



JULY 2, 2025

USER NOTE

BESCOM TRM

FEATURE TITLE: SMART METER IMPLEMENTATION IN NCMS

RELEASE DATE: 01-JULY-2025

MODULE: NCMS

SHAIK CHAND BASHA

IDEA INFINITY IT SOLUTIONS PVT LIMITED, INFANTRY ROAD, BANGALORE



Revision History

Author	Date	Reason For Changes	Ver.	Reviewed By
Shaik Chand Basha (Business Analyst)	02-07-2025	Initial Draft	1.0	Sarbajit Behera (Business Analyst)

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1. Summary of the Feature

Smart Meter functionality has been integrated into the NCMS application to comply with the latest regulatory and operational requirements. This feature enables automatic processing and handling of smart meters for all new LT (Low Tension) connection applications—both temporary and permanent—registered on or after **01-July-2025**.

There are no changes in the overall NCMS workflow for both *Fast Track* and *Other* types of connections. However, this feature introduces a few modifications at the form level and in the data fetching mechanism.

Form-Level Changes details

Form Name	Change Description
Application Request	Prepaid option selection enabled
Field Inspection	No change
Estimation	Smart meter materials added
Intimation/Power Sanction	Security deposit amount included
Work Order Issue	Meter purchase letter incorporated
Material Inventory	No change
Meter Calibration	Meter details auto-fetched from the Smart Meter Application
CR / Service Connection	No change

2. Key Highlights of the Change

2.1 Application Request Form:

Steps:

- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the New Application request Form
- Click on the New button

Key Changes:

- Longitude and Latitude fields are made mandatory. (Screen 1)
- Service Type will be set as SRBD (Smart Reading Billing Device) by default.(Screen 2)
- For Temporary Connections, Billing Type will default to Prepaid. (Screen 2)
- For Permanent Connections, users can choose between Prepaid and Postpaid.
(Screen 2)

Screens:

Not secure 49.204.64.201:1993/NewService/NewService

Bangalore Electricity Supply Company Limited (BESCOM) USER DETAILS AET KOLAR RURAL

Basic Details Document List

Applicant Details

Account ID For Tapping
Please Enter Account ID Load

Applicant Name* Father's Name/ Spouse Name Date Of Birth* Age*

Guardian Name Relationship With Guardian Occupation Aadhar Linked Mobile No*

Phone Email Floor Name House/Door No

Caste Caste Name Caste No Govt/Private*

Proof Type* Proof Number* GST No. Latitude*

Longitude*

POWER SUPPLY REQUIRED AT ADDRESS

Address Line 1* Address Line 2 Address Line 3 Address Line 4

District* Taluk* GP/TMC/CMC* Village/Town*

State* Country* Pincode*

SCREEN 1

Google Search HRMS Idealinfinty Webmail : Sent BESCOM-TRM

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BESCOM Bangalore Electricity Supply Company Limited (BESCOM) USER DETAILS AET KOLAR RURAL

District* Taluk* GP/TMC/CMC* Village/Town*

Pincode*

MISCELLANEOUS DETAILS

Category* Premises Located In* Name Of The Locality Builtup Area(Sq Mtr)

Plinth Area(Sq Mtr) Common Main* ☐ Yes ☒ No Applicant Type* ☐ TATKAL ☒ NORMAL Site Type*

Type Of Power*

POWER SUPPLY DETAILS

Load KW* Tariff* Nature Of Activity* Load HP

Scheme Meter Type No Of Connection Applicable

Service Type* Billing Type* Phase* Required Voltage*

Show 10 entries

SLNO Application Details Remove Application No. Applicant Name Mobile No Proof Type Proof No Ration Card Installation Category Tariff Nature Of Activity Load KW Load HP Scheme Phase Meter Type Billing Type Service

No data available in table

SCREEN 2

2.2 Estimation Form:

Steps:

- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the Estimation Form
- Select the Record from the grid which is pending for th Estimation.

