(Rabbit)
		Simichaur	13.50	13	ACSR(Rabbit)
		Bastu-Kisantari	8.00	10	ACSR (Dog)
7	Krishnanagar Distribution Center	33 kV Krishnanagar Feeder	30.68	127	ACSR(Dog, Rabbit, Weasel)
		33 kV Maharajgunj Feeder	17.80	47	ACSR(Dog, Rabbit, Weasel)
		33 kV Industrial Feeder	11.38	141	ACSR(Dog, Rabbit, Weasel)
		33 kV Vijaya Shree Steel Feeder	3.50	355	ACSR(Panther)

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
8	Nayamill Distribution Center	Ground Water Bharauliya	11.60	340 A	ACSR(Dog)
		Panchakanya Corridor	10.00	120	ACSR(Dog)
9	Palpa	Butwal- Batase- Rupse-Siluwa	202.81	211	ACSR(Dog)
		Palpa-Gulmi	18.00	119	
		33-kV Khanepani Kaligandaki	8.50	19	
		33-kV Khaipani Bhulke			
		33-kV Syangja-Palpa	9.00	7	
		CG	8.00	123	
10	Parasi Distribution Center	Gandak Parasi Substation Feeder	25.00		Dog
		Gandak Industrial 1(Branch Line in Industrial 1 line)	29.20		Dog
		Gandak Industrial Shantichour	30.00		Dog
		Goyal 33 KV Feeder	17.00		Wolf
		Sambriddhi 33 KV Feeder	19.00		Wolf
		Laxmi 33 KV Feeder	0.50		Wolf
		Sarbottam Cement 33 KV Feeder	23.00		Dog
		Palpa Cement 33 KV Feeder	5.00		Dog
		Sunwal 132/33 KV Industrial 1 (Tender Number 15 added line)	29.50		Wolf
		Sunwal 132/33 KV Industrial 2 (Tender Number 15 added line)	28.50		Wolf
		Sahuwatikar sanda Parasi 33 kV Double circuit line	9.96		Wolf
11	Taulihawa Distribution Center	Taulihawa Old	23.00	196	ACSR(Dog)
		Taulihawa New	21.00		ACSR(Dog)
		Jitpur	9.00	120	ACSR(Dog)
		Labani	47.00	61	ACSR(Dog)
		Ghanchaura	22.00	40	ACSR(Dog)
		Sub-Total	**122.00**		

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Amuwa Distribution Center	11 KV Suryapura Feeder	97.20	93.65	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Chhapiya Feeder	24.84	82.76	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Farsaticker old Feeder	60.50	61.32	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Milanchowk Feeder	21.22	130.25	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Farsaticker New Feeder	28.25	157.5	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Dogana Feeder	13.72	134.66	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Kamariya Feeder	93.70	83.52	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Bagdari Industrial Feeder	15.00	34.2	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Pokharabari Feeder	16.50	58.22	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Amuwa Feeder	0.80	35.44	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
		11 KV Kanari Feeder	12.35	5.1	100 mm2 covered, 0.05 ACSR, 0.03 ACSR
2	Arghakhanchi Distribution Center	Sandhikharka Bazar	21.06	40	ACSR(Rabbit)
		Dhikura	59.81	8	ACSR(Rabbit)
		Mathurabeshi	16.31	25	ACSR(Rabbit)
		Nuwakot	64.47	18	ACSR(Rabbit)
		Dharampani	51.38	20	ACSR(Rabbit)
		Wangla	48.34	0	ACSR(Rabbit)
		Chidika-Balkot	16.00	25	ACSR(Rabbit)
		Pali-Maidan	14.24	25	ACSR(Rabbit)
		Pokharathok	14.49	57	ACSR(Rabbit)
		Siddhara	40.00	11	ACSR(Rabbit)
		Simalpani	48.00	6	ACSR(Rabbit)
		Jukena	51.00	8	ACSR(Rabbit)
		Sitapur	36.55	16	ACSR(Rabbit)
		Palpa Interbranch	24.50	14	ACSR(Rabbit)
		Lamahi (S)	5.70	8	ACSR(Rabbit)
		Lamahi (R)	3.40	6	ACSR(Rabbit)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
3	Bardaghat Distribution Center	Bardaghat Feeder	54.69	199	ACSR (Dog, Rabbit, Weasel) , XLPE
		Pratappur Feeder	54.93	205	ACSR (Dog, Rabbit, Weasel) , XLPE
		Industrial Feeder	15.91	280	ACSR (Dog,Weasel)
		Dumkibass Feeder	43.38	211	ACSR (Dog, Rabbit, Weasel ,55 Sq XLPE)
		Sunwal Feeder	38.42	193	ACSR (Dog, Rabbit, Weasel) , 100 Sq XLPE
		Triveni Feeder	31.09	104.7	ACSR (Rabbit, Weasel) ,
		Local Feeder	59.41	138.6	ACSR (Rabbit, Weasel) ,
4	Bhairahawa Distribution Center	Feeder No 1	25.00	240	Dog /weasol
		Feeder No 2	26.00	150	Dog /weasol
		Feeder No 3	36.00	190	Dog /weasol
		Feeder No 4	185.00	300	Dog /weasol
		Feeder No 5	27.50	225	Dog /weasol
		Feeder No 6	32.00	240	Dog /weasol
		Feeder No 7	47.00	224	Dog /weasol
		Feeder No 8	12.00	280	Dog /weasol
		Feeder No 9	19.00	240	Dog /weasol
		Airport	7.00	25	100 Covered conductor
		Shankarpur	65.00	180	Dog /weasol
		Chhipagadh feeder	19.00	200	Dog /weasol
		Baikunthpur	16.00	120	Dog /weasol
		Bodhbare	17.00	75	Dog /weasol
		Semrahwa	17.00	230	Dog /weasol
		Siktahan	14.00	80	Dog /weasol
		Feeder No 1	60.00	150	Dog /weasol
		Feeder No 2	45.00	130	Dog /weasol
		Feeder No 3	32.00	100	Dog /weasol
		Feeder No 4	80.00	180	Dog /weasol
		Feeder No 5	20.00	25	Dog /weasol
		Feeder No 6	15.00	80	Dog /weasol
		Feeder No 07	18.00	80	Dog /weasol

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
5	Butwal Distribution Center	Butwal East	19.56	301	ACSR(Dog)
		Butwal West	37.00	359	ACSR(Dog)
		Shaljhandi	34.99	313	ACSR(Dog)
		Devinagar	42.08	340	ACSR(Dog)
		Charange	26.90	110	ACSR(Dog)
		Chauraha west	59.59	311	ACSR(Dog)
		Chauraha East	36.47	257	ACSR(Dog)
		Chauraha East New	3.00	245	ACSR(Dog)
		Kalikanagar	10.00	344	ACSR(Dog)
		Deepnagar	23.00	186	ACSR(Dog)
		Devdaha	29.45	57	ACSR(Dog)
		Bhaluhi	24.18	109	ACSR(Dog)
		Suryapura	6.75	118	ACSR(Dog)
		Kanchan	29.10	62	ACSR(Dog)
		Murgiya	34.80	235	ACSR(Dog)
		Durga Bhawani	39.32	192	ACSR(Dog)
		Saljhandi	27.50	81	ACSR(Dog)
		Tinau 3.3	10.76	0	ACSR(Dog)
6	Gulmi Distribution Center	Bhatkuwa	27.63	25	ACSR(Rabbit) + 100sqmm Covered Conductor: 18.8km
		Digam	5.50	23	ACSR(Rabbit) + 100sqmm Covered Conductor: 4km
		Thorga	12.80	21	ACSR(Rabbit)
		Balethum	60.87	45	ACSR(Rabbit)
		Birbas- Tamghas	16.50	10	100sqmm Covered Conductor:
		Majuwa	32.70	38	ACSR(Rabbit)
		Huga	31.38	27	ACSR(Rabbit)
		Bastu	24.00	9	ACSR(Rabbit) + 50sqmm Covered Conductor: 12km
		Isma	28.38	21	ACSR(Rabbit) + 50sqmm Covered Conductor
		Malika Feeder	9.00	9	ACSR(Rabbit)
		Jaisithok	28.10	18	ACSR(Rabbit) + 50sqmm Covered Conductor
		Wagla Feeder	23.77	13	ACSR(Rabbit) + 50sqmm Covered Conductor
		Sirseni Feeder	26.00	7	ACSR(Rabbit) + 50sqmm Covered Conductor
		Ghamir Feeder	11.00	8	ACSR(Rabbit) + 50sqmm Covered Conductor
		Uanayachur-Tamghas	18.31	52	ACSR(Rabbit) + 100sqmm Covered Conductor:
		Unayachaur-Bhadgaun	3.00	15	ACSR Dog
		Kaligandaki Jayakhani	26.00	7	ACSR(Rabbit)
		Kaligandaki Harchikot	24.50	8	ACSR(Rabbit)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
7	Krishnanagar Distribution Center	Shivpur Feeder	67.32	280.00	ACSR(Dog, Rabbit, Weasel)
		Chandrouta-Bahadurgunj Feeder	19.07	150.00	ACSR(Dog, Rabbit, Weasel)
		Pipara Feeder	79.89	135.00	ACSR(Dog, Rabbit, Weasel)
		Buddhi Feeder	11.56	81.00	ACSR(Dog, Rabbit, Weasel)
		Krishnanagar Feeder	5.93	117.00	ACSR(Dog, Rabbit, Weasel)
		Premnagar Feeder	95.56	127.00	ACSR(Dog, Rabbit, Weasel)
		Krishnanagar-Bahadurgunj Feeder	78.54	97.00	ACSR(Dog, Rabbit, Weasel)
		Maharajgunj Feeder	8.00	41.00	ACSR(Dog, Rabbit, Weasel)
		Dhankouli Feeder	60.50	60.00	ACSR(Dog, Rabbit, Weasel)
		Baraipur Feeder	41.44	80.00	ACSR(Dog, Rabbit, Weasel)
8	Nayamill Distribution Center	11 KV Nayamill East	40.91	300	ACSR (100,50,30 Sqmm)
		11 KV Nayamill west	32.76	210	ACSR (100,50,30 Sqmm)
		11 KV Janakinagar	19.65	300	ACSR (100,50,30 Sqmm)
		11 KV Gorkatta	20.20	90	ACSR (100,50,30 Sqmm)
		11 KV Nayamill	19.65	170	ACSR (100,50,30 Sqmm)
		11 KV Bharauliya	20.40	110	ACSR (100,50,30 Sqmm)
		11 KV Kanchi Bazar	28.92	115	ACSR (100,50,30 Sqmm)
		11 KV Kotihawa	20.51	220	ACSR (100,50,30 Sqmm)
		11 KV 5 No Bhairahawa	7.00	70	ACSR (100,50,30 Sqmm)
		11 KV Ragargunj	21.15	86	ACSR (100,50,30 Sqmm)
		11 KV Tikuligadh	15.03	85	ACSR (100,50,30 Sqmm)
9	Palpa Distribution Center	Bajar	25.00	174.00	ACSR (Dog+Rabbit+Weasel)
		East	91.79	76	ACSR (Dog+Rabbit+Weasel)
		West	198.57	82.00	ACSR (Dog+Rabbit+Weasel)
		Gumba	1.20	57	ACSR (Dog+Rabbit+Weasel)
		Tahun	57.41	62	ACSR (Dog+Rabbit+Weasel)
		Archale	22.00	7	ACSR (Dog+Rabbit+Weasel)
		Nisdi (Mityal)	76.10	18	ACSR (Dog+Rabbit+Weasel)
		Jhadewa	39.19	11	ACSR (Dog+Rabbit+Weasel)
		Tansen	24.66	26	ACSR (Dog+Rabbit+Weasel)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder (km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
10	Parasi Distribution Center	Parasi East Feeder	30.00	135	Dog
		Parasi West Feeder	10.00	95	Rabbit
		Sanai Feeder	30.00	80	Dog/Rabbit/Weasel
		Industrial Feeder	10.00	210	Dog
		Rakasha Feeder	30.00	130	Dog/Rabbit
		Ranipakkad Feeder	25.00	95	Dog/Rabbit
		Badera Feeder	30.00	115	Dog/Rabbit/Weasel
		Sunwal	22.00	150	Dog/Rabbit/Weasel
		PalhiBhagawati Feeder	25.00	75	Dog/Rabbit/Weasel
		Local Feeder	35.00	160	Dog/Rabbit/Weasel
		West Feeder	30.00	120	Dog/Rabbit/Weasel
		South Feeder	32.00	160	Dog/Rabbit/Weasel
		Tribheni Feeder	22.00	120	Dog/Rabbit/Weasel
		Ramapur Feeder	20.00	170	Dog/Rabbit
		Ashnaiya Feeder	22.00	120	Dog/Rabbit
11	Taulihawa Distribution Center	Market Feeder	14.00	134	ACSR (Dog,Rabbit,Weasel)
		Krishnanagar Feeder	38.00	50	ACSR (Dog,Rabbit,Weasel)
		Rangapur Feeder	28.00	49	ACSR (Dog,Rabbit,Weasel)
		Mahita Feeder	35.00	195	ACSR (Dog,Rabbit,Weasel)
		Lumbini Feeder	38.00	42	ACSR (Dog,Rabbit,Weasel)
		Dohani Feeder	28.00	86	ACSR (Dog,Rabbit,Weasel)
		Sauraha Feeder	29.00	42	ACSR (Dog,Rabbit,Weasel)
		Mehaniya Feeder	28.00	68	ACSR (Dog,Rabbit,Weasel)
		Pakadi Feeder	26.50	11	ACSR (Dog,Rabbit,Weasel)
		Shivalawa Feeder	55.00	102	ACSR (Dog,Rabbit,Weasel)
		Gajehada Feeder	16.00	55	ACSR (Dog,Rabbit,Weasel)
		Pipara Feeder	26.00	62	ACSR (Dog,Rabbit,Weasel)
		Kopawa Feeder	38.30	64	ACSR (Dog,Rabbit,Weasel)
		4 No feeder	12.00	68	ACSR (Dog,Rabbit,Weasel)
		Odari Feeder	41.00	120	ACSR (Dog,Rabbit,Weasel)
		Motipur Feeder	8.00	55	ACSR (Dog,Rabbit,Weasel)
		School Feeder	9.00	49	ACSR (Dog,Rabbit,Weasel)
		Bhalwaad Feeder	16.00	19	ACSR (Dog,Rabbit,Weasel)
		Mahendrakot Feeder	45.90	31	ACSR (Dog,Rabbit,Weasel)
		Gorusinge Feeder	19.00	42	ACSR (Dog,Rabbit,Weasel)

