

Nepal Recharge Gateway API Reference

Authoritative developer documentation for high-throughput mobile top-ups, DTH satellite television, high-speed fiber internet renewals, utilities, and Indian cross-border recharge services.

Supported Rails & Operator Capabilities

Nepal Mobile	Ncell, Nepal Telecom (NTC Prepaid & Postpaid), Smartcell (Defunct)
Nepal DTH & Cable	Dish Home, SIM TV, Mero TV, Clear TV, Sky TV, Net TV, Prabhu TV, Max TV
Nepal Fiber Internet	WorldLink, Vianet, Subisu, NT FTTH, Websurfer, TechMinds, Classic Tech
Nepal Utilities	Nepal Electricity Authority (NEA - 2-step due check & pay), Khanepani Water
India Telecom & DTH	Jio, Airtel, Vodafone-Idea (Vi), BSNL, Tata Play DTH (Direct INR recharge)
Security & Webhooks	Token-based authentication (x-auth-token), HMAC-SHA256 signatures, Server-side price lock

Security & Legal Classification

This document contains proprietary and confidential information of Nepal Recharge. Unauthorized duplication, dissemination, or reverse engineering of the endpoints, schemas, or security tokens described herein is strictly prohibited.

BASE ENDPOINT

https://nepalrecharge.com/api/v1/

AUTH SCHEME

x-auth-token (API Key)

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1. Architecture & Authentication

Nepal Recharge provides an enterprise-grade RESTful API designed for high-throughput telecommunication refills and utility bill payments across Nepal and India.

Canonical Base URL

PRODUCTION BASE URL

`https://nepalrecharge.com/api/v1/`

Endpoint Strictness: All API traffic **MUST** be directed to `/api/v1/{resource}`. Requests sent without `/v1/` or with duplicate segments will receive HTTP 421 `INVALID_ENDPOINT`.

Authentication Header

Every request must supply your production API Key in the `x-auth-token` header (or as `Authorization: Bearer <token>`):

MANDATORY HEADERS

```
x-auth-token: npr_live_YOUR_PRODUCTION_API_KEY
Content-Type: application/json
Accept: application/json
```

Rate Limiting & Concurrency

TIER	RATE LIMIT	WINDOW	HTTP HEADERS RETURNED
Standard Sandbox	60 requests	1 minute	<code>X-RateLimit-Limit</code> , <code>X-RateLimit-Remaining</code>
Production Tier	120 requests	1 minute	<code>X-RateLimit-Limit</code> , <code>X-RateLimit-Remaining</code>
Enterprise Dedicated	500+ requests	1 minute	Custom negotiated per SLA

Standard JSON Success & Error Envelopes

STANDARD SUCCESS ENVELOPE (HTTP 200 OK)

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "The action has been successfully performed.",
  "data": { ... }
}
```

STANDARD ERROR ENVELOPE (HTTP 4XX / 5XX)

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "VALIDATION_FAILED",
  "message": "The connection_no field is required.",
  "data": []
}
```

2. Nepal Mobile Recharge

Direct airtime top-up for prepaid and postpaid mobile numbers across Nepal.

Mobile Operator Identifiers

OPERATOR NAME	OPERATOR_ID	OPERATOR_TYPE_ID	PREFIX	MIN / MAX (NPR)
Ncell	1	1	980, 981, 982	10.00 – 5,000.00
NTC Prepaid	5	1	984, 986, 974, 976	10.00 – 5,000.00
NTC Postpaid	6	1	985	100.00 – 10,000.00
NTC CDMA	7	1	972, 975	50.00 – 2,000.00
Smartcell	15	1	961, 962, 988	Defunct / Suspended

Endpoint: Execute Mobile Recharge

POST /api/v1/np/recharge/execute

FIELD	TYPE	REQUIRED	DESCRIPTION
operator_id	integer	REQUIRED	Operator ID (1 for Ncell, 5 for NTC Prepaid, 6 for Postpaid).
operator_type_id	integer	REQUIRED	Must be strictly 1 for Mobile Top-up.
connection_no	string	REQUIRED	10-digit mobile number matching carrier prefix.
amount	numeric	REQUIRED	Recharge value in NPR (e.g. 100.00).
reference_no	string	REQUIRED	Merchant unique transaction reference for idempotency.

