

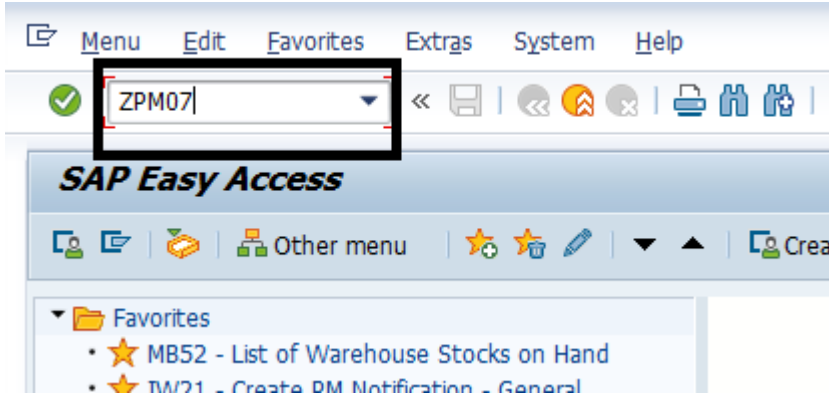


**Project – SUGAM(BSPTCL)
End User Manual
Plant Maintenance**

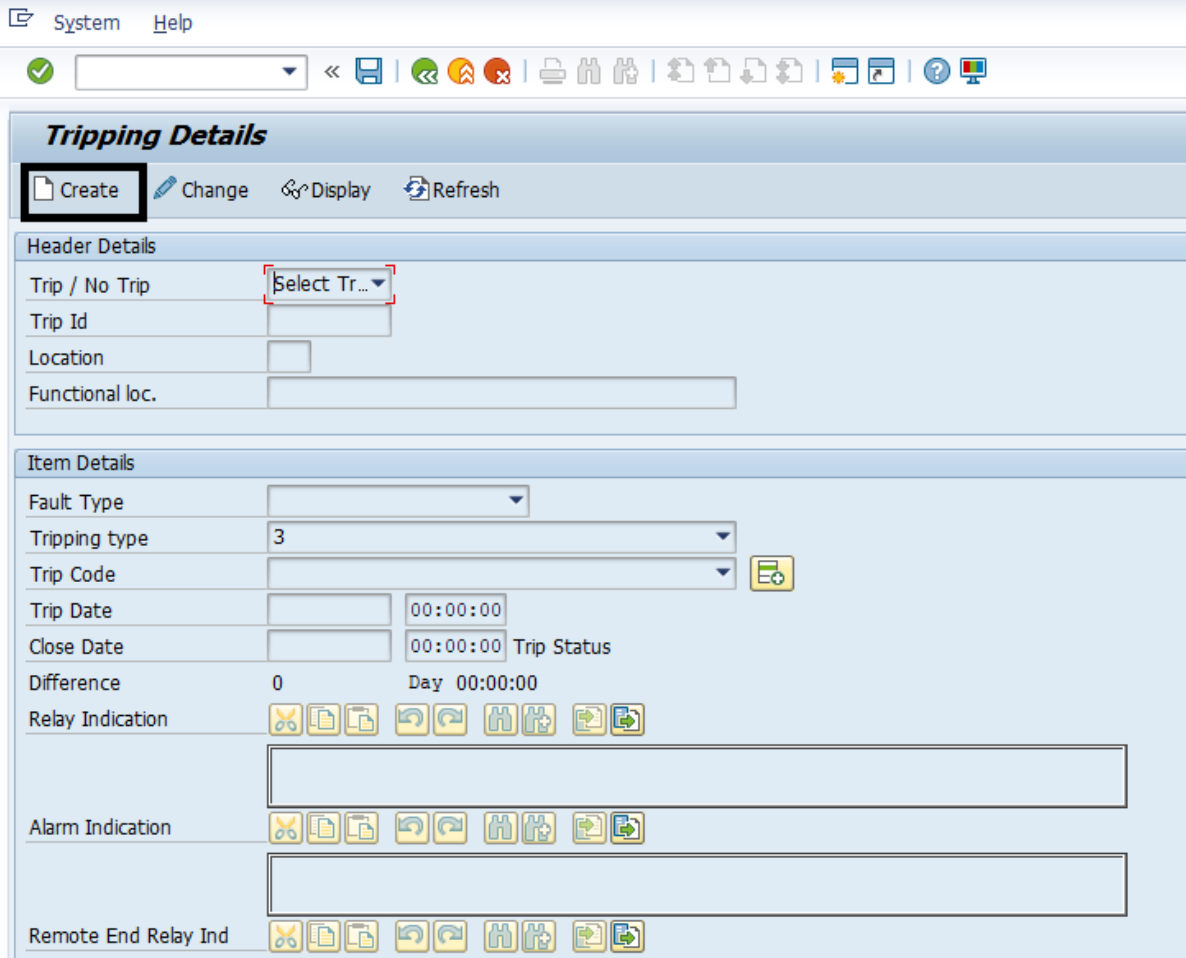


1. Tripping details (Transaction code - ZPM07)

GSS wise equipment tripping details can be capture



| Step | Action |
|------|-------------------------------------|
| (1) | Enter T-code- ZPM07 and press Enter |



Tripping details initial screen



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End User Manual
Plant Maintenance



System Help

✓ [Dropdown] << [Icons]

Tripping Details

Create Change Display Refresh

Header Details

Trip / No Trip

Trip Id

Location

Functional loc.