LUMBINI PROVINCE DIVISION OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Gulariya Distribution Centre	Gulariya Substation	20//24	24	33/11	√		
		Simra Substation	13/16	16	33/11	√		
		Machhagadh Substation						√
2	Kohalpur Distribution Centre	Kohalpur grid	16.6,16.6	33.2	33/11	√		
		Kohalpur grid	63,63		132/33		√	
3	Lamahi Distribution Centre	Maurighat Sub Station	8		33/11		√	
		Gadawa Sub Station	8		33/11		√	
4	Pyuthan Distribution Centre	Damti	3	3	33/11	√		
		Khawang	3		33/11			√
		Rajwada	3		33/11			√
5	Rajapur Distribution Centre	Naya Gau S/S	6/8 MVA	8	33/11	√		
6	Rolpa Distribution Centre	Lakuri/Khumel S/S	1*3 MVA	3	33/11	√		
		Koilachour S/S	1*6/8 MVA	8	33/11	√		
		Holeri S/S	1*3 MVA	3	33/11	√		
		Thawang S/S			33/11			√
		Ghartigaun S/S			33/11			√
7	Tulsipur Distribution Cenre	Ashwora	1*6/8	8	33/11	√		
		Tulsipur	2*6/8	16	33/11	√		2*20
8	Rukum East Distribution Centre	Rukumkot			33/11		√	
		Kakri			33/11		√	
9	Ghorahi Distribution Centre	ghorahi substation	6/8 , 24	32	33/11	√		
		mukundada substation	6/8		33/11		√	
		hapur substation	6/8		33/11		√	
		kamirechaur substation	6/8		33/11		√	
10	Nepalgunj Distribution Centre	Nepalgunj Old	1*16.6,1*16.6	33.2	33/11	√		
		Nepalgunj New	1*6.8, 1*16.6, 1*24	48.6	33/11	√		
		Dhampur	6/8	8	33/11	√		
		Khajura	6/8		33/11		√	

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2081/082	Maximum 33kV Feeder Load of 2081/082	Conductor Type
1	Gulariya Distribution Centre	Kohalpur-Mianapokahar-Gulariya	49.67	193	ACSR(DOG)
		Bhurigau-Gulariya	37.7	292	ACSR(WOLF)
2	Kohalpur Distribution Centre	Ambe-1	16.5	318	ACSR Dog
		Ambe-2	13.8	327	ACSR Dog
3	Lamahi Distribution Centre	Samrat Cement 33 kV Feeder	5.92	14.8 MVA	HTLS
		Old Ghorahi 33 kV Feeder	5.57	0.3 MVA	DOG
4	Pyuthan Distribution Centre	Jhimruk-Pyuthan	237.14	65	0.03, 0.05
5	Rajapur Distribution Centre	Tikapur-Rajapur 33 kV	16	95.23 A	ACSR (Dog, Rabbit)
6	Rolpa Distribution Centre	Jhimruk-Rolpa 33 KV Line	258	45	ACSR(Rabbit/Dog)
		Ghorahi-Holeri 33 KV Line	40	15	ACSR(Rabbit/Dog)
		Kapurkot-Koila 33 KV Line	30	20	ACSR(Rabbit/Dog)
7	Tulsipur Distribution Centre	Hapure to Ashwara	58	284	ACSR(Wolf)
		Ashwara to Gahate Khola	5		ACSR(Wolf)
		Gahate khola to Tulsipur	14	241	ACSR(Wolf)
		Tulsipur to Ghorahi	26		ACSR(Wolf)
8	Rukum Purba Distribution Centre		47	0	ACSR (DOG)
9	Ghorahi Distribution Centre	Lamahi - Ghorahi (Jhigni)	23	5	ACSR(Dog)
		Jhigni - Ghorahi	9	240	ACSR(Dog)
		Jhigni - Dudhras (sonapur minerals)	20.6	170	ACSR(Dog)
		jhigni - ghorahi cements industries	3	342	ACSR(WOLF)
		ghorahi-tulsipur	22	0	ACSR(Dog)
10	Nepalgunj Distribution Centre	Kohalpur-Nepalgunj line.1	21.59	216	ACSR(Dog)
		Kohalpur-Nepalgunj line.2	21.59	295	ACSR(Dog)
		Kohalpur-Nepalgunj line.3	15.6	275	ACSR(Dog)
		Nanpara(India)-Nepalgunj	26.07	0	ACSR(Dog)
		Kohalpur-Dhampur	42.96	310	ACSR(Dog)

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
1	Gulariya Distribution Centre	City Feeder	65.70	217	ACSR(Dog,Rabbit,Weasel)
		Nikunj Fedder	89.50	110	ACSR(Dog,Rabbit,Weasel)
		Krishnasar	69.50	118	ACSR(Dog,Rabbit,Weasel)
		Mainapokhar	73.50	128	ACSR(Dog,Rabbit,Weasel)
		Magragadhi	101.00	135	ACSR(Dog,Rabbit,Weasel)
		jamauni	46.00	117	ACSR(Dog,Rabbit,Weasel)
		Badhaiya	89.50	98	ACSR(Dog,Rabbit,Weasel)
		Bansgadhi	69.50	115	ACSR(Dog,Rabbit,Weasel)
		Industrial	25.00	34	ACSR(Dog,Rabbit,Weasel)
		Khajura	2.00	120	ACSR(Dog,Rabbit,Weasel)
		Mainapokhar	46.00	113	ACSR(Dog,Rabbit,Weasel)
		Balati	8.30	13.93	ACSR(Dog,Rabbit,Weasel)
		Bhurigau	57.00	90.66	ACSR(Dog,Rabbit,Weasel)
		Thakurbaba	55.02	99.3	ACSR(Dog,Rabbit,Weasel)
2	Kohalpur Distribution Centre	Kohalpur	40.455	329	ACSR (Dog, Rabbit, Weasel)
		Samjhana	94.39	289	ACSR (Dog, Rabbit, Weasel)
		Chisapani	64.124	270	ACSR (Dog, Rabbit, Weasel)
		Raajha	66.08	305	ACSR (Dog, Rabbit, Weasel)
		Industrial	19.35	315	ACSR (Dog, Rabbit, Weasel)
		Samshergunj	78.815	294	ACSR (Dog, Rabbit, Weasel)
		Sikta	28	14	ACSR (Weasel)
		Kusum	35	8	
3	Lamahi Distribution Centre	Lamahi Feeder	49.5	2.76	Dog/Rabbit/Weasel/XLPE Covered
		Bhalubang Feeder	133	3.42	Dog/Rabbit/Weasel/XLPE Covered
		Gadawa Feeder	211	4	Dog/Rabbit/Weasel/XLPE Covered
		Maurighat Feeder	122	3.08	Dog/Rabbit/Weasel/XLPE Covered
		Rihar Feeder	100	1.8	Dog/Rabbit/Weasel/XLPE Covered
		Amiliya-Kusum Feeder	3	0.5	Dog/Rabbit/Weasel
		Khanepani Feeder	3.5	0.2	50 sq. Mm XLPE Covered Conductor
4	Pyuthan Distribution Centre	Bijuwar	10	5	0.1 Covered Conductor

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
5	Rajapur Distribution Centre	Rajapur Feeder	54.00	116.7	ACSR (Dog, Rabbit, Weasel)
		New Feeder	62.60	106.6	ACSR (Dog, Rabbit, Weasel)
		Geruwa Feeder	70.40	90.17	ACSR (Dog, Rabbit, Weasel)
6	Rolpa Distribution Centre	Holeri Feeder	19	13	ACSR(Rabbit)
		Tila Feeder	49	3	ACSR(Rabbit)
		Surpal-Masina Feeder	44	6	ACSR(Rabbit)
		Koila Feeder	0.5	1	ACSR(Rabbit)
		Budagau Feeder	27.6	23	ACSR(Rabbit)
		Mijhing Sulichour Feeder	120	13	ACSR(Rabbit)
		Khumel Gajul Feeder	33.5	5	ACSR(Rabbit)
		Khawase Feeder	43	6	ACSR(Rabbit)
		11 KV Line Tapping from Salyan DCS(Damachaur to Jhyam)	81	23	ACSR(Rabbit)
		Thawang Mirul	2.2		ACSR(Rabbit)
		Gangadev Malekhola	9		ACSR(Rabbit)
7	Tulsipur Distribution Cenre	Kapurkot Feeder	14.3	16	ACSR - Rabbit and Weasel
		Airport Feeder	19.53	185	ACSR - Rabbit and DOG,XLPE 100 SQMM
		Manpur Bijauri Feeder	78.66	104	ACSR - Rabbit and DOG,XLPE 100 SQMM
		Fulbari Feeder	81.7	76	ACSR - Rabbit and DOG,XLPE 100 SQMM
		Krishnamandir Feeder	18.7	136	ACSR - Weasel , Rabbit and DOG
		Balapur Feeder	50.5	98	ACSR - Weasel , Rabbit and DOG
		Bhamake Feeder	25.63	36	ACSR - Weasel , Rabbit and DOG
		Sukaura Feeder	17.71	75	ACSR - Weasel , Rabbit and DOG
		Purandhara Feeder	69.3	32	ACSR - Weasel , Rabbit and DOG
		Panchakule Feeder	59	56	ACSR - Weasel , Rabbit and DOG
		Baghmarey Feeder	38.8	26	ACSR - Weasel , Rabbit and DOG
8	Rukum East Distribution Centre	Rukum Purba Feeder	213.8	51 A	ACSR (Weasel, Rabbit) 100 & 55 Sqmm XLPE (Covered Conductor)