Request (cURL)

POST /API/V1/NP/RECHARGE/EXECUTE

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 1,
    "operator_type_id": 1,
    "connection_no": "9801234567",
    "amount": 100.00,
    "reference_no": "ORD-20261001-90124"
  }'
```

Success Response (HTTP 200 OK)

200 OK • PAYMENT SUCCESSFUL

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Payment processed successfully.",
  "data": {
    "transaction_id": "NPR20261001091001",
    "reference_no": "ORD-20261001-90124",
    "operator": "Ncell",
    "operator_id": 1,
    "connection_no": "9801234567",
    "amount": 100.00,
    "fee": 0.00,
    "total_debited": 100.00,
    "balance_before": 15000.00,
    "balance_after": 14900.00,
    "status": "SUCCESS",
    "ref_stan": "1002938475",
    "created_at": "2026-10-01T07:45:00+05:45"
  }
}
```

Error Response (HTTP 422 Prefix Mismatch)

422 UNPROCESSABLE ENTITY • PREFIX MISMATCH

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "OPERATOR_PREFIX_MISMATCH",
  "message": "Mobile number 9841234567 is not a valid Ncell number. Expected prefix 980, 981, or 982.",
  "data": []
}
```

3. Nepal DTH & Cable TV Recharge

DTH recharge uses a **2-step verification workflow**: first querying customer validity and package options via `POST /api/v1/np/recharge/package`, then executing the chosen plan via `POST /api/v1/np/recharge/execute`.

Supported DTH Operators

OPERATOR NAME	OPERATOR_ID	TYPE ID	IDENTIFIER FORMAT	SAMPLE CONNECTION NO
Dish Home	36	2	CAS ID / Smart Card (11 digits)	02548963214
SIM TV	37	2	Smart Card / STB ID	1000293841
Mero TV	38	2	Subscriber Chip No	8829102938
Sky TV	39	2	Customer Account ID	SKYT-99214
Clear TV	40	2	STB CAS ID (11 digits)	01129384751
Prabhu TV	41	2	STB / Smart Card ID	PRB-102938
Max TV	43	2	Connection / STB No	MAX-771234
Net TV	100	2	User ID / Username	nettv_user_01

Step 1: DTH Package & Customer Inquiry API

POST `/api/v1/np/recharge/package`

Validates subscriber active status, retrieves current dues, and returns renewal options cached in `package_details`.

FIELD	TYPE	REQUIRED	DESCRIPTION
<code>operator_id</code>	integer	REQUIRED	DTH operator ID (e.g. <code>36</code> for Dish Home).
<code>operator_type_id</code>	integer	REQUIRED	Must be strictly <code>2</code> for DTH services.
<code>connection_no</code>	string	REQUIRED	Customer Smart Card, CAS ID, or STB number.
<code>reference_no</code>	string	REQUIRED	Unique merchant reference string (used across Step 1 & 2).

Step 1 Request (cURL)

POST /API/V1/NP/RECHARGE/PACKAGE

```
curl --request POST \
--url https://nepalrecharge.com/api/v1/np/recharge/package \
--header 'Content-Type: application/json' \
--header 'x-auth-token: npr_live_YOUR_API_KEY' \
--data '{
  "operator_id": 36,
  "operator_type_id": 2,
  "connection_no": "02548963214",
  "reference_no": "DTH-ORD-88192"
}'
```

Step 1 Success Response (HTTP 200 OK)

200 OK • PACKAGES RETRIEVED

```
{
  "error": false,
  "message": "The action has been successfully performed.",
  "data": {
    "operator_id": "36",
    "connection_no": "02548963214",
    "reference_no": "DTH-ORD-88192",
    "session_id": "99381024",
    "packages": {
      "customer": null,
      "address": null,
      "message": "Dish Home CAS Account 02548963214",
      "bill": 600,
      "options": [
        { "id": 2001, "name": "Basic HD Monthly Package (1 Month)", "amount": 600 },
        { "id": 2002, "name": "Premium HD Combo (1 Month)", "amount": 800 },
        { "id": 2003, "name": "Super HD Yearly Package (12 Months)", "amount": 7200 }
      ]
    }
  }
}
```

Step 1 Error Response (HTTP 422 Invalid CAS)**422 UNPROCESSABLE ENTITY • INVALID CAS**

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "INVALID_SUBSCRIBER_ACCOUNT",
  "message": "The CAS ID / Smart Card number was not found or is deactivated in Dish Home gateway.",
  "data": { "operator_id": "36", "connection_no": "02548963214", "reference_no": "DTH-ORD-88192" }
}
```

Step 2: Execute DTH Payment API**POST** /api/v1/np/recharge/executeSends verified `package_id` and exact `amount`. Validated against server-side cache in `package_details`.

FIELD	TYPE	REQUIRED	DESCRIPTION
<code>operator_id</code>	integer	REQUIRED	DTH operator ID (e.g. <code>36</code>).
<code>operator_type_id</code>	integer	REQUIRED	Must be <code>2</code> for DTH services.
<code>connection_no</code>	string	REQUIRED	Same Smart Card / CAS ID verified in Step 1.
<code>package_id</code>	integer	REQUIRED	Selected package ID from Step 1 options (e.g. <code>2001</code>).
<code>amount</code>	numeric	REQUIRED	Exact amount matching the package in NPR (e.g. <code>600.00</code>).
<code>reference_no</code>	string	REQUIRED	The identical <code>reference_no</code> used during package inquiry.