Key Changes:

- Added the Smart Meter in the Category field which is mandatory to add the smart meter metirials.
- Smart Meter-related materials will be listed in the Details field
- Area Specific Charges will be “Not Applicable”.

Material Details:

Sl. No.	Type of Meter	Material Code	Basic Rate (Rs.)	GST @18% (Rs.)	Total (Rs.)
1	LT AC Single Phase 2 Wire, 5-30 Amps Smart Energy Meter, Class 1.0 Accuracy with Communication Module without Box	357548	4,067.80	732.20	4,800.00
2	LT AC 3 Phase 4 Wire, 10-60 Amps Smart Energy Meter, Class 1.0 Accuracy with Communication Module without Box	357546	7,203.39	1,296.61	8,500.00
3	LT AC 3 Phase 4 Wire CT Operated, 5 Amps Smart Energy Meter, Class 0.5s Accuracy with Communication Module without Box	357547	9,237.29	1,662.71	10,900.00

4	LT-CT Class of Accuracy: 0.5s, rated burden 5.00 VA, set of 4 CTs	336051	11,084.75	1,995.25	13,080.00
5	Polycarbonate Box for Single Phase Whole Current Smart Energy Meter	358015	167.80	30.20	198.00
6	Polycarbonate Box for Three Phase Whole Current Smart Energy Meter	358016	322.03	57.97	380.00
7	Polycarbonate Box for Three Phase Whole Current Smart Energy Meter – LT-CT Operated	358017	3,474.58	625.42	4,100.00

Screens:

BESCOM Bangalore Electricity Supply Company Limited (BESCOM)

USER DETAILS

USER NAME: AE GAN
ROLE: Assistant Engineer
LOCATION: KOLAR RURAL

Estimation

Estimate (Commissioning)

Nature of Work / Type of Execution: Self Execution
Type Of Work: Civil Engineering Works inclusive of connection Electr...
Schemes of the Work: New Service Connection - 14.400
Customer Name: DEMO SIX
Name of the Work: WORK
Estimate Number (User defined):
Auto Estimate No.: 12211503201513
Estimate Date (DD/MM/YYYY): 29/03/2025
Account Code: 14.400
Account Description: New Service Connection
Area Specific Charges: Not applicable
Description: Not applicable Charges
Percentage (%): 0
Estimation Part: Select an Option
Estimation Part Description: Select an Option
Category: Select
Details: Select
Quantity: Select

Connection Details

Show 10 entries

S/N	Sub Identification No	Receipt Number	Receipt Date	Receipt Amount	Name	Mobile Number	Floor	Triff	Purpose	Load KW	Load HP	Contract Demand Key
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SCREEN 3

Not secure 49.204.64.201:1993/EstimationDetails/EstimationDetails

Bangalore Electricity Supply Company Limited (BESCOM) USER DETAILS AE KOLAR BURE

Added Item Details

Show 10 Entries

Item Id	Item Code	Item Name	Item UOM	Item Quantity	Material Cost As Per SR	Labour Charges As Per SR	Total Material Cost	Total Labour
357546	357546	LT AC 3 Phase 4 Wire 10-60 Amps Smart Energy Meter Class 1.0 Accuracy With Communication Module Without Box	No	1	7203.3900	0	7203.39	0
357548	357548	LT AC Single Phase 2 Wire 5-30 Amps Smart Energy Meter Class 1.0 Accuracy With Communication Module Without Box	No	1	4067.8000	0	4067.8	0
358015	358015	Polycarbonate Box For Single Phase Whole Current Smart Energy Meter	No	1	167.8000	0	167.8	0
358016	358016	Polycarbonate Box For Three Phase Whole Current Smart Energy Meter	No	1	322.0300	0	322.03	0