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2081/082	Maximum 11kV Feeder load of 2081/082	Conductor Type
9	Ghorahi Distribution Centre	Rampur	31.2	40	eg. ACSR(Weasel)
		Googli	26.8	70	eg. ACSR(Weasel)
		Hospital	1.2	25	eg. ACSR(Weasel)
		Narayanpur	84.8	163	eg. ACSR(Weasel)
		Bazzar	6.25	152	eg. ACSR(Weasel)
		Hapur	146.7	70	eg. ACSR(Weasel)
		Nawalpur	15.2	114	eg. ACSR(Weasel)
		Dharapani	63.07	27	eg. ACSR(Weasel)
		Hasipur	60.6	2	eg. ACSR(Weasel)
		Ratanpur	20.7	87	eg. ACSR(Weasel)
		Gulariya	5.5	107	eg. ACSR(Weasel)
10	Nepalgunj Distribution Centre	Bageshwori	18.88	204	ACSR(DOG)
		Fultekra	17.85	361	ACSR(DOG)
		Rural	125.68	222	ACSR(DOG)
		Khajura	104.87	340	ACSR(DOG)
		Airport	45.41	295	ACSR(DOG)
		Hawai	6.88	345	ACSR(DOG)
		ICP Feeder	4.80	8.1	ACSR(DOG)
		Buspark	24.89	2.1	ACSR(DOG)
		Sadarline	10.91	175	ACSR(DOG)
		City	9.48	240	ACSR(DOG)
		Border	22.99	190	ACSR(DOG)
		Eastern	27.07	120	ACSR(DOG)
		Paraspur	87.22	225	ACSR(DOG)
		Industrial	1.76	90	ACSR(DOG)
		Binauna	22	17	ACSR(DOG)
		Baijapur	31	23	ACSR(DOG)
		Khajura (Mainapokhar)	3.25	120	ACSR(DOG)
		Bheri Hospital	0.81	27	ACSR(DOG)

KARNALI PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2081/082		Voltage level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)	(KV)			
1	Surkhet	Budbudi S/S	1x16+2*6/8	32	33/11	√		
		Ramghat S/S	1x6/8	8	33/11	√		
		Rakam S/S	1x6/8	8	33/11	√		
		Babiyachaur S/S	1x3	3	33/11	√		
		Matela S/S	1x3	3	33/11	√		
		Hurke S/S	1*3	3	33/11		√	
		Chaukune S/S	1*3	3	33/11		√	
2	Dailekh	Dailekh	6/8.	8	33/11	√		
		Dullu	3	3	33/11	√		
		Rakum Karnali	3	3	33/11		√	
3	Kalikot	Manma	3	3	33/11	√		
		Nagma	1	3	33/11		√	
		Raskot	1	3	33/11		√	
4	Jumla	Khalanga	3	3	33/11		√	
		Sinja	3	3	33/11		√	
5	Gamgadh	Gamgad	3	3	33/11		√	
		Khatyad	3	3	33/11		√	
		Mangri	3	3	33/11		√	
6	Heldung	Simikot	3	3	33/11		√	
		Adanchuli	3	3	33/11		√	
7	Jajarkot	Kudu	3	3	33/11	√		
		Chaukha	3	3	33/11	√		
		Samaila	1	1	33/11		√	
		Badaban	1	1	33/11		√	
8	Salyan	Sitalpati	6/8.	8	33/11	√		
		Tharmare	3	3	33/11	√		
		Dimure	1	1	33/11		√	
9	Rukum West	Musikot	3	3	33/11	√		
		Vampuchaur	3	3	33/11		√	
10	Dolpa	Tripurakot	3	3	33/11		√	

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 KV Feeder	Length of Feeder(km) upto 2080/081	Maximum 33kV Feeder Load (A) of 2080/081	Conductor Type
1	Surkhet	Kohalpur-Ramghat Surkhet incommer Feeder	79	280	ACSR(Dog)
		Ramghat- Rakam-Jajarkot Feeder	52	42	ACSR (DOG)
		Ratanangla-Matella Feeder	24	2	ACSR (DOG)
		Lamki-Kuiene-Babiyachaur-Budbude Surkhet incommer Feeder	66	130	ACSR(Dog)
2	Dailekh	Surkhet - Dailekh	39	208	ACSR (DOG)
		Naumule - Dailekh (IPP)	28	232	ACSR (DOG)
		Dailekh-Dullu	17	60	ACSR (DOG)
3	Kalikot	Dullu-Kalikot	60	20	ACSR (DOG)
		Kamalbazar-Saikhola	10	24	ACSR (DOG)
4	Jumla	Nagma-Jumla	**36**	0	ACSR (DOG)
5	Gamgadh		**0**		
6	Heldung		**0**		
7	Jajarkot	Rakam - Kudu Feeder	34	29.29 A	ACSR(Dog)
		Kudu - Chaukha Feeder	54.401	0	ACSR(Dog)
8	Salyan	Tulsipur -Sitalpati	46	81	ACSR (DOG)
		Sitalpati -Tharmare	34.5	33	ACSR (DOG)
9	Rukum West	Tharmare-Musikot	**55**	45.07	ACSR (DOG)
10	Dolpa		**0**		

3. 11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2080/081	Maximum 11kV Feeder load (A) of 2080/081	Conductor Type
1	Surkhet Distribution Center	Bazar Feeder	45	250 A	ACSR(Dog and Rabbit)
		Bulbule Feeder	39.8	240A	ACSR(Dog and Rabbit)
		Tatopani	15	240A	ACSR(Dog and Rabbit)
		Pipira Feeder	81.8	150A	ACSR(Rabbit)
		Harre and Kalyan Feeder	74	75A	ACSR(Rabbit)
		Botechaur Feeder	130	140A	ACSR(Rabbit)
		Simta Feeder	57	16A	ACSR(Rabbit)
		Bandgad-Kupinde	20	14A	ACSR(Rabbit)
		Babiyachaur Bazar Feeder	34.05	16A	ACSR(Rabbit)
		Gutu Feeder	35	11A	ACSR(Rabbit)
		Bazzar Feeder	2	2A	ACSR(Rabbit)
		Awalching	15	2.5A	ACSR(Rabbit)
		Rajena Samudayik Feeder	35	4A	ACSR(Rabbit)
		Total	**583.65**		

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2080/081	Maximum 11kV Feeder load (A) of 2080/081	Conductor Type
2	Dailekh Distribution Center	Bazar	6.7	28	XLPE/ACSR (Rabbit)
		Mahabu	108.91	28	XLPE/ACSR (Rabbit)
		Bestada	77	10	XLPE/ACSR (Rabbit)
		Chupra	160.61	38	ACSR(Rabbit)
		Dullu	69.91	31	XLPE/ACSR (Rabbit)
		Jambukadh	119.1	20	XLPE/ACSR (Rabbit)
		Total	**542.23**		
3	Kalikot Distribution Center	Raskot Feeder	183.67	6A	ACSR(Weasel)
		manma feeder	28.45	7A	ACSR(Weasel)
		tila feeder	93.46	45A	0.5/0.3 ACSR./XLPE50 mmsquare
		naraharinath feeder	64.374	2A	0.5/0.3 ACSR
		Total	**369.954**		
4	Jumla Distribution Center	Jumla	135.32	67	eg. ACSR(Weasel, Rabbit, Dog & 55 sq.mm XLPE)
		Total	**135.32**		
5	Gamgad Distribution Center	Tila Feeder	27	23	ACSR(Dog)
		Talcha Feeder	52	10	ACSR(Rabbit)
		Bazar Feeder	25.227	15	ACSR(Weasel)
		Total	**104.227**		
6	Heldung Distribution Center	DADAFAYA	17	Directly Distributed From Hydro Power (Meter Not Connected)	Weasel +Rabbit
		DOJAM	14		Weasel +Rabbit
		KHARPUNATH	10		Weasel +Rabbit
		SIMIKOT	5		Weasel
		Total	**46**		
7	Jajarkot Distribution Center	Khalanga feeder	66	31.5	ACSR(Rabbit)
		Kudu Feeder	181	22.9	ACSR(Rabbit)
		Rukum-Feeder (From Rukum West)	31.5	8	ACSR(Rabbit)
		Total	**278.5**		

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder(km) upto 2080/081	Maximum 11kV Feeder load (A) of 2080/081	Conductor Type
8	Salyan Distribution Center	Khalanga Feeder	53.761	35	eg. ACSR(Dog, Rabbit), 55 Sq.mm Covered
		Shreenagar Feeder	136	58	ACSR (Rabbit), 55 Sq.mm Covered
		Barala Feeder	45	22	ACSR(Rabbit), 55 Sq.mm. Covered
		Kotmaula Feeder	62.996	32	ACSR (Rabbit)
		Bapukhola Feeder	49.4	12	ACSR (Rabbit)
		Tulsipur S/S to 11 KV Kapurkot	81.772	12	ACSR(Dog, Rabbit)
		Kudu S/S to 11 KV Salyan	38.091	9	ACSR (Rabbit)
		Rakam S/S to 11 KV Salyan	57.55	10	ACSR (Rabbit), 55 Sq.mm Covered
		Kalimati Babai	1.359	0	ACSR (Rabbit), 55 Sq.mm Covered
		Total	**525.929**		
9	Rukum West Distribution Center	Khalanga Feeder	12.5	31.7	55 Sq.mm XLPE and ACSR Rabbit
		Sanibheri	140.4	63.72	55 Sq.mm XLPE, ACSR Rabbit, weaasel and Squirrel
		Banikot	89.9	20.67	55 Sq.mm XLPE, ACSR Rabbit, weaasel and Squirrel
		Tribeni	65.42	19.7	55 Sq.mm XLPE and ACSR Rabbit
		Purba Rukum	25.55	19.27	100 Sq.mm XLPE and ACSR Rabbit
		Chaurjahari	58.83	34.6	55 Sq.mm XLPE, ACSR Rabbit and Squirrel
		Total	**392.6**		
10	Dolpa Distribution Center	Juphal Feeder	77.383	275KVA	Rabbit & Weasel
		Dunai Feeder	11	645KVA	Rabbit & Weasel
		Total	**88.383**		