Step 2 Request (cURL)**POST /API/V1/NP/RECHARGE/EXECUTE**

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 36,
    "operator_type_id": 2,
    "connection_no": "02548963214",
    "package_id": 2001,
    "amount": 600.00,
    "reference_no": "DTH-ORD-88192"
  }'
```

Step 2 Success Response (HTTP 200 OK)**200 OK • PAYMENT SUCCESSFUL**

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Payment processed successfully.",
  "data": {
    "transaction_id": "NPR20261001091244",
    "reference_no": "DTH-ORD-88192",
    "operator": "Dish Home",
    "operator_id": 36,
    "operator_type": "DTH",
    "connection_no": "02548963214",
    "package_id": 2001,
    "package_name": "Basic HD Monthly Package (1 Month)",
    "amount": 600.00,
    "fee": 0.00,
    "total_debited": 600.00,
    "balance_before": 15000.00,
    "balance_after": 14400.00,
    "status": "SUCCESS",
    "ref_stan": "9812401923",
    "created_at": "2026-10-01T07:49:15+05:45"
  }
}
```

Step 2 Error Response (HTTP 422 Price Tampering Blocked)**422 UNPROCESSABLE ENTITY • AMOUNT MISMATCH**

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "AMOUNT_MISMATCH",
  "message": "Submitted amount NPR 500.00 does not match authoritative package cost NPR 600.00 for package_id 2001.",
  "data": []
}
```

DTH Validation Errors & Anti-Tampering Standards

ERROR CODE	HTTP STATUS	TRIGGER CAUSE & SOLUTION
PACKAGE_ID_REQUIRED	422	Missing <code>package_id</code> . DTH requires choosing a plan from Step 1 inquiry.
PACKAGE_NOT_FOUND	422	Submitted <code>package_id</code> does not exist for this operator or session expired.
AMOUNT_MISMATCH	422	Request <code>amount</code> differs from package catalog. Price changes are rejected.
INSUFFICIENT_BALANCE	402	Merchant wallet funds are lower than package price. Top up wallet.

4. Voice & Data Packs Catalog Flow

A dedicated gateway for activating Internet Data Packs, Unlimited Voice Combos, and SMS bundles for Ncell and Nepal Telecom subscribers.

Voice & Data Operators (Type ID: 3)

SERVICE NAME	OPERATOR_ID	OPERATOR_TYPE_ID	SERVICE CODE	CATALOG TYPE
Ncell Data	2	3	3	Data Packs (1GB, 5GB, 10GB, Unlimited)
Ncell Voice	3	3	4	Voice Packs (All-Net, On-Net Mins)
Ncell SMS	4	3	6	SMS Packs (100, 500 SMS)
NTC Data	8	3	10	NTC 4G/LTE Data Bundles
NTC Voice	9	3	11	NTC Voice Bundles
NTC Recommended	10	3	12	Sajilo / Combo Packs

Step 1: Fetch Available Pack Options

POST /api/v1/np/recharge/package

POST /API/V1/NP/RECHARGE/PACKAGE

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/package \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 2,
    "operator_type_id": 3,
    "connection_no": "9801234567",
    "reference_no": "DATA-INQ-1092"
  }'
```

Step 1 Response (HTTP 200 OK)

200 OK • PACKS CATALOG

```
{
  "error": false,
  "message": "The action has been successfully performed.",
  "data": {
    "connection_no": "9801234567",
    "operator_id": "2",
    "operator_type_id": "3",
    "reference_no": "DATA-INQ-1092",
    "packages": [
      { "id": "105", "name": "5GB 7-Days Data Pack", "amount": 249, "validity": "7days" },
      { "id": "106", "name": "14GB 28-Days Mega Pack", "amount": 599, "validity": "28days" }
    ]
  }
}
```

Step 2: Execute Pack Activation

POST /api/v1/np/recharge/execute

POST /API/V1/NP/RECHARGE/EXECUTE

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 2,
    "operator_type_id": 3,
    "connection_no": "9801234567",
    "package_id": 105,
    "amount": 249.00,
    "reference_no": "DATA-ORD-11029"
  }'
```

Step 2 Response (HTTP 200 OK)

200 OK • PACK ACTIVATED

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Payment processed successfully.",
  "data": {
    "transaction_id": "NPR20261001091300",
    "reference_no": "DATA-ORD-11029",
    "operator": "Ncell Data",
    "connection_no": "9801234567",
    "package_id": "105",
    "package_name": "56B 7-Days Data Pack",
    "amount": 249.00,
    "status": "SUCCESS",
    "ref_stan": "4910293847",
    "created_at": "2026-10-01T07:46:12+05:45"
  }
}
```

5. Nepal Landline Telephone Payments

Nepal Telecom PSTN, NTFTH Voice, and Toll-free numbers are processed via direct execution without requiring prior bill inquiry tokens.