Previous 1 Next

Total Material Cost
11761.02

Labour Charges
0

Total Area Specific Charge
0.00

Govt. Electrical Inspectorate Charges
0

CGST
1058.49

Statutory Charges
0

Compensation Charges
0

Civic Body
0

Extra Charges
0

Total Labour Charges
0.00

Miscellaneous Amount
0

Estimate Cost
13878.00

☐ Click to Enable

Add Estimate Part

Show 10 entries

Estimation Part	Estimation Part Description	Item/Group Count	Estimate Cost	Delete	Edit	View
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SCREEN 4

2.3 Intimation / Power Sanction Form:

Steps:

- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the Intimation/Power sanction form
- Select the Record from the gird which is pending for the Intimation.

Key Changes:

- On clicking Verify i-con against the sub-application:
 - For Postpaid: 2 MMD charges will apply as usually and this amount is considered as Deposit.
 - For Prepaid: 1 ACC charge (half of 2 MMD) will apply and this amount is considered as Revenue (collection).
 - For Temporary Connections: User must select ACC/PCC charges as applicable as usually and this amount is considered as Revenue (Collection).

Screens:

The screenshot shows the 'Intimation Details' screen of the Bangalore Electricity Supply Company Limited (BESCOM) application. The page has a dark blue sidebar on the left with a search icon and the word 'board'. The main content area is white and contains three sections: 'Connection Details', 'Intimation Details', and 'Calculated Amount Details'.

Connection Details

Search:

SLNO	Verify	Sub Application No	Application Number	Estimation Number	Receipt Number	Receipt Date	Receipt Amount	Name	Father Name	Mobile Number	Est Date	Floor	Tariff	Purpose	Load KW	Load HP
1	<input checked="" type="checkbox"/>	12211062500610001	1221106250061	1221250630113952	94	30-06-2025	50	Sarbjit		9966985676	30-06-2025		LT1-Urban	Sulebh / Nimal Souchalayay	5	0
2	<input checked="" type="checkbox"/>	12211062500610002	1221106250061	1221250630113952	95	30-06-2025	100	Sarbjit		9966985676	30-06-2025		LT5-Rural	Milk dairies	4	0

Showing 1 to 2 of 2 entries

Previous 1 Next

Intimation Details

Meter Supplied By*

Charges*

Amount*

Calculated Amount Details

Search:

Sub Application No	Charges Type	Amount	Remove
12211062500610001	1ACC Amount	2030	<input type="button" value="Remove"/>
12211062500610002	D2/ISD Amount	3050	<input type="button" value="Remove"/>

Showing 1 to 2 of 2 entries

Previous 1 Next

SCREEN 5

2.4 Work Order Issue:

Steps:

- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the Work Order Issue form
- Select the Record from the grid which pending for the Work Order issue.
- Save the Work order by providing the required details
- Once the Work Order get the final Approval, In the work Order issue form user able to see the Work Order report against the application.

Key Changes:

- The generated work order report (Screen 6) will be containing:
 - Work & material Details (Screen 7)

- Deposit Details (Screen 8)
- Meter Purchase Letter (Screen 9)

Screens:

Not secure 49.204.64.201:1993/pSanction/PSanctionView

Bangalore Electricity Supply Company Limited (BESCOM) USER DETAILS AET KOLAR RURAL

Work order Details

From Date: 01-01-2025 To Date: 30-06-2025 [Load](#)