SUDURPASCHIM PROVINCIAL OFFICE

1. Substation Status

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2080/081		Voltage Level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)				
1	Mahendranagar	Mahendranagar	20/24	24	33/11	√		
2		Gaddachauki	6/8+	8	33/11	√		
3		Dodhara	6/8+	8	33/11	√		
4		Jhalari, Kaluwapur	20/24	24	33/11	√		
5	Belauri	Belauri	20/24	24	33/11	√		
6		Punarbas	6/8+	8	33/11		√	
7	Bhajani	Joshipur	8	8	33/11	√		
8	Tikapur	Tikapur	16.6	16	33/11	√		
9		Sugarkhal	3	3	33/11		√	
10	Dhangadhi	Chaumala	6/8+	8	33/11	√		
11		Dhangadhi	20/24 + 6/8	32	33/11	√		
12		Hasauliya	6/8+	8	33/11	√		
13	Dadeldhura	Dadeldhura	6/8+	8	33/11	√		
14		Budar (Doti)	5	5	33/11	√		
15		Bagarkot	1.5	1.5	33/11	√		
16		Jogbudha	3	3	33/11	√		
17		Sahukharka	3	3	33/12			√
18		Sakayal	1.5	1.5	33/11	√		
19	Baitadi	Baitadi Gothalapani	3	3	33/11	√		
20		Sigash	3	3	33/11		√	
21		Sillegada	3	3	33/11		√	
22		Patan	6/8+	8	33/11		√	
23		Melauli	6/8+	8	33/11		√	
24	Doti	Pipalla	6	6	33/11	√		
25		BP nagar	3	3	33/11	√		
26		Mauwa	3	3	33/11	√		
27		Tikhatar	3	3	33/11	√		
28	Achham	Jhakale	6	6	33/11	√		
29		Kamal bazzar	3	3	33/11	√		
30	Darchula	Balanche	3	3	33/11	√		
31		Thaligad	3	3	33/11	√		
32		Marma	6/8+	8	33/11	√		
33		Lekam	3	3	33/11		√	
34		Gokuleshor Switching with 3MVA 33/11 TR	3	3	33/11			√
35		Huti	3	3	33/11			√

S.N.	Distribution Center	Name of Substation	Total Capacity (MVA) upto 2080/081		Voltage Level	Existing	Under Construction	Proposed
			Transformer Size (MVA)	Total Capacity (MVA)				
36	Bajhang	Bagthala	3	3	33/11	√		
37		Chainpur Selakhet	3	3	33/11	√		
38		Bungal	3	3	33/11			√
39	Bajura	Kolti	3	3	33/11		√	
40		Budhiganga	3	3	33/11		√	
41		Martadi	5	5	33/11	√		

2. 33 kV Feeder Status

S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum Load of 2080/081 (Amp)	Conductor Type
1	Dhangadhi	Attariya-Dhangadhi Feeder	14	170	ACSR (DOG)
		Attariya-Dhangadhi New Feeder	15	320	ACSR (WOLF)
		Attariya- Buder Feeder	48.4	95	ACSR (DOG)
		Pahalmanpur-Hasuliya Feeder	25	60	ACSR (DOG)
		Pahalmanpur-Chaumala Feeder	26	70	ACSR (DOG)
		Attariya- Chaumala	22.4	0	ACSR (DOG)
2	Mahendranagar	Lalpur - Mahendranagar	7	305	ACSR (DOG)
		Mahendranagar - Gaddachauki	8	127	ACSR (DOG)
		Gaddachauki - Dodhara	12	72	ACSR (DOG/RABBIT, WEASEL)
		Lalpur - Kalawapur	18	286	ACSR (DOG)
3	Tikapur DC	Lamki-Tikapur	14	298	ACSR (DOG)
		Lamki- Sugarkhal (Solta)	34.5	131	ACSR (DOG/RABBIT)
4	Bhajani	Joshipur Toraiyapur Feeder	10.4	80	ACSR (DOG)
5	Dadeldhura	Syaule- Dadeldhura	3.5	90	ACSR (DOG)
		Syaule- Bagarkot	18	7	ACSR (DOG)
		Syaule- Buder	34	35	ACSR (DOG)
		Budar-Jogbuda	23	20	ACSR (DOG)
6	Baitadi	Dadeldhura-Baitadi	52	36	ACSR (RABBIT)
		Balanch - Baitadi	29	36	ACSR (DOG)
7	DOTI	Syaule- Dipayal (Pipalla)	40.41	67.23	ACSR(Dog)
		Dipayal - Mauwa	8.97	63.84	ACSR(Dog)
		Sahajpur- BP Nagar	13.83	7	ACSR(Dog)
		Tikhatar to Pipalla Dipayal	19.78	2.54	ACSR(Dog)

S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum Load of 2080/081 (Amp)	Conductor Type
8	Darchula	Darchula Feeder (Gokule to Thaligad)	25	30	ACSR (DOG)
		Marma Feeder	19.5	6	ACSR (DOG)
9	Achham	Doti (Pipla)-Achham	40	90	ACSR (DOG)
		Sanfe Kamalbazar	40	70	ACSR (DOG)
10	Belauri	Lalpur-Belauri	32.68	202	ACSR (DOG)
11	Bajhang	Khodpe- Chainpur	96		ACSR (DOG/RABBIT)
12	Bajura	Sanfe Martadi	60	8	ACSR (DOG)

3. 11 kV Feeder Status

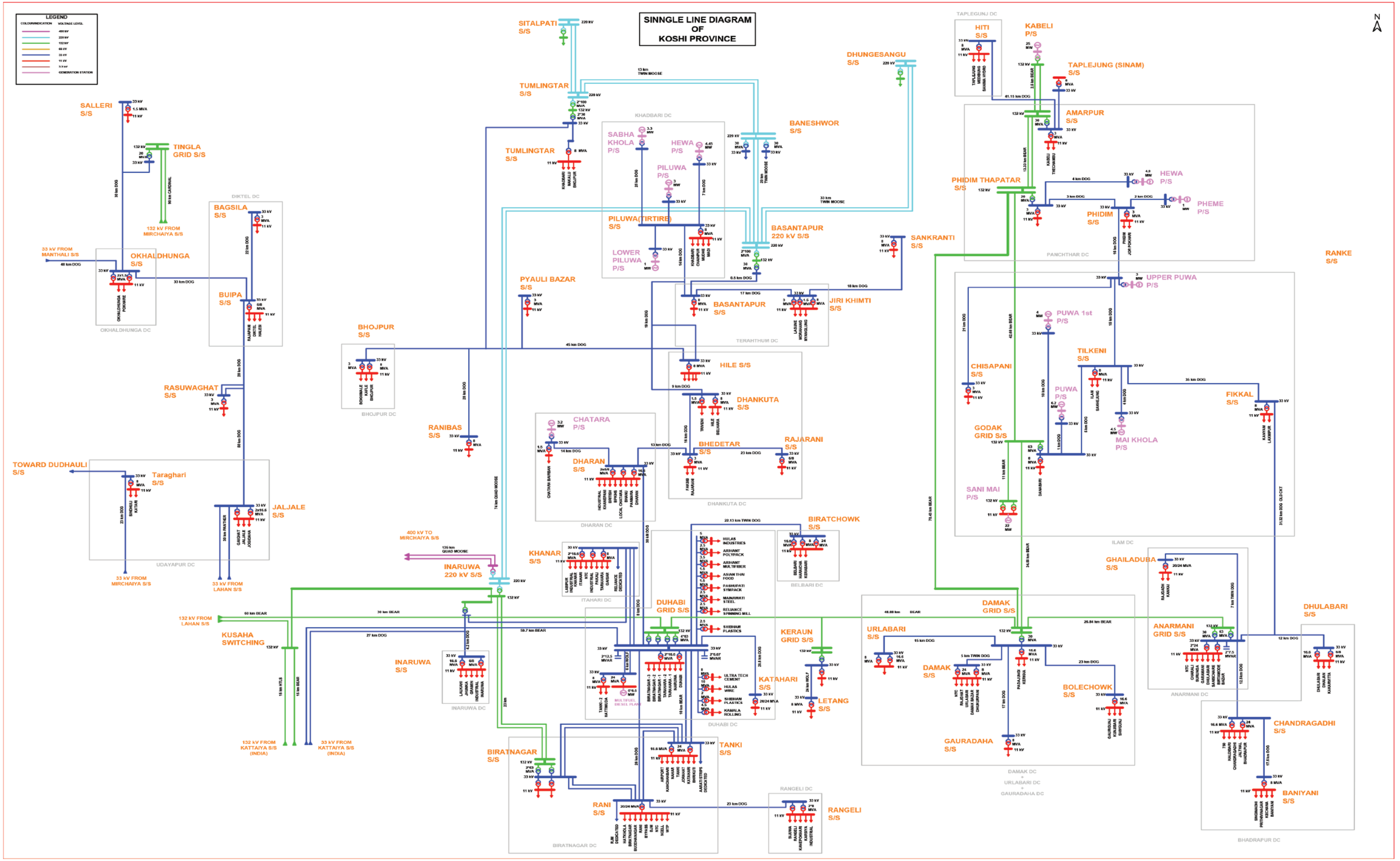
S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum load of 2081/082, Amp	Conductor Type
1	Dhangadhi	JORAYAL FEEDER	142	32	ACSR (RABBIT / WEASEL)
2		Basantpur Feeder	9	83	ACSR (RABBIT / WEASEL)
3		Attariya Feeder	16	201	ACSR (RABBIT / WEASEL)
4		Lalpur Syule Feeder	32.46	122	ACSR (RABBIT / WEASEL)
5		Geta Feeder	16.42	103	ACSR (RABBIT / WEASEL)
6		Olani Feeder	35.89	88	ACSR (DOG / WEASEL)
7		Airport Feeder	14.54	122	ACSR (RABBIT / WEASEL)
8		Rajipur Feeder	28	78	ACSR (DOG / WEASEL)
9		Chaumala (Chaulama) Feeder	36.41	70	ACSR (DOG / WEASEL)
10		Banbehada Feeder	38	68	ACSR (DOG / WEASEL)
11		Bhansar Feeder	21.71	133	ACSR (DOG / RABBIT)
12		Rajpur Feeder	25.33	192	ACSR (DOG / RABBIT / WEASEL)
13		Hasanpur Feeder	33.74	250	ACSR (DOG / RABBIT)
14		Bela Feeder	44.5	167	ACSR (DOG / RABBIT / WEASEL)
15		Manehara Feeder	30.8	294	ACSR (DOG / RABBIT)
16		Kannari Feeder	25.49	210	ACSR (DOG / RABBIT / WEASEL)
17		Kailali Gau Feeder	8.34	201	ACSR (DOG / RABBIT / WEASEL)
18		Fulbari Feeder(Hasuliya S/s)	24.65	105	ACSR (WEASEL)
19		Basauti Feeder (Hasuliya S/s)	21	69	ACSR (WEASEL)
20		Masuriya Feeder	16.4	92	ACSR (RABBIT / WEASEL)