Number Format & Digit Length Rules

Strict Digit Length Validation: Landline operators enforce exact digit length rules. Passing leading zeroes on PSTN landlines or incorrect lengths will result in HTTP 422 `INVALID_CONNECTION_NO`.

SERVICE NAME	OPERATOR_ID	REQUIRED DIGITS	RULE & EXAMPLE FORMAT
NTC Landline (PSTN)	11	8 digits	Exclude leading 0, include area code. E.g. Kathmandu 01-4221234 → send 14221234 .
NTFTTH Voice	101	9 digits	Send exactly 9 digits including area code prefix. E.g. send 015970123 .
NTC Tollfree	117	11 digits	Standard 11-digit toll-free service number. E.g. send 16600123456 .

Endpoint: Execute Landline Bill Payment

POST /api/v1/np/recharge/execute

Request (cURL)

POST /API/V1/NP/RECHARGE/EXECUTE

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 11,
    "operator_type_id": 4,
    "connection_no": "14221234",
    "amount": 500.00,
    "reference_no": "LL-ORD-33921"
  }'
```

Success Response (HTTP 200 OK)

200 OK • LANDLINE PAYMENT CONFIRMED

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Payment processed successfully.",
  "data": {
    "transaction_id": "NPR20261001091410",
    "reference_no": "LL-ORD-33921",
    "operator": "NTC Landline",
    "operator_id": 11,
    "connection_no": "14221234",
    "amount": 500.00,
    "fee": 0.00,
    "total_debited": 500.00,
    "balance_before": 15000.00,
    "balance_after": 14500.00,
    "status": "SUCCESS",
    "ref_stan": "7719203910",
    "created_at": "2026-10-01T07:47:00+05:45"
  }
}
```

Error Response (HTTP 422 Invalid Digit Length)

422 UNPROCESSABLE ENTITY • INVALID DIGITS

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "INVALID_CONNECTION_NO",
  "message": "NTC Landline requires strictly 8 digits without leading zero. Received '014221234' (9 digits). Did you mean '14221234'?",
  "data": []
}
```

6. High-Speed Internet & Fiber ISPs

Nepal Recharge provides real-time account verification and plan renewal for over 70 internet service providers across Nepal, including WorldLink, Vianet, Subisu, NT FTTH, Websurfer, and Classic Tech.

Key Architecture Standard (No bill_token required):

Unlike electricity or water utility bills, Internet renewals **DO NOT require a** `bill_token`. In Step 1 (`POST /api/v1/np/recharge/package`), packages are discovered and cached server-side tied to your `reference_no` in `package_details`. In Step 2 (`POST /api/v1/np/recharge/execute`), pass the SAME `reference_no` along with the chosen `package_id` and exact `amount`.

Major Supported ISP Operators

ISP NAME	OPERATOR_ID	TYPE ID	CUSTOMER USERNAME FORMAT	SAMPLE CONNECTION NO
WorldLink	20	5	PPPoE Username / Account ID	wlink_user_882
Vianet	21	5	Customer ID / Username	vianet_cust_101
Subisu	19	5	Subisu Account / Username	subisu_acc_554
NT FTTH Internet	17	5	Fiber Account Number	ftth_014221234
Websurfer	22	5	Customer Username	ws_user_449
TechMinds	23	5	Customer Username	tm_user_119
Classic Tech	24	5	Customer Username	ct_user_883
Pokhara Internet	25	5	Account Number	pkr_net_331

Step 1: ISP Package Inquiry API

POST `/api/v1/np/recharge/package` (alias: `/api/v1/np/internet/package`)

Queries ISP upstream server to retrieve subscriber status, bill due amount, expiration date, and available renewal plan options.

FIELD	TYPE	REQUIRED	DESCRIPTION
<code>operator_id</code>	integer	REQUIRED	ISP Operator ID (e.g. 20 for WorldLink, 21 for Vianet).
<code>operator_type_id</code>	integer	REQUIRED	Must be strictly 5 for Internet providers.
<code>connection_no</code>	string	REQUIRED	PPPoE Username, Customer ID, or Account Number.
<code>reference_no</code>	string	REQUIRED	Unique merchant tracking reference string.

Step 1 Request (cURL)

POST `/API/V1/NP/RECHARGE/PACKAGE`

```
curl --request POST \
--url https://nepalrecharge.com/api/v1/np/recharge/package \
--header 'Content-Type: application/json' \
--header 'x-auth-token: npr_live_YOUR_API_KEY' \
--data '{
  "operator_id": 20,
  "operator_type_id": 5,
  "connection_no": "wlink_user_882",
  "reference_no": "NET-ORD-77123"
}'
```

Step 1 Success Response (HTTP 200 OK)

200 OK • ISP PACKAGES RETRIEVED