Show 10 entries

Application No	Est No	Est Date	Est Cost	Applicant Name	Applicant Address	Application Type	Authorized By	Source Type	Status	Action	Work Order Report
1221106250061	1221250630113952	30-JUN-2025	13878	Surbajit	Shanti Nagar	OTHERS	AEE	WEB	PENDING WITH WORK ORDER	✓	📄
1221106250080	1221250628133337	28-JUN-2025	4800	WSS OTHER	BENAGLURU	OTHERS	AEE	WSS PORTAL	PENDING FOR METER CALIBRATION	✖	📄
1221106250056	1221250627142048	27-JUN-2025	24200	sangeetha	Bengaluru	OTHERS	AEE	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250055	1221250627131935	27-JUN-2025	16358	Hari das	Kadiri	OTHERS	AEE	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250052	1221250626145848	26-JUN-2025	24731	Amrutha permanent	bengaluru	OTHERS	AEE	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250050	1221250626144853	26-JUN-2025	0	AMRUTHA	BENAGLURU	FastTrack	AET	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250020	12211250623151541	23-JUN-2025	0	SMART METER		FastTrack	AET	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250014	1221250618145801	18-JUN-2025	439	TEMPORARY SMART	GFDSD	OTHERS	AEE	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250013	12211250618143227	18-JUN-2025	0	SMART FTNC ONE	CVDFGF	FastTrack	AET	WEB	PENDING FOR METER CALIBRATION	✖	📄
1221106250011	1221250617190639	17-JUN-2025	439	Anudeep	bengaluru	OTHERS	AEE	WEB	PENDING WITH WORK ORDER	✓	📄

Showing 1 to 10 of 223 entries

Previous 1 2 3 4 5 ... 23 Next

SCREEN 6



Bangalore Electricity Supply Company Limited
(Wholly owned Government of Karnataka Undertaking)

Work Order Report

Field Study , Estimation and Execution. Consumer Class :LT1-Urban , RequestedLoad(KVA):-4.00 KW, Phase:
3,VoltageRequirement : 240V

The details of sanctioned estimate/Work order issued are as follows

Work Order No :	1221242500216
Status :	ACTIVE
Estimation No :	1221250630113952
Estimate Created Date :	30-06-2025
Estimate Sanctioned Authority and Date :	AEE & 30-06-2025
Manual WO/Tentative No issued :	UAT786786
Stock Transfer No :	
Award no and Date :	
Contract Awarded to :	
Account head :	New Service Connection
Budget head :	
Estimation Work Type :	Service Connection (SELF EXECUTION WORKS)

LT-Part A-Service Line Main

Sl No	Material Code	Description of Material	Quantity	Unit	Rate	Materials Amount	Labour Rate	Labour Amount
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Abstract

1	Material Cost (Exclusive of GST)	0
2	Labour Charges (Exclusive of GST)	0
3	Basic Rate (Sum of Sl No. 1 & 2)	0
4	Area Specific Loading on Basic Rates (Sl No. 3) wherever applicable	0
5	Applicable GST on Sl No. 3 & 4	0
6	Cost of Estimate (Sum of Sl No. 3 to 5)	0
8	Total Cost of Estimate (Sum of Sl No. 6 & 7)	0

Cost Summary:

Item Description	Cost
Total Estimation Cost	0
TOTAL	0

And so on covering all tasks planned:

LT-Part B Smart Meter

Sl No	Material Code	Description of Material	Quantity	Rate	GST %	Amount
1	357546	LT AC 3 Phase 4 Wire, 10-60 Amps Smart Energy Meter, Class 1.0 Accuracy with Communication Module without Box	1	7203.3900	18	8500.00
2	357548	LT AC Single Phase 2 Wire, 5-30 Amps Smart Energy Meter, Class 1.0 Accuracy with communication Module without Box	1	4067.8000	18	4800.0

3	358015	Polycarbonate Box for Single Phase Whole Current Smart Energy Meter	1	167.8000	18	198.0
4	358016	Polycarbonate Box for Three Phase Whole Current Smart Energy Meter	1	322.0300	18	380.00

Certificate:

Report: This estimate has been prepared for APS to an extent of 0.00 HP LT1-Urban installation in Favour of Sarbajit. Total Built up area is 0 Sq Ft. It has existing 2 Floors. Each floor has 0 Sq Ft each floor. Newly Constructed SF, TF has area of 0 Sq Ft each. Existing Common Sub-Application Nos. are 12211062500610002, 12211062500610001.