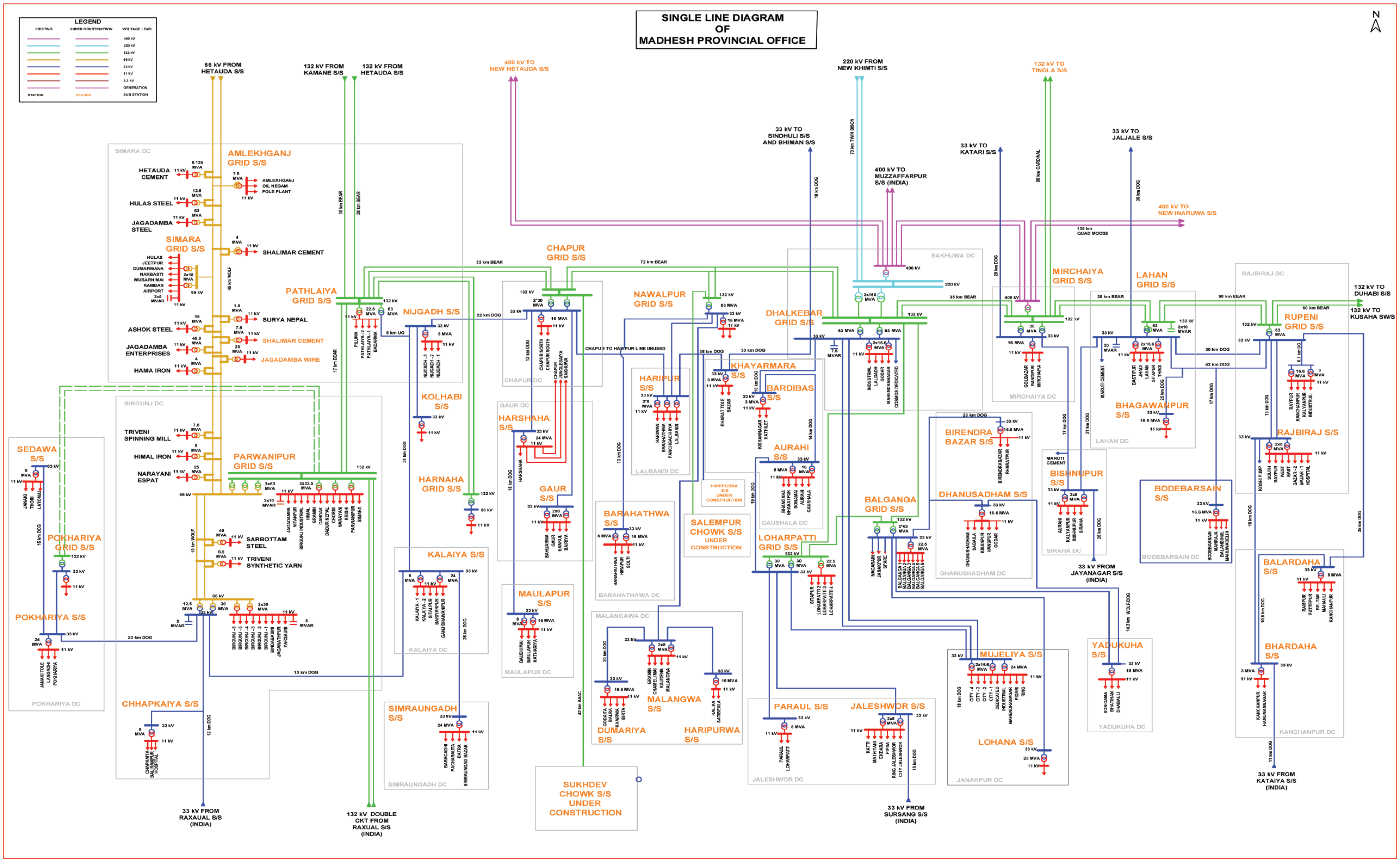
S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum load of 2081/082, Amp	Conductor Type
21	Mahendranagar	LALPUR Feeder	34.6	115	ACSR (RABBIT / WEASEL)
22		DAIJE Feeder	55.5	153	ACSR (RABBIT / WEASEL)
23		BAZAR Feeder	27.8	140	ACSR (RABBIT / WEASEL)
24		BHAASI Feeder	20.65	155	ACSR (RABBIT / WEASEL)
25		AITHPUR Feeder	19.73	80.5	ACSR (RABBIT / WEASEL)
26		BANGAAU Feeder	43.5	125.6	ACSR (RABBIT / WEASEL)
27		MAJGAAU Feeder	16.6	48	ACSR (RABBIT / WEASEL)
28		KRISHNAPUR Feeder	71.8	142	ACSR (RABBIT / WEASEL)
29		BANI Feeder	40	102	ACSR (RABBIT / WEASEL)
30		JHALARI Feeder	46	121	ACSR (RABBIT / WEASEL)
31		PIPLADI Feeder	29	76	ACSR (RABBIT / WEASEL)
32		DODHARA CHADANI Feeder1	57	74	ACSR (DOG)
33		DODHARA CHADANI Feeder2	12	72	ACSR (Cover Conductor DOG)
34		SUKASAAL Feeder	23.5	102	ACSR (RABBIT / WEASEL)
35		JIMUWA Feeder	27	110	ACSR (RABBIT / WEASEL)
36	Belauri	Beldandi Feeder	94.747	152	ACSR (RABBIT / WEASEL)
37		Belauri Feeder	107.76	206	ACSR (RABBIT / WEASEL/ Covered
38		Punarbas Feeder	167.07	268	ACSR (DOG/RABBIT / WEASEL/ Covered
39	Tikapur DC	Tikpaur Feeder	36.931	210	ACSR (DOG/RABBIT), Covered Conductor 100 sq mm
40		Durgauli Feeder	28.2	89	ACSR (DOG/RABBIT), Covered Conductor 100 sq mm
41		Manuwa Feeder	22.3	39	ACSR (DOG/RABBIT)
42		Satti Feeder	46.33	73	ACSR (DOG/RABBIT), Covered Conductor 100 sq mm
43		Jagatpur Feeder	32	85.2	ACSR (RABBIT)
44		Chuha Feeder	37.45	172.5	ACSR (RABBIT)
45		Bazar Feeder	33	147.6	ACSR (DOG/RABBIT)
46		Chissapani Feeder	21.571	38.11	ACSR (DOG/RABBIT)
47		Baliya Feeder	55.772	110.4	ACSR (RABBIT)
48		Pole Plant Feeder	0.5	15	Covered Conductor 50 sq mm
49		Solta Feeder	11.16	10	ACSR (DOG)
50	Bhajani	Pahalmanpur Feeder	36.295	123.9	ACSR (DOG/RABBIT)
51		Bhajani Feeder	31.871	115	ACSR (RABBIT / WEASEL)
52		Joshipur Feeder	28.156	38	ACSR (RABBIT / WEASEL)
53		Sukkhad Feeder	20.51	178.6	ACSR (DOG/RABBIT)

S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum load of 2081/082, Amp	Conductor Type
54	Dadeldhura	BagBazzar feeder	1.2	30	ACSR (RABBIT)
55		Krirtipur Anarkholi Feeder	46.6	38	ACSR (WEASEL)
56		Chamada Feeder	61	16	ACSR (WEASEL)
57		Sakayal feeder	99.29	35	ACSR (WEASEL)
58		Doti ghatal Feeder	15.4	7	ACSR (WEASEL)
59		Bhatkada Feeder	10.7	20	ACSR (WEASEL)
60		Jogbuda Feeder	50	15	ACSR (WEASEL)
		Sadhani Feeder	20	20	ACSR (WEASEL)
		Katal Feeder	30	22	ACSR (WEASEL)
		Gaibadhe Bajar Feeder	52.19	20	ACSR (WEASEL)
61		Budar Gaira Feeder	73.26	15	ACSR (WEASEL)
62		Bagarkot Feeder	11	2	ACSR (WEASEL)
63		Rupal Feeder	22.3	3	ACSR (WEASEL)
64		Dewal Feeder	65	5	ACSR (WEASEL)
65	Baitadi	Bazar Feeder	30.9	19.2	ACSR (RABBIT,WEASEL)
66		Tripura Feeder	144.858	15.5	ACSR (RABBIT,WEASEL)
67		Patan Feeder	226.006	58.96	ACSR (RABBIT,WEASEL)
68		Dogadakedar Feeder	116	14.79	ACSR (RABBIT,WEASEL)
69	Doti	SILGADI FEEDER	82.242	26	ACSR (RABBIT / WEASEL), Covered conductor(55 sq.mm)
70		Wayal-KAPALIKHI	64.166	18	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)
71		RAJPUR BAZAR FEEDER	12.44	44	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)
72		Tikha Feeder	73.656	26	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)
73		KI singh Feeder	16.9	-	ACSR (RABBIT / WEASEL)
74		Tikhatar Bogtan Feeder	11.664	-	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)
75		Jorayal Feeder	43	8	ACSR (RABBIT / WEASEL,) Covered conductor(55 sq.mm)
76		Mauwa Sayal feeder	53.35	15.2	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)
		Khasari Feeder	54.2	-	ACSR (RABBIT / WEASEL,) Covered conductor(100 sq.mm,55 sq.mm)
77		Badikedar Feeder	55.03	-	ACSR (RABBIT / WEASEL),Covered conductor(55 sq.mm)

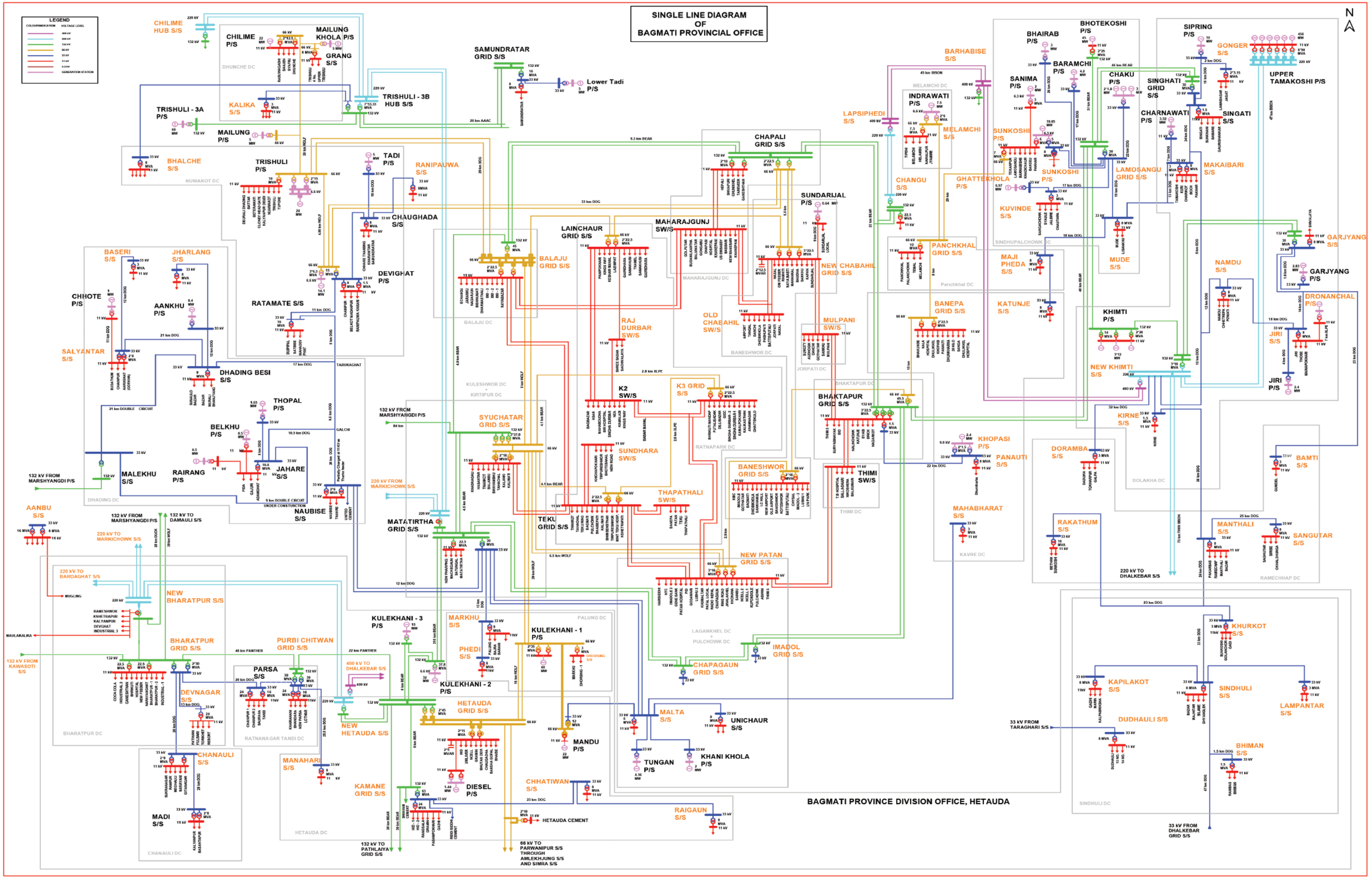
S.N.	Name of Distribution Center	Name of Feeder	Length of Feeder(km) upto 2081/082	Maximum load of 2081/082, Amp	Conductor Type
78	Darchula	Joljibi Feeder	120.02	27	ACSR (RABBIT,WEASEL)
79		Khalanga Bazar Feeder	14	50	ACSR (RABBIT / WEASEL) Cover Conductor
80		Gokuleshwor Feeder	107.92	57	ACSR (RABBIT / WEASEL) Cover Conductor
		Byansh Feeder	129.77	10	ACSR (RABBIT / WEASEL) Cover Conductor
		Baril Feeder	4.8	6	ACSR (RABBIT / WEASEL) Cover Conductor
		Marma Bajar	47.06	10	ACSR (RABBIT / WEASEL) Cover Conductor
81		Api Feeder	8	8	ACSR (RABBIT / WEASEL) Cover Conductor
82	Achham	Marku Feeder	57.24	20	ACSR (RABBIT/WEASEL)
83		Ramaroshan Feeder	74.81	38.18	ACSR (RABBIT/WEASEL)
84		Sanfe Feeder	132.42	102.9	ACSR (RABBIT/WEASEL)
		Kamalbazar Feeder	50.89	15	ACSR (RABBIT/WEASEL)
		Dhakari Feeder	19.83	6	ACSR (RABBIT / WEASEL) Cover Conductor
85		Tumrakhad Feeder	41.22	6	ACSR (RABBIT/WEASEL)
86	Bajhang DC	Bungal Feeder	25	20	ACSR (RABBIT)
87		Bithadchir Feeder	30	25	ACSR (RABBIT)
88		Deura Feeder	39	30	ACSR (RABBIT)
89		Supeda Feeder	114	28	ACSR (RABBIT)
90		BAZAR Feeder	81	45	ACSR (RABBIT)
91	Bajura	Martadi Kolti Feeder	64	0.7	ACSR (RABBIT / WEASEL) Cover Conductor
92		Budhiganga Khaptadchededaha Feeder	66.5	0.5	ACSR (RABBIT / WEASEL) Cover Conductor
93		Rajali Feeder	5	0.1	ACSR (RABBIT / WEASEL) Cover Conductor
94		Gaumul Feeder	14.5	0.1	ACSR (RABBIT / WEASEL) Cover Conductor