```
{
  "error": false,
  "message": "The action has been successfully performed.",
  "data": {
    "operator_id": "20",
    "connection_no": "wlink_user_882",
    "reference_no": "NET-ORD-77123",
    "session_id": "782910384",
    "expiry_date": "2026-10-15",
    "packages": {
      "customer": null,
      "address": null,
      "message": "Payment for WorldLink account wlink_user_882",
      "bill": 1250,
      "expiry_date": "2026-10-15",
      "options": [
        { "id": 101, "name": "100 Mbps Unlimited Fiber Internet - 1 Month", "amount": 1250 },
        { "id": 102, "name": "200 Mbps Unlimited Fiber Internet - 3 Months", "amount": 3500 },
        { "id": 103, "name": "300 Mbps Dual Band Unlimited - 12 Months", "amount": 13500 }
      ]
    }
  }
}
```

Step 1 Error Response (HTTP 422 User Not Found)**422 UNPROCESSABLE ENTITY • SUBSCRIBER NOT FOUND**

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "SUBSCRIBER_NOT_FOUND",
  "message": "The username 'wlink_user_882' does not exist in WorldLink subscriber database.",
  "data": { "operator_id": "20", "connection_no": "wlink_user_882", "reference_no": "NET-ORD-77123" }
}
```

Step 2: Execute Internet Renewal API**POST** /api/v1/np/recharge/executeSends verified `package_id`, exact `amount`, and matching `reference_no`.

FIELD	TYPE	REQUIRED	DESCRIPTION
<code>operator_id</code>	integer	REQUIRED	ISP Operator ID (e.g. <code>20</code>).
<code>operator_type_id</code>	integer	REQUIRED	Must be <code>5</code> for Internet providers.
<code>connection_no</code>	string	REQUIRED	PPPoE Username / Customer Account ID.
<code>package_id</code>	integer	REQUIRED	Selected package ID from Step 1 (e.g. <code>101</code>).
<code>amount</code>	numeric	REQUIRED	Exact renewal amount in NPR (e.g. <code>1250.00</code>).
<code>reference_no</code>	string	REQUIRED	The identical <code>reference_no</code> supplied in Step 1.

Step 2 Request (cURL)**POST /API/V1/NP/RECHARGE/EXECUTE**

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 20,
    "operator_type_id": 5,
    "connection_no": "wlink_user_882",
    "package_id": 101,
    "amount": 1250.00,
    "reference_no": "NET-ORD-77123"
  }'
```

Step 2 Success Response (HTTP 200 OK)**200 OK • FIBER INTERNET RENEWED**

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Payment processed successfully.",
  "data": {
    "transaction_id": "NPR20261001091512",
    "reference_no": "NET-ORD-77123",
    "operator": "WorldLink",
    "operator_id": 20,
    "operator_type": "Internet",
    "connection_no": "wlink_user_882",
    "package_id": 101,
    "package_name": "100 Mbps Unlimited Fiber Internet - 1 Month",
    "amount": 1250.00,
    "fee": 0.00,
    "total_debited": 1250.00,
    "balance_before": 14400.00,
    "balance_after": 13150.00,
    "status": "SUCCESS",
    "ref_stan": "8829103941",
    "created_at": "2026-10-01T07:50:00+05:45"
  }
}
```

Step 2 Error Response (HTTP 422 Amount Mismatch)**422 UNPROCESSABLE ENTITY • AMOUNT MISMATCH**

```
{
  "error": true,
  "status": "FAILED",
  "response_code": "422",
  "error_code": "AMOUNT_MISMATCH",
  "message": "Submitted amount NPR 1000.00 does not match authoritative package cost NPR 1250.00 for package_id 101.",
  "data": []
}
```

Internet Renewal Validation & Error Standards

ERROR CODE	HTTP STATUS	MEANING & DEVELOPER RESOLUTION
PACKAGE_ID_REQUIRED	422	<code>package_id</code> was omitted. Query plans first via <code>/np/recharge/package</code> .
AMOUNT_MISMATCH	422	Submitted <code>amount</code> differs from package cost. Client tampering is rejected.
CONNECTION_NO_REQUIRED	422	Missing subscriber username / account ID.
OPERATOR_TIMEOUT	504	ISP gateway timed out (>60s). Check status via <code>/np/recharge/status-by-ref</code> .
INSUFFICIENT_BALANCE	402	Merchant wallet balance is lower than renewal package amount.

7. NEA Nepal Electricity Authority

Electricity payments require mandatory 2-step verification: first inspecting bill dues to obtain a `bill_token`, followed by executing the payment using the token.