Payment certificate

The applicant has paid the following deposit charges :

Application Number	Sub Application Number	Tariff	Requested Load	Account Head	Amount(Rs)
1221106250061	12211062500610001	LT1-Urban-DOMESTIC LIGHTING & HEATING - LT2A1	5.00 KW0.00HP	47.3017-47.3017- 1 ACC	2030
1221106250061	12211062500610002	LT5-Rural-INDUSTRIAL POWER - LT5A-RLB	4.00 KW0.00HP	48.1017-48.1017 - ISD	3050

Sl No	Receipt Number	Receipt Date	Charge Name	Paid Amount
1	96	2025-06-30	47.3017- 1 ACC	2030
2	97	2025-06-30	48.1017 - ISD	3050

W.O. No.: 1221242500216

Date:

Budget head: -

Cost: 0

zero Rupees only

AE(T),

AEE(O),

AO,

EE

System Generated on : 30 - 06 - 2025 12: 05:33



Bangalore Electricity Supply Company Limited
(Wholly owned Govt. of Karnataka Undertaking)

No:BESCOM/MTR-PROC-MC /5769393623/30-JUN-2025

ASSISTANT EXECUTIVE ENGINEERS (Elec)

KOLAR RURAL, BESCOM

Dated:30-JUN-2025

To,
Shanti Nagar
Sarabjitt
BANGALORE KAR
IND 560026
Sir,

Sub: Permission to Purchase meter

Ref: (1) BESCOM /DT/GM (T)/BC-20/02-03/5567/Dtd:21.11.2002

Ref: (2) Letter No: 5769393623, Application Id: 1221106250061

With reference to your applications registered vide Application. No: 1221106250061 with us on 30-JUN-2025 for new service for

DLMS,NON DLMS, total sanctioned load 5.00 KW we wish to inform you that as per provisions of BESCOM under cited reference, approval is accorded to purchase the meter for availing new service to Domestic/commercial/Industrial installation subject to the following conditions:

1. You have to purchase the specified meter within 7 days of this letter as shown in below table from the BESCOM's identified/authorized manufacturer's retail outlet, by producing this letter. In addition to meter cost you also have to pay taxes and service charges at the time of purchase.

SL.No	Meter Description	Quantity	Rate	GST	Amount
1.	LT AC 3 Phase 4 Wire, 10-60 Amps Smart Energy Meter, Class 1.0 Accuracy with Communication Module without Box	1	7203.3900	18	8500.00
2.	LT AC Single Phase 2 Wire, 5-30 Amps Smart Energy Meter, Class 1.0 Accuracy with communication Module without Box	1	4067.8000	18	4800.0
3.	Polycarbonate Box for Single Phase Whole Current Smart Energy Meter	1	167.8000	18	198.0
4.	Polycarbonate Box for Three Phase Whole Current Smart Energy Meter	1	322.0300	18	380.00

2. You have to hand over the meter to the respective O&M section immediately.

3. You have to ensure that the purchased meter is in a cardboard carton, duly sealed and shall not be tampered with.

4. You have to produce copies of the meter test certificate, warranty certificate, and cash receipt at the time of service so as to maintain the same in our records.

We thank you for your cooperation and please feel free to contact us for any clarifications.

Yours faithfully

The Assistant Executive Engineer(EI)

KOLAR RURAL BESCOM

SCREEN 9

2.5 Material Inventory and Smart Meter App Integration:

- Upon material inventory Final Approval:
 - Application details are shared via API with the Smart Meter Team.
 - Further actions like purchase of meter, and installation are handled in the Smart Meter Application.

2.6 Meter Calibration Integration:

- Once installation is completed and approved in the Smart Meter Application, then only meter details will auto-populate in the Meter Calibration Form.

3. Action Required by Users

- Notice all new applications (LT) from 01-July-2025 follow the new process.
- Select appropriate billing type and materials based on the guidelines.
- Coordinate with the Smart Meter Team for post-inventory steps.