II. ELECTRICITY DISTRIBUTION NETWORK OF NEPAL




SINGLE LINE DIAGRAM
OF
MADHESH PROVINCIAL OFFICE
LEGEND
66 kV FROM HETAUDA S/S
132 kV FROM KAMANE S/S
132 kV FROM HETAUDA S/S
400 kV TO NEW HETAUDA S/S
220 kV FROM NEW KHIMTI S/S
132 kV TO TINGLA S/S
33 kV TO SINDHULI S/S AND BHIMAN S/S
400 kV TO MUZZAFFARPUR S/S (INDIA)
33 kV TO KATARI S/S
33 kV TO JALJALE S/S
400 kV TO NEW INARUWA S/S
132 kV TO DUHABI S/S
132 kV TO KUSAHA SW/S
SIMARA DC
AMLEKHGANJ GRID S/S
HETAUDA CEMENT
HULAS STEEL
JAGADAMBA STEEL
SIMARA GRID S/S
SHALIMAR CEMENT
SURYA NEPAL
ASHOK STEEL
JAGADAMBA ENTERPRISES
HAMA IRON
JAGADAMBA WIRE
PATHLAIYA GRID S/S
NIJGADH S/S
CHAPUR GRID S/S
CHAPUR DC
NAWALPUR GRID S/S
DHALKEBAR GRID S/S
SAKHUWA DC
MIRCHAIYA GRID S/S
MIRCHAIYA DC
LAHAN GRID S/S
LAHAN DC
RAJBIRAJ DC
RUPENI GRID S/S
BIRGUNJ DC
TRIVENI SPINNING MILL
HIMAL IRON
NARAYANI ESPAT
PARWANIPUR GRID S/S
SARBOTTAM STEEL
TRIVENI SYNTHETIC YARN
SEDAWA S/S
POKHARIYA GRID S/S
POKHARIYA S/S
POKHARIYA DC
KOLHABI S/S
HARNAHA GRID S/S
HARSHAHA S/S
GAUR DC
GAUR S/S
HARIPUR S/S
LALBANDI DC
KHAYARMARA S/S
BARDIBAS S/S
AURAHI S/S
GAUSHALA DC
HARIPURBA S/S UNDER CONSTRUCTION
BIRENDRA BAZAR S/S
DHANUSADHAM S/S
DHANUSHADHAM DC
BISHNUPUR S/S
SIRAHA DC
BHAGAWANPUR S/S
RAJBIRAJ S/S
BODEBARSAIN S/S
BODEBARSAIN DC
BARAHATHWA S/S
BARAHATHAWA DC
SALEMPUR CHOWK S/S UNDER CONSTRUCTION
LOHARPATTI GRID S/S
BALGANGA GRID S/S
KALAIYA S/S
KALAIYA DC
MAULAPUR S/S
MAULAPUR DC
MALANGAWA DC
MALANGWA S/S
DUMARIYA S/S
HARIPURWA S/S
PARAUL S/S
JALESHWOR S/S
JALESHWOR DC
MUJELIYA S/S
LOHANA S/S
JANAKPUR DC
YADUKUHA S/S
YADUKUHA DC
BALARDAHA S/S
BHARDAHA S/S
KANCHANPUR DC
CHHAPKAIYA S/S
SIMRAUNGADH S/S
SIMRAUNGADH DC
SUKHDEV CHOWK S/S UNDER CONSTRUCTION
33 kV FROM JAYANAGAR S/S (INDIA)
33 kV FROM KATAIYA S/S (INDIA)
33 kV FROM SURSANG S/S (INDIA)
33 kV FROM RAXAUAL S/S (INDIA)
132 kV DOUBLE CKT FROM RAXUAL S/S (INDIA)

SINGLE LINE DIAGRAM OF BAGMATI PROVINCIAL OFFICE



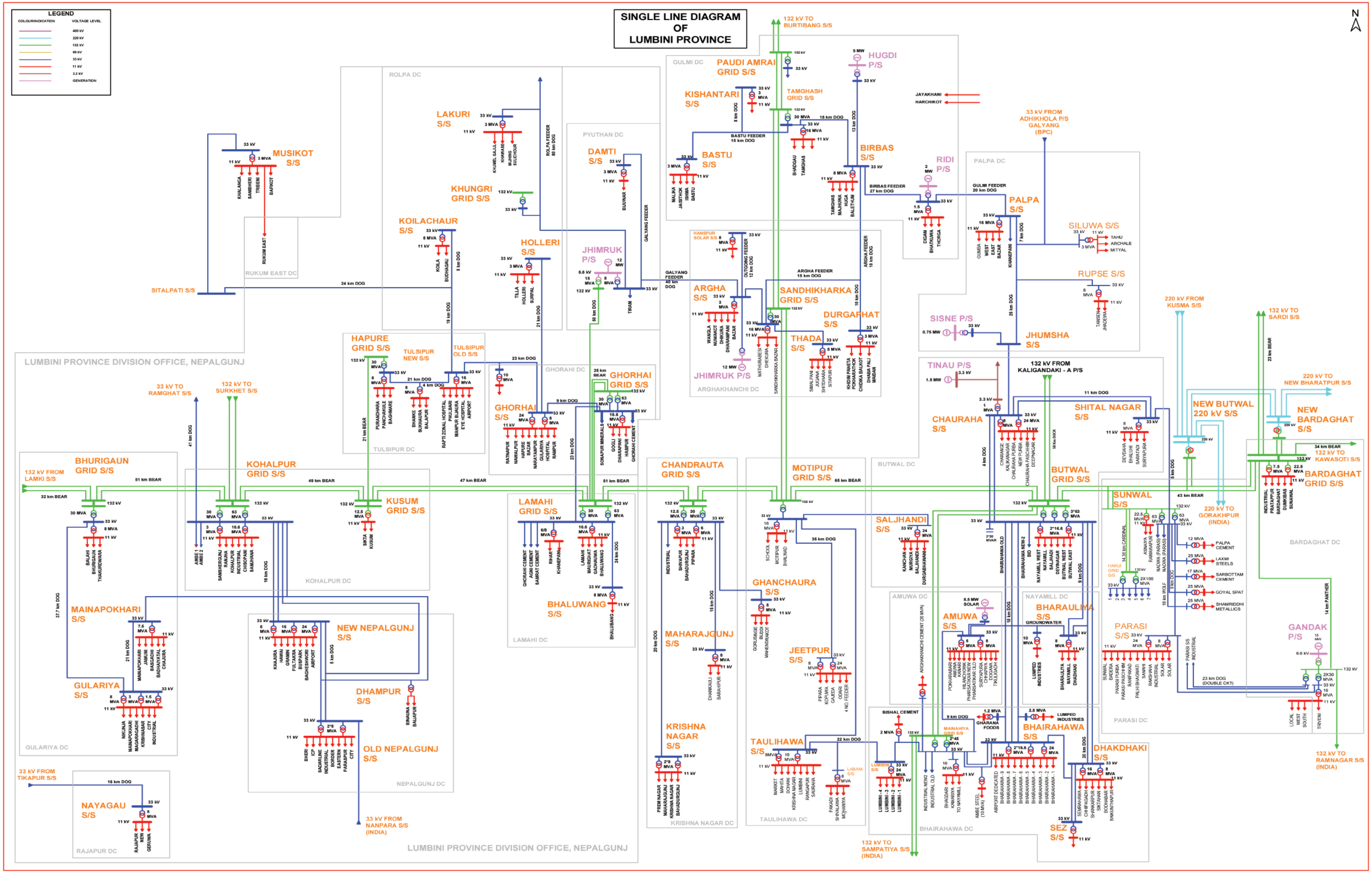
SINGLE LINE DIAGRAM OF GANDAKI PROVINCE

LEGEND

COLOUR/INDICATION	VOLTAGE LEVEL
	400 kV
	220 kV
	132 kV
	66 kV
	33 kV
	11 kV
	3.3 kV
	GENERATION

N

THAPAKHOLA P/S
KOBANG S/S
TATOPANI DC
DANA 220 kV S/S
DARBANG S/S
MILANCHOWK S/S
MYAGDI DC
NEW MODI SWITCHING
SARDI P/S
MARDI P/S
LAHACHOWK S/S
HEMJA S/S
POKHARA GRID S/S
LOWER MODI P/S
MODI P/S
MODI S/S
KUSMA S/S
LUNKHU S/S
PATI P/S
PARBAT DC
BAGLUNG DC
GALKOT S/S
BAGLUNG S/S
KHARBANG S/S
BURTIBANG GRID S/S
KUSMA 220 kV S/S
220 kV TO NEW BUTWAL S/S
132 kV FROM PAUDI AMRAI S/S
MADKHU P/S
MADI P/S
SINDHUBESI S/S
LEKHNATH GRID S/S
BIJAYAPUR P/S
BIRAUTA GRID S/S
LEKHATH DC
POKHARA DC
SABI P/S
CHAME P/S
THANACHOWK S/S(SYARKYU)
THANACHOWK 220 kV S/S
KHUDI 220 kV S/S
KHUDI P/S
UDIPUR DALAL
UDIPUR 220 kV S/S
KIRTIPUR S/S
SANGA P/S
UDIPUR S/S
LAMJUNG DC
RADHI P/S
UPPER SYANGE P/S
SIURI P/S
LOWER CHHYANGDI P/S
UPPER CHHYANGDI P/S
UPPER MARSYANGDI P/S
MIDDLE MARSYANGDI P/S
DARAUDI P/S
GORKHA S/S
MASEL S/S
CHIPLETI S/S
PALUNGTAR S/S
GORKHA DC
AARUGHAT DC
SALYANTAR S/S (DHADING)
BHORLETAR S/S
DAMAULI GRID S/S
KHAIRENITAR S/S
SETI S/S
DUMRE S/S
AANBU S/S
SARANGHAT S/S UNDER CONSTRUCTION
TANAHU DC
MARKICHOWK 220 kV S/S
220 kV TO MATATIRTHA S/S
220 kV TO NEW BHARATPUR S/S
MARSYANGDI P/S
132 kV TO SYUCHATAR GRID S/S
132 kV TO BHARATPUR GRID S/S
BADHKHOLA S/S
SYANGJA GRID S/S
KALIGANDAKI - A P/S
MIRMI S/S
ADHIKHOLA P/S GALYANG (BPC)
33 kV TO BUTWAL (BPC)
33 kV TO RAMPUR (BPC)
MIRDI S/S (BPC)
33 kV KEWARE FEEDER (BPC)
132 kV TO BUTWAL GRID S/S
SYANGJA DC
BOJHAPOKHARI S/S
132 kV FROM BARDAGHAT GRID S/S
SARDI S/S
KAWASOTI S/S
KAWASOTI GRID S/S
MUKUNDAPUR S/S
KAWASOTI DC