Step 1: Bill Due Inspection

POST `/api/v1/np/electricity/check` (or `/api/v1/np/recharge/check`)

FIELD	TYPE	REQUIRED	DESCRIPTION
<code>operator_id</code>	integer	REQUIRED	44 (NEA Electricity).
<code>operator_type_id</code>	integer	REQUIRED	Must be 6 for Electricity.
<code>sc_no</code>	string	REQUIRED	NEA Service Connection Number (e.g. 001.01.001).
<code>consumer_id</code>	string	REQUIRED	NEA Consumer ID (e.g. 20491).
<code>office_code</code>	string	REQUIRED	NEA Counter Code (e.g. 101 for Ratnapark).

Step 1 Request (cURL)

POST `/API/V1/NP/ELECTRICITY/CHECK`

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/electricity/check \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 44,
    "operator_type_id": 6,
    "sc_no": "001.01.001",
    "consumer_id": "20491",
    "office_code": "101"
  }'
```

Step 1 Response (Returns bill_token)

200 OK • BILL DUE VERIFIED

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Bill inquiry successful.",
  "data": {
    "customer_name": "RAMESH KUMAR SAH",
    "bill_amount": 1420.00,
    "rebate_amount": 42.60,
    "penalty_amount": 0.00,
    "total_amount": 1377.40,
    "bill_token": "NEA-SESSION-e9f82a1b7c3d4e5f",
    "session_expires_in": 900
  }
}
```

Step 2: Execute Electricity Bill Payment

POST `/api/v1/np/recharge/execute`

Step 2 Request (cURL)

POST `/API/V1/NP/RECHARGE/EXECUTE`

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator_id": 44,
    "operator_type_id": 6,
    "connection_no": "20491",
    "bill_token": "NEA-SESSION-e9f82a1b7c3d4e5f",
    "amount": 1377.40,
    "reference_no": "NEA-ORD-99120"
  }'
```

Step 2 Response (HTTP 200 OK)

200 OK • ELECTRICITY PAYMENT EXECUTED

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Electricity bill paid successfully.",
  "data": {
    "transaction_id": "NPR20261001091544",
    "reference_no": "NEA-ORD-99120",
    "operator": "NEA Electricity",
    "amount": 1377.40,
    "fee": 0.00,
    "total_debited": 1377.40,
    "status": "SUCCESS",
    "ref_stan": "5819203912",
    "created_at": "2026-10-01T07:49:00+05:45"
  }
}
```

8. Khanepani Drinking Water Utility

Community water supply payments across 400+ water user boards and counters in Nepal.

Step 1: Check Water Bill

POST /api/v1/np/water/check

FIELD	TYPE	REQUIRED	DESCRIPTION
operator_id	integer	REQUIRED	46 (Khanepani Drinking Water).
operator_type_id	integer	REQUIRED	Must be 7 for Drinking Water.
office_code	string	REQUIRED	Water counter code (e.g. 2001).
consumer_id	string	REQUIRED	Customer tap / connection number.

Step 1 Request (cURL)

POST /API/V1/NP/WATER/CHECK

```
curl --request POST \  
  --url https://nepalrecharge.com/api/v1/np/water/check \  
  --header 'Content-Type: application/json' \  
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \  
  --data '{  
    "operator_id": 46,  
    "operator_type_id": 7,  
    "office_code": "2001",  
    "consumer_id": "TAP-99021"  
  }'
```

Step 1 Response (Returns bill_token)

200 OK • WATER BILL DUES

```
{  
  "error": false,  
  "status": "SUCCESS",  
  "response_code": "000",  
  "data": {  
    "customer_name": "SITA DEVI SHRESTHA",  
    "counter_name": "Lalitpur Khanepani Board",  
    "bill_amount": 450.00,  
    "fine_amount": 0.00,  
    "total_due": 450.00,  
    "bill_token": "WATER-SESSION-4c8d1e2f"  
  }  
}
```

Step 2: Execute Water Bill Payment

POST /api/v1/np/recharge/execute

Step 2 Request (cURL)

POST /API/V1/NP/RECHARGE/EXECUTE

```
curl --request POST \  
  --url https://nepalrecharge.com/api/v1/np/recharge/execute \  
  --header 'Content-Type: application/json' \  
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \  
  --data '{  
    "operator_id": 46,  
    "operator_type_id": 7,  
    "connection_no": "TAP-99021",  
    "bill_token": "WATER-SESSION-4c8d1e2f",  
    "amount": 450.00,  
    "reference_no": "WAT-ORD-33829"  
  }'
```

Step 2 Success Response (HTTP 200 OK)

200 OK • WATER BILL SETTLED

```
{  
  "error": false,  
  "status": "SUCCESS",  
  "response_code": "000",  
  "message": "Water bill paid successfully.",  
  "data": {  
    "transaction_id": "NPR20261001091600",  
    "reference_no": "WAT-ORD-33829",  
    "operator": "Khanepani",  
    "amount": 450.00,  
    "ref_stan": "3391029384",  
    "status": "SUCCESS",  
    "created_at": "2026-10-01T07:49:30+05:45"  
  }  
}
```

9. Additional Nepal Discovery APIs

Dynamic catalog synchronization endpoints to discover active operators, office counters, and categories.

