USER NOTE BESCOM TRM

FEATURE TITLE: SMART METER IMPLEMENTATION IN NCMS

RELEASE DATE: 01-JULY-2025

MODULE: NCMS

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IDEA INFINITY IT SOLUTIONS PVT LIMITED, INFANTRY ROAD, BANGALORE

Revision History

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

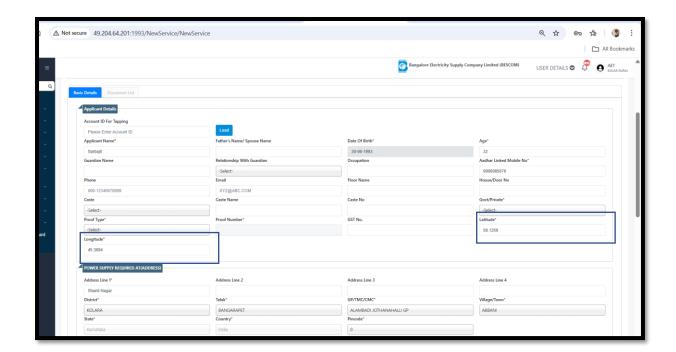
2.1 Application Request Form:

Steps:

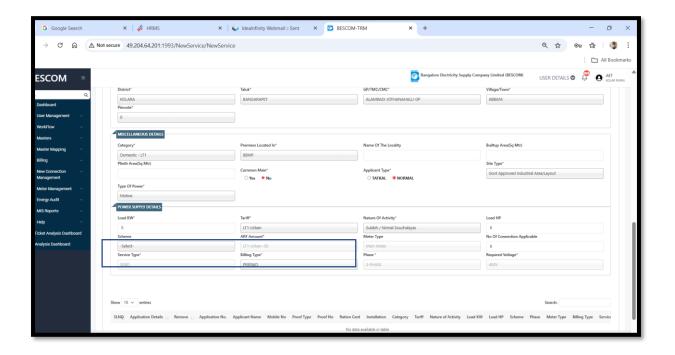
- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the New Application request Form
- Click on the New button

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)



SCREEN 1



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 gird which is pending for th Estimation.

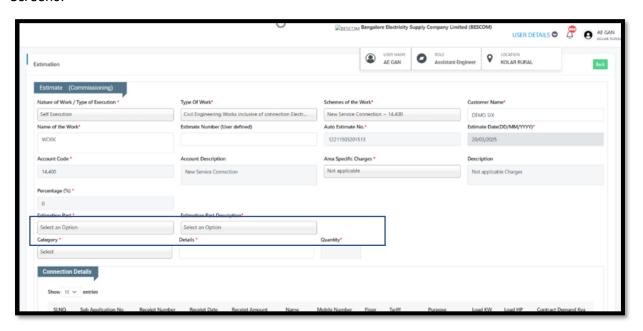
Key Changes:

- 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".

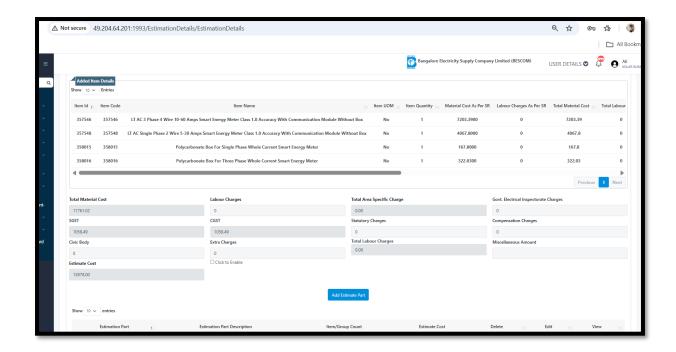
Meterial Details:

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

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



SCREEN 3



SCREEN 4

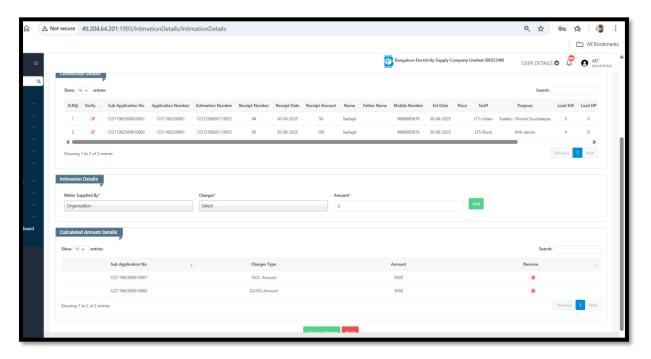
2.3 Intimation / Power Sanction Form:

Steps:

- Log-in to the application with valid credentials
- Click on the New connection Management Module
- Select the Intimation/Power santion 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).



SCREEN 5

2.4 Work Order Issue:

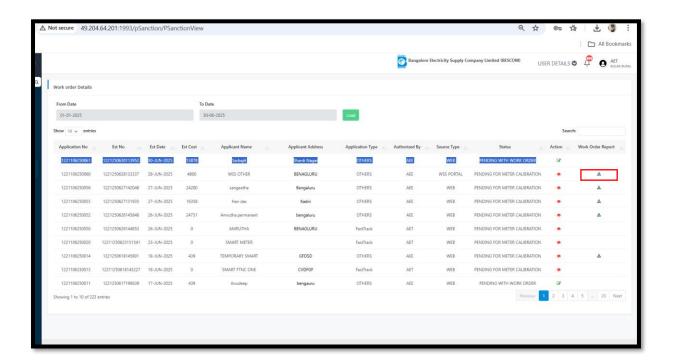
Steps:

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

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



SCREEN 6

ಬೆವಿಕಂ BESCOM

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

S	l No	Material Code	Description of Material	Quantity	Unit	Rate	Materials Amount	Labour Rate	Labour Amount	l
_										٠.

Abstract

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

Cost Summary:

Item Description	Cost
Total Estimation Cost	0
TOTAL	0

And so on covering all tasks planned:

LT-Part B Smart Meter

S	Mater Cod		Description of Material	Quantity	Rate	GST %	Amount
1	3575	46	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	3575	LT AC Single Disease 2 Misro E 20 Amore Smoot Engage Makes Close 1 0 Appurpage		1	4067.8000	18	4800.0
$\overline{}$						$\overline{}$	

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	1

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

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

AO,

EE

W.O. No.: 1221242500216

Date:

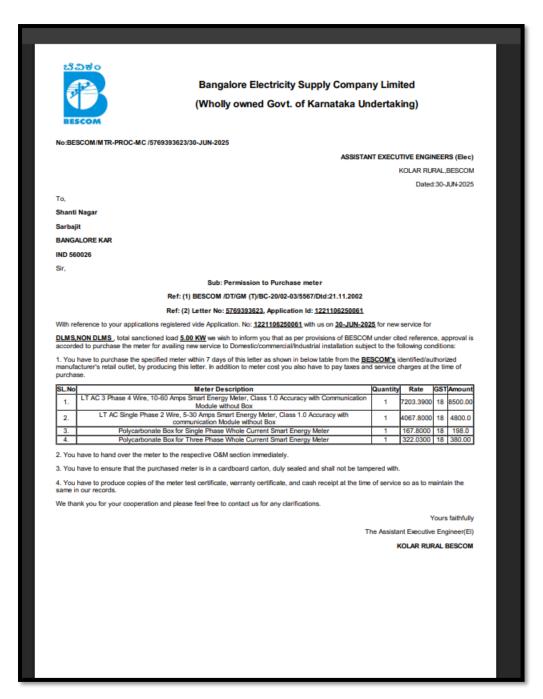
Budget head: -

Cost: 0

zero Rupees only

AE(T), AEE(O),

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



SCREEN 9

2.5 Meterial Inventory and Smart Meter App Integration:

- Upon material inventory Final Approval:
 - o 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.