SINGLE LINE DIAGRAM OF LUMBINI PROVINCE
LEGEND
COLOUR/INDICATION
VOLTAGE LEVEL
400 kV
220 kV
132 kV
66 kV
33 kV
11 kV
3.3 kV
GENERATION
LUMBINI PROVINCE DIVISION OFFICE, NEPALGUNJ
MUSIKOT S/S
SITALPATI S/S
RUKUM EAST DC
ROLPA DC
LAKURI S/S
KHUNGRI GRID S/S
KOILACHAUR S/S
HOLLERI S/S
PYUTHAN DC
DAMTI S/S
JHIMRUK P/S
GALYANG FEEDER
GULMI DC
PAUDI AMRAI GRID S/S
KISHANTARI S/S
TAMGHASH GRID S/S
BASTU S/S
HUGDI P/S
BIRBAS S/S
RIDI P/S
JAYAKHANI
HARCHIKOT
33 kV FROM ADHIKHOLA P/S GALYANG (BPC)
PALPA DC
PALPA S/S
SILUWA S/S
RUPSE S/S
SISNE P/S
JHUMSHA S/S
ARGHA S/S
SANDHIKHARKA GRID S/S
DURGAPHAT S/S
THADA S/S
JHIMRUK P/S
ARGHAKHANCHI DC
132 kV TO BURTIBANG S/S
HAPURE GRID S/S
TULSIPUR NEW S/S
TULSIPUR OLD S/S
TULSIPUR DC
GHORAHI DC
GHORAHI GRID S/S
GHORAHI S/S
33 kV TO RAMGHAT S/S
132 kV TO SURKHET S/S
TINAU P/S
132 kV FROM KALIGANDAKI - A P/S
CHAURAHA S/S
SHITAL NAGAR S/S
220 kV FROM KUSMA S/S
NEW BUTWAL 220 kV S/S
132 kV TO SARDI S/S
220 kV TO NEW BHARATPUR S/S
NEW BARDAGHAT S/S
132 kV TO KAWASOTI S/S
BARDAGHAT GRID S/S
BHURIGAUN GRID S/S
132 kV FROM LAMKI S/S
KOHALPUR GRID S/S
KOHALPUR DC
KUSUM GRID S/S
LAMAHI GRID S/S
LAMAHI DC
BHALUWANG S/S
CHANDRAUTA GRID S/S
MOTIPUR GRID S/S
BUTWAL DC
BUTWAL GRID S/S
SUNWAL S/S
220 kV TO GORAKHPUR (INDIA)
BARDAGHAT DC
SALJHANDI S/S
GHANCHAURA S/S
MAHARAJGUNJ S/S
JEETPUR S/S
KRISHNA NAGAR S/S
KRISHNA NAGAR DC
TAULIHAWA S/S
TAULIHAWA DC
AMUWA DC
AMUWA S/S
NAYAMILL DC
BHARAULIYA S/S
PARASI S/S
PARASI DC
GANDAK P/S
BHAIRAHAWA S/S
BHAIRAHAWA DC
DHAKDHAKI S/S
SEZ S/S
132 kV TO SAMPATIYA S/S (INDIA)
132 kV TO RAMNAGAR S/S (INDIA)
MAINAPOKHARI S/S
GULARIYA S/S
GULARIYA DC
NEW NEPALGUNJ S/S
DHAMPUR S/S
OLD NEPALGUNJ S/S
NEPALGUNJ DC
33 kV FROM TIKAPUR S/S
NAYAGAU S/S
RAJAPUR DC
33 kV FROM NANPARA S/S (INDIA)
LUMBINI PROVINCE DIVISION OFFICE, NEPALGUNJ
N

SINGLE LINE DIAGRAM OF KARNALI PROVINCE

LEGEND

EXISTING	UNDER CONSTRUCTION	VOLTAGE LEVEL
		400 kV
		220 kV
		132 kV
		66 kV
		33 kV
		11 kV
		3.3 kV
		GENERATION
STATION	STATION	SUB STATION

N

NAUMULE IPPs
4.8 MW Padam Khola
3.75 MW Duwari Khola
4 MW Upper Lohore
33 kV

GAMGADH S/S
UNDER CONSTRUCTION
33 kV
3 MVA
11 kV
GAMGADH DC

KHALANGA S/S
33 kV
3 MVA
11 kV
JUMLA DC

63.5 km DOG
85 km DOG (Under Construction)
60 km DOG
10 km DOG
28km DOG
25 km DOG
17 km DOG

MANMA S/S
33 kV
3 MVA
11 kV
JUMLA
RAKAM
DOLPA
MARAHARINATH
KALIKOT DC

RAKAM S/S
UNDER CONSTRUCTION
33 kV
3 MVA
11 kV

DULLU S/S
33 kV
3 MVA
11 kV
DULLU
JAMMIKANDH

DAILEKH S/S
33 kV
8 MVA
11 kV
MAHABU
CHUPRA
BAZAR
BIESTADA

DAILEKH GRID S/S
132 kV
30 MVA
DAILEKH DC

TRIPURAKOT S/S
UNDER CONSTRUCTION
33 kV
3 MVA
11 kV
DOLPA DC

CHAUKHA S/S
33 kV
3 MVA
11 kV

KUDU S/S
33 kV
3 MVA
11 kV
RUKUM
KUDU
KHALANGA
SALYAN
JAJARKOT DC

RUKUMGAD IPP
5 MW
33 kV
RUKUM
KUDU
KHALANGA
SALYAN
RUKUM WEST DC

MUSIKOT S/S
33 kV
3 MVA
11 kV
KHALANGA
SANIBHERI
TRIBENI
RUKUM EAST
BAFIKOT

55 km DOG (Under Construction)
54.4 km DOG
55 km DOG
34 km DOG
0.6 km DOG

THARMARE S/S
33 kV
3 MVA
11 kV
KOTIMALA
BAFUKHOLA
SALYAN DC

SHITALPATI S/S
33 kV
8 MVA
11 kV
BARALA
KHALANGA
SHREENAGAR

46 km DOG
33 kV FROM TULSIPUR S/S

33 kV FROM KAMALBAZAR S/S (ACHHAM)