1. Operator Types Directory

GET /api/v1/np/operator-types

GET /API/V1/NP/OPERATOR-TYPES

```
curl --request GET \
  --url https://nepalrecharge.com/api/v1/np/operator-types \
  --header 'x-auth-token: npr_live_YOUR_API_KEY'
```

200 OK • OPERATOR TYPES

```
{
  "error": false,
  "status": "SUCCESS",
  "data": [
    { "id": 1, "name": "Mobile", "slug": "mobile" },
    { "id": 2, "name": "DTH", "slug": "dth" },
    { "id": 3, "name": "Data Pack", "slug": "data-pack" },
    { "id": 4, "name": "Landline", "slug": "landline" },
    { "id": 5, "name": "Internet", "slug": "internet" },
    { "id": 6, "name": "Electricity", "slug": "electricity" },
    { "id": 7, "name": "Khanepani", "slug": "khanepani" }
  ]
}
```

2. Active Operators Lookup

GET /api/v1/np/operators

GET /API/V1/NP/OPERATORS

```
curl --request GET \
  --url https://nepalrecharge.com/api/v1/np/operators \
  --header 'x-auth-token: npr_live_YOUR_API_KEY'
```

200 OK • OPERATORS CATALOG

```
{
  "error": false,
  "status": "SUCCESS",
  "data": [
    { "id": 1, "name": "Ncell", "operator_type_id": 1, "is_active": true },
    { "id": 5, "name": "NTC Prepaid", "operator_type_id": 1, "is_active": true },
    { "id": 20, "name": "WorldLink", "operator_type_id": 5, "is_active": true },
    { "id": 36, "name": "Dish Home", "operator_type_id": 2, "is_active": true },
    { "id": 44, "name": "NEA Electricity", "operator_type_id": 6, "is_active": true }
  ]
}
```

3. Utility Office Codes Directory

GET /api/v1/np/office-codes?operator_id=44

GET /API/V1/NP/OFFICE-CODES?OPERATOR_ID=44

```
curl --request GET \
  --url 'https://nepalrecharge.com/api/v1/np/office-codes?operator_id=44' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY'
```

200 OK • OFFICE CODES

```
{
  "error": false,
  "status": "SUCCESS",
  "data": [
    { "office_code": "101", "office_name": "Ratnapark DC", "district": "Kathmandu" },
    { "office_code": "102", "office_name": "Baneshwor DC", "district": "Kathmandu" },
    { "office_code": "103", "office_name": "Kuleshwar DC", "district": "Kathmandu" }
  ]
}
```

10. India Mobile & DTH Recharge

Recharge Indian prepaid cellular networks (Jio, Airtel, Vi, BSNL) and DTH (Tata Play) directly using Indian Rupees (INR).

Supported Indian Operators

OPERATOR NAME	SLUG	OP CODE	CATEGORY	VALIDATION PATTERN
Reliance Jio	jio-in	JIO	Mobile Cellular	10 digits (6, 7, 8, 9)
Bharti Airtel	airtel-in	AIRTEL	Mobile Cellular	10 digits (6, 7, 8, 9)
Vodafone Idea (Vi)	vi-in	VI	Mobile Cellular	10 digits (6, 7, 8, 9)
BSNL Prepaid	bsnl-in	BSNL	Mobile Cellular	10 digits (94, etc.)
Tata Play	tataplay-in	TATAPLAY	DTH Satellite TV	Subscriber ID (10 digits)

Endpoint: Execute Indian Recharge

POST /api/v1/in/recharge/execute

Request (cURL)

```
POST /API/V1/IN/RECHARGE/EXECUTE

curl --request POST \
  --url https://nepalrecharge.com/api/v1/in/recharge/execute \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "operator": "jio-in",
    "mobile_number": "9812345678",
    "amount": 299.00,
    "circle": "Delhi NCR",
    "reference_no": "IND-ORD-202610-8812"
  }'
```

Success Response (HTTP 200 OK)

```
200 OK • INDIAN TOPUP EXECUTED

{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "message": "Indian recharge successful.",
  "data": {
    "transaction_id": "INR20261001091722",
    "reference_no": "IND-ORD-202610-8812",
    "operator": "Reliance Jio",
    "mobile_number": "9812345678",
    "inr_amount": 299.00,
    "npr_debited": 478.40,
    "exchange_rate": 1.60,
    "status": "SUCCESS",
    "created_at": "2026-10-01T07:51:00+05:45"
  }
}
```

11. Developer Webhooks & HMAC-SHA256

Nepal Recharge dispatches asynchronous HTTP POST webhooks to notify your server when transactions finalize.