Item Details

Fault Type

Tripping type

Trip Code

Trip Date

Close Date Trip Status

Difference 0 Day 00:00:00

Relay Indication

Alarm Indication

Remote End Relay Ind

| Step | Action |
|------|----------------------|
| (1) | Click on Create icon |



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Plant Maintenance



CREATE Tripping Details

Change Display Refresh

Header Details

Trip / No Trip
Trip Id
Location
Functional loc. 132KV FATUHA-KATRA

Item Details

Fault Type
Tripping type
Trip Code
Trip Date
Close Date Trip Status
Difference Day
Relay Indication
Alarm Indication
Remote End Relay Ind

| Step | Action |
|------|---|
| (1) | Enter Trip type, Location and functional location |
| (2) | Enter Fault type, Tripping Type, Trip date and Trip time |
| (3) | Enter relay Indication, Alarm Indication etc. and click on save icon. |



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System Help

CREATE Tripping Details

Change Display Refresh

Header Details

| | |
|-----------------|--|
| Trip / No Trip | Trip |
| Trip Id | 000000001 |
| Location | 001 GSS-Katra |
| Functional loc. | SS-KATRA-132KV-BAY101 132KV FATUHA-KATRA |

System Help

Tripping Details

Create Change Display Refresh

Header Details

Performance Assistant

Tripping No. 1000000024 is created.
Message no. SY002

After save the transaction unique trip number is generated.

For Trip Closing: For trip closing click on Change icon and enter trip number

System Help

Tripping Details

Create Change Display Refresh

Header Details

| | |
|-----------------|--------------|
| Trip / No Trip | Select Tr... |
| Trip Id | |
| Location | |
| Functional loc. | |



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Plant Maintenance



System Help



CHANGE Tripping Details

Create Display Refresh

Header Details

| | |
|-----------------|------------|
| Trip / No Trip | Select Tr |
| Trip Id | 1000000024 |
| Location | |
| Functional loc. | |

CHANGE Tripping Details

Create Display Refresh

Header Details

| | |
|-----------------|--|
| Trip / No Trip | Trip |
| Trip Id | 1000000024 |
| Location | 001 GSS-Katra |
| Functional loc. | SS-KATRA-132KV-BAY101 132KV FATUHA-KATRA |

Item Details

| | |
|---------------|--|
| Fault Type | Fault Trip |
| Tripping type | OVER VOLTAGE TRIP |
| Trip Code | |
| Trip Date | 24.06.2020 13:00:00 |
| Close Date | 24.06.2020 15:00:00 Trip Status Closed |

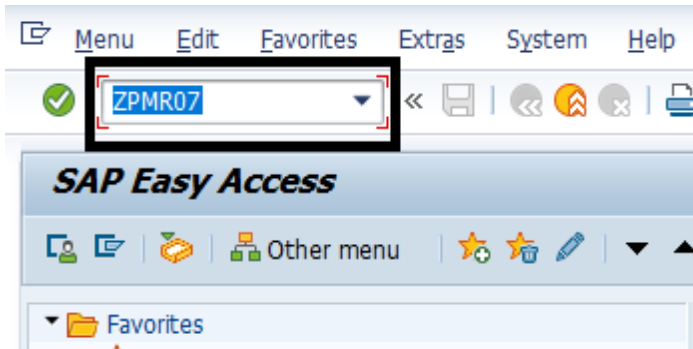
| Step | Action |
|------|----------------------------------|
| (1) | Enter trip Close date and timing |