24 km DOG
14 km DOG

MATELA S/S
33 kV
3 MVA
11 kV
AALICHING
TATIKA
RAJENA

RAKAM S/S
33 kV
8 MVA
11 kV
1.5 MVA
BANGAD
RAKAM
SALLI
49 km DOG
49 km DOG

33 kV FROM LAMAKI GRID S/S (KAILALI)
45 km DOG

BABIYACHAUR S/S
33 kV
3 MVA
11 kV
BAZAR
GUTU

BUDBUDE S/S
33 kV
2*8 MVA
16 MVA
11 kV
PIPRA
TATOPANI
BULBULE
BAZAR

SURKHET GRID S/S
132 kV
30 MVA

29 km DOG

RAMGHAT S/S
33 kV
8 MVA
11 kV
HARRE
BHOTECHAUR

SURKHET DC

41 km DOG

132 kV FROM KOHALPUR GRID S/S

33 kV FROM KOHALPUR GRID S/S

SINGLE LINE DIAGRAM OF SUDUR PASCHIM PROVINCE

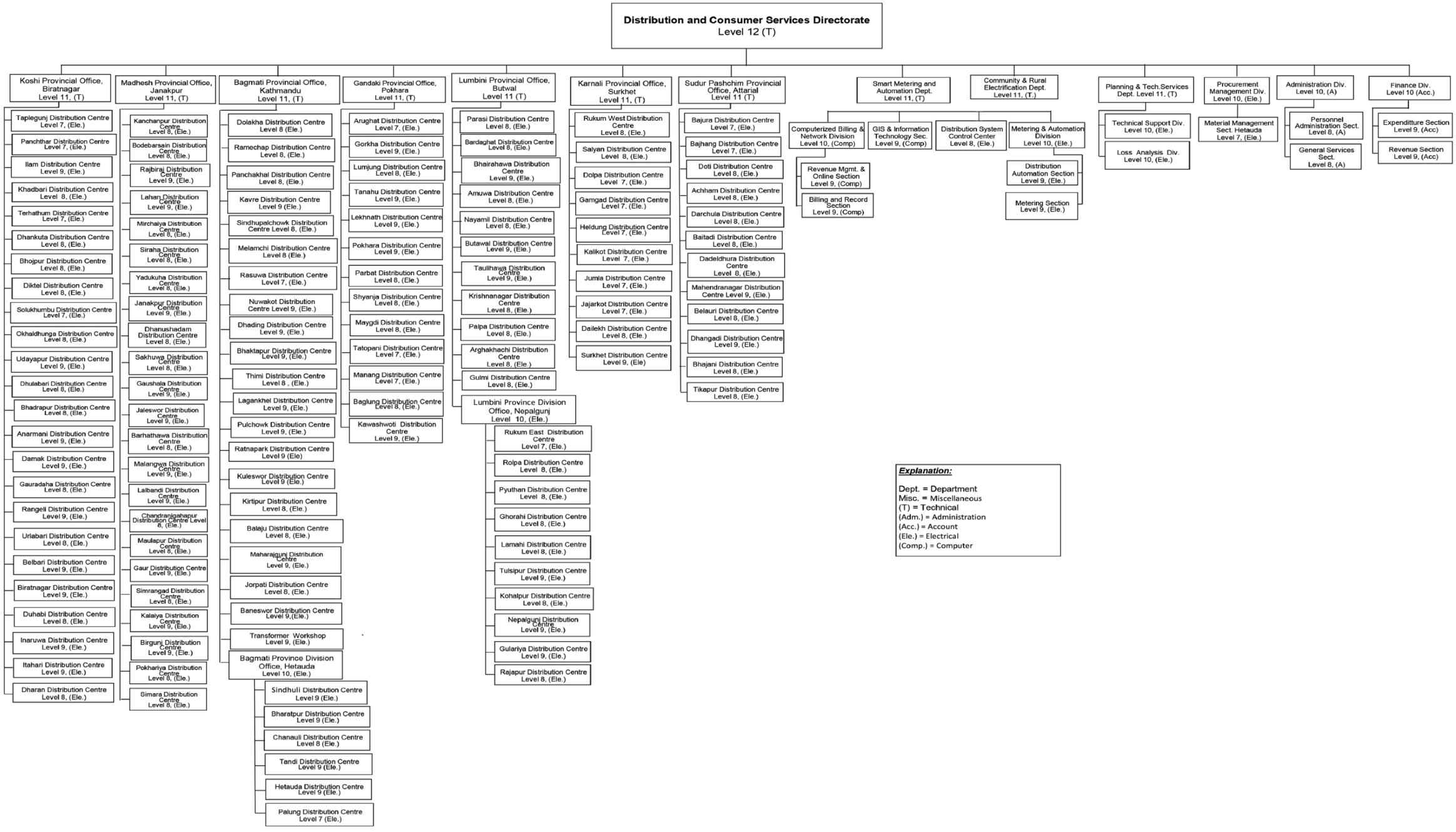
N

LEGEND

COLOUR/INDICATION	VOLTAGE LEVEL
	400 kV
	220 kV
	132 kV
	66 kV
	33 kV
	11 kV
	3.3 kV
	GENERATION STATION

CHAMELIYA P/S
32 MW
2*16 MVA
132 kV
BALANCH GRID S/S
NAWAGAD P/S
8 MW
33 kV
5 km DOG
10 MVA
33 kV
12 km DOG
3 MVA
11 kV
19.5 km DOG
THALIGAD S/S
33 kV
3 MVA
11 kV
25 km DOG
MARMA S/S
33 kV
6/8 MVA
11 kV
BAZAR JALJIBE BYAS
BARILPURCHALDI GOKULESHWOR
MARMA BAJURA
DARCHULA DC
34 km DOG
BIJGADA P/S
38.46 MW
BHAJANG DC
CHAINPUR S/S
33 kV
3 MVA
11 kV
18 km DOG
SUBEDA
CHAINPUR BAZAR
41 km DOG
44 km DOG
BAGTHALA S/S
33 kV
3 MVA
11 kV
BURGAL BITHADCHIR DEURA
BAJURA DC
MARTADI S/S
33 kV
5 MVA
11 kV
DHAMKANE MARTADI NAJAR FALYAAN GAUMUL
45 km DOG
BAITADI S/S
33 kV
3 MVA
11 kV
70 km BEAR
32 km DOG
PATAN BAJAR TRIPURA DOGADA KEDAR
BAITADI DC
MAUWA S/S
33 kV
3 MVA
11 kV
9 km DOG
DOTI DC
PIPALA S/S
33 kV
3 MVA
11 kV
8 MVA
11 kV
37 km DOG
SILGADHI RAJPUR DIPAYAL
29 km DOG
TIKHATAR S/S
33 kV
3 MVA
11 kV
ACHHAM S/S
33 kV
8 MVA
11 kV
40 km DOG
KAMAL BAJAR S/S
MARKU RAMAKOSHI SAIPE
KAMAL BAZAR TUMRAKHAD DHAKRI
ACHHAM DC
TO KARNALI PROVINCE
DADELDHURA S/S
33 kV
8 MVA
11 kV
19 km DOG
3 km DOG
132 kV
30 MVA
33 kV
8 MVA
11 kV
SYAULE GRID S/S
SAKAYEL S/S
33 kV
1.5 MVA
11 kV
41 km DOG
BAZAR CHAMUDA
SAKAYAL DOTI GHATAL BHATKADA
27 km DOG
DADELDHURA DC
BAGARKOT S/S
33 kV
1.5 MVA
11 kV
17 km DOG
JOGBUDA S/S
33 kV
3 MVA
11 kV
BADAMI BAZAR KATYAL
60 km BEAR
BUDAR S/S
33 kV
5 MVA
11 kV
JORAYAL JOGBUDA BUDAR BAZAR
DADELDHURA DC + DOTI DC
BADHEDAR BP NAGAR
3 MVA
11 kV
33 kV
14 km DOG
2 km DOG
33 kV
3.3 MW
BP NAGAR S/S
KAPADIGAD P/S
47 km DOG
132 kV FROM TANAKPUR S/S (INDIA)
LALPUR GRID S/S
12 km BEAR
38 km BEAR
132 kV
10 MVA
16 MVA
33 kV
7.5 MVA
11 kV
GADDACHOWKI S/S
33 kV
8 MVA
11 kV
6 km DOG
32 MVA
9 km DOG
17 km DOG
JHALARI S/S
24 MVA
BASHEDA BHRAMHADEV
ATTPUR BHASI BAZAR BANGAU
MAHENDRANAGAR S/S
DAU LALPUR
PIPLADI JHALARI BANI
MAHENDRANAGAR DC
6 km DOG
DODHARA CHADANI S/S
33 kV
5 MVA
11 kV
DODHARA CHADANI-1
DODHARA CHADANI-2
29 km DOG
BELAURI S/S
33 kV
24 MVA
11 kV
CALKATTA BELDANDI PIPARIBAS BELAURI
BELAURI DC
ATTARIYA GRID S/S
132 kV
2*30 MVA
33 kV
16.6 MVA
11 kV
51 km BEAR
GETA ATTARIYA CHAUMALA KRISHNAPUR
14 km DOG
DHANGADHI S/S
33 kV
24 MVA
8 MVA
11 kV
RAJPUR MANERA HASULIYA HANUMAN BHANSAR BELA
CHAUMALA S/S
33 kV
8 MVA
11 kV
23 km DOG
18 km DOG
RAJPUR CHAUMALA BANBEDA BATEGADHA
17 km DOG
HASULIYA S/S
33 kV
8 MVA
11 kV
HASULIYA FULBARI BASAUTI
DHANGADHI DC
PAHALWANPUR GRID S/S
132 kV
30 MVA
33 kV
8 MVA
11 kV
SUKUAD MASURIYA
JOSHIPUR S/S
33 kV
8 MVA
11 kV
11 km DOG
MUDDI JOSHIPUR BHALWARI LAKHARI
BHAJANI DC
LAMKI GRID S/S
132 kV
16 MVA
30 MVA
33 kV
16.6 MVA
11 kV
POLE FLART CHAMELIYA LAMKI BAJAR BALIYA JAGATPUR CHUHA
17 km DOG
TIKAPUR S/S
33 kV
16.6 MVA
11 kV
12 km DOG
TIKAPUR AMTARA DURGAULI RAJAPUR
TIKAPUR DC
132 kV TO BHURIGAON GRID S/S
33 kV TO BABIYACHAUR SURKHET
33 kV TO RAJAPUR S/S

III. ORGANIZATION STRUCTURE OF DISTRIBUTION AND CONSUMER SERVICES DIRECTORATE



Publication Focal Persons

Nanda Kishor Mandal
Community Rural Electrification Department

Dipesh Shrestha
Project Management Directorate

Pawan Kumar Gupta
Koshi Provincial Office

Binita Mandal
Madhesh Provincial Office

Sunil Subedi
Bagmati Provincial Office

Abinash Mahat
Bagmati Province Division Office

Krishna Prasad Panta
Gandaki Provincial Office

Ram Prasad Gyawali
Lumbini Provincial Office

Navaraj Adhikari
Lumbini Province Division Office

Bimal Prasad Sah
Karnali Provincial Office

Deepak Jung Chaudhary
Sudurpaschim Provincial Office

Publication Committee

Achyut Babu Ghimire
Director, Co-ordinator

Tek Nath Tiwari
Director, Member

Dolnath Kandel
Joint Director, Member

Sadhav Bhandari
Joint Director, Member

Dhirendra Kumar Yadav
Manager, Member

Milana Prajapati
Engineer, Member

Dil Kumar Manandhar
Engineer, Member

Prabin Dhakal
Engineer, Member

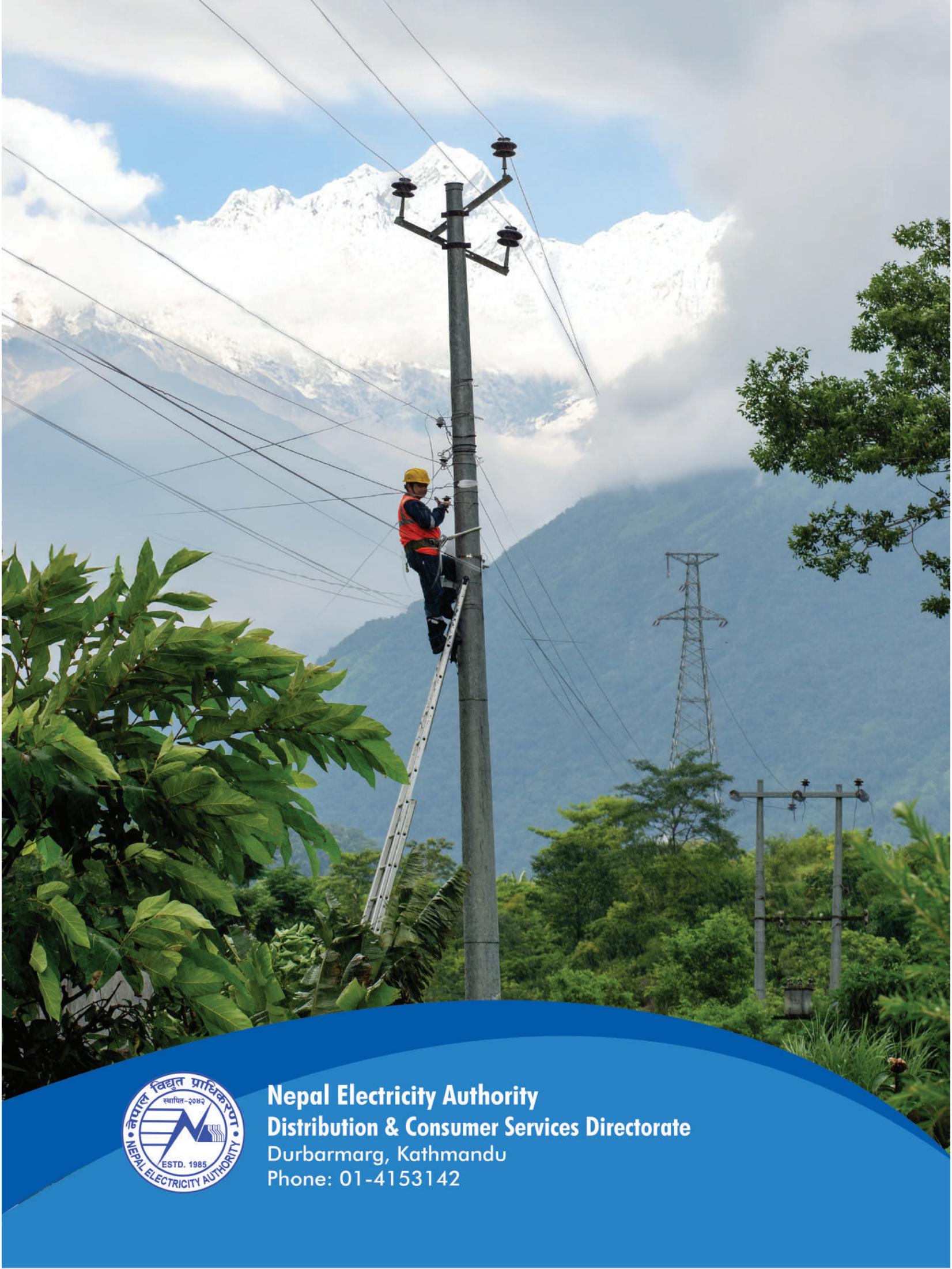
Lal Bahadur Budha
Engineer, Member

Ramu Shrestha
Asst. Manager, Member Secretary

Ground Breaking Ceremony of Solar Promotion Project at Middle Marsyangdi HEP Dam Site

33/11 kV, 8 MVA Tute substation, Tehrathum

Cover & Back Cover Photo: 11 kV line maintenace work at Lamjung DC.
Image Icon: LT line maintenace work at Dailekh DC.



Nepal Electricity Authority
Distribution & Consumer Services Directorate
Durbarmarg, Kathmandu
Phone: 01-4153142