Incoming Webhook Payload Structure

WEBHOOK EVENT PAYLOAD (JSON)

```
{
  "event": "transaction.status_updated",
  "event_id": "evt_991204812",
  "timestamp": 1790820000,
  "data": {
    "transaction_id": "NPR20261001091001",
    "reference_no": "ORD-20261001-90124",
    "status": "SUCCESS",
    "response_code": "000",
    "amount": 100.00,
    "ref_stan": "1002938475"
  }
}
```

Signature Verification Header

Every webhook includes the `x-webhook-signature` header containing an HMAC-SHA256 hex digest of the raw request payload.

PHP Verification Code

PHP HMAC-SHA256 VERIFICATION

```
<?php
$payload = file_get_contents('php://input');
$signature = $_SERVER['HTTP_X_WEBHOOK_SIGNATURE'] ?? '';
$secret = 'whsec_YOUR_MERCHANT_SECRET';

$expected = hash_hmac('sha256', $payload, $secret);

if (!hash_equals($expected, $signature)) {
    http_response_code(401);
    exit('Invalid Webhook Signature');
}

// Process verified event
http_response_code(200);
echo json_encode(['received' => true]);
```

Node.js Verification Code

NODE.JS HMAC-SHA256 VERIFICATION

```
const crypto = require('crypto');

function verifyWebhook(req, res, next) {
  const signature = req.headers['x-webhook-signature'];
  const secret = process.env.WEBHOOK_SECRET;
  const hash = crypto.createHmac('sha256', secret)
    .update(req.rawBody)
    .digest('hex');

  if (crypto.timingSafeEqual(Buffer.from(hash), Buffer.from(signature))) {
    return next();
  }
  return res.status(401).send('Unauthorized Signature');
}
```

12. Transaction Status & Wallet Balance

Real-time reconciliation APIs for tracking transaction state by reference and monitoring credit balance.

1. Status Inquiry by Reference Number

POST /api/v1/np/recharge/status-by-ref

POST /API/V1/NP/RECHARGE/STATUS-BY-REF

```
curl --request POST \
  --url https://nepalrecharge.com/api/v1/np/recharge/status-by-ref \
  --header 'Content-Type: application/json' \
  --header 'x-auth-token: npr_live_YOUR_API_KEY' \
  --data '{
    "reference_no": "ORD-20261001-90124"
  }'
```

Status Response Example (HTTP 200 OK)

200 OK • TRANSACTION FOUND

```
{
  "error": false,
  "status": "SUCCESS",
  "response_code": "000",
  "data": {
    "transaction_id": "NPR20261001091001",
    "reference_no": "ORD-20261001-90124",
    "operator_name": "Ncell",
    "connection_no": "9801234567",
    "amount": 100.00,
    "fee": 0.00,
    "status": "SUCCESS",
    "ref_stan": "1002938475",
    "created_at": "2026-10-01T07:45:00+05:45"
  }
}
```

2. Real-Time Merchant Wallet Balance

GET /api/v1/vendor/balance

GET /API/V1/VENDOR/BALANCE

```
curl --request GET \
  --url https://nepalrecharge.com/api/v1/vendor/balance \
  --header 'x-auth-token: npr_live_YOUR_API_KEY'
```

200 OK • WALLET BALANCE

```
{
  "error": false,
  "status": "SUCCESS",
  "data": {
    "merchant_id": "VEN-99120",
    "currency": "NPR",
    "balance": 14900.00,
    "credit_limit": 50000.00,
    "available_funds": 64900.00
  }
}
```

Appendix: Response Codes & Error Standards

Standard HTTP error response specifications and gateway error codes.

STATUS CODE	ERROR STRING	DESCRIPTION & SUGGESTED ACTION
000	SUCCESS	Transaction completed successfully. Operator confirmed credit.
401	UNAUTHENTICATED	Invalid, missing, or inactive <code>x-auth-token</code> header.
402	INSUFFICIENT_BALANCE	Wallet funds are less than the recharge amount. Top up balance.
404	OPERATOR_NOT_FOUND	Specified <code>operator_id</code> does not exist or is inactive.
409	DUPLICATE_REFERENCE_NO	<code>reference_no</code> was already used for an executed transaction.
422	PACKAGE_ID_REQUIRED	Package ID mandatory for DTH (Type 2), Data (Type 3), or Internet (Type 5).
422	AMOUNT_MISMATCH	Submitted amount does not match authoritative package cost.
422	INVALID_CONNECTION_NO	Phone number, Smart Card, or landline digits violate carrier rules.
429	RATE_LIMIT_EXCEEDED	Exceeded permitted transactions per minute. Backoff and retry.
504	GATEWAY_TIMEOUT	Carrier upstream took >60s. Do NOT re-execute; query <code>status-by-ref</code> .

Developer Technical Support & NOC

Direct Developer Escalation: support@nepalrecharge.com • Merchant Portal: <https://nepalrecharge.com/vendor>