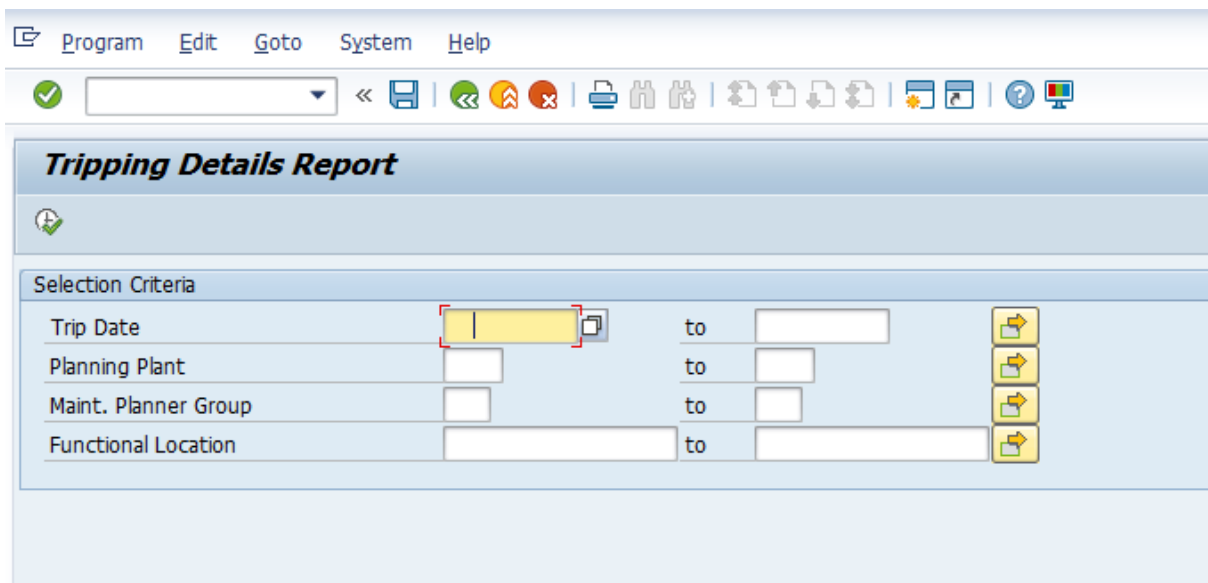
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Plant Maintenance



2. Tripping details report (Transaction code- ZPMR07)



| Step | Action |
|------|--------------------------------------|
| (1) | Enter T-code- ZPMR07 and press Enter |



Tripping Details Report Initial screen



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End User Manual
Plant Maintenance**



Program Edit Goto System Help

✓ [Dropdown] << [Save] [Refresh] [Print] [Zoom] [Zoom In] [Zoom Out] [Home] [Help] [Monitor]

Tripping Details Report

Selection Criteria

| | | | | |
|----------------------|------------|----|------------|--|
| Trip Date | 01.01.2020 | to | 30.06.2020 | |
| Planning Plant | 1100 | to | | |
| Maint. Planner Group | | to | | |
| Functional Location | | to | | |

| Step | Action |
|------|----------------------|
| (1) | Enter Trip date |
| (2) | Enter planning plant |

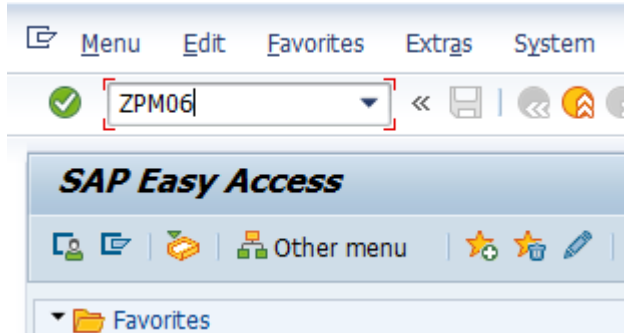
Tripping Details Report

| Trip/No | Trip Changed Date | Plant Description | Division Name | Function Location Name | Trip Id | Trip Date | Tripping type | Tripping Type Description |
|---------|-------------------|-------------------|----------------|----------------------------|------------|------------|---------------|---------------------------|
| Trip | 03.01.2020 | Trans Circle | Div-Patna East | 132KV KATRA-GAIGHAT | 1000000005 | 03.01.2020 | 003 | TRANSFORMER PROTN TRIP |
| Trip | 04.01.2020 | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000008 | 04.01.2020 | 003 | TRANSFORMER PROTN TRIP |
| Trip | 16.01.2020 | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000009 | 16.01.2020 | 002 | LOAD SHEDDING |
| Trip | 16.01.2020 | Trans Circle | Div-Patna East | 132KV KATRA-GAIGHAT | 1000000010 | 16.01.2020 | 004 | TRF SWITCHING |
| Trip | | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000011 | 21.01.2020 | 002 | LOAD SHEDDING |
| Trip | | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000013 | 04.02.2020 | 007 | DISTANCE PROTN TRIP |
| Trip | 03.02.2020 | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000012 | 03.02.2020 | 010 | OVER VOLTAGE TRIP |
| Trip | | Trans Circle | Div-Patna East | 132KV KATRA-GAIGHAT | 1000000014 | 04.02.2020 | 005 | UNDER FREQ PROTN TRIP |
| Trip | | Trans Circle | Div-Patna East | 132KV TRANSFORMER NO 1 | 1000000016 | 04.02.2020 | 001 | SHUTDOWN |
| Trip | | Trans Circle | Div-Patna East | KATRA 132/33 KV Substation | 1000000017 | 04.02.2020 | 002 | LOAD SHEDDING |
| Trip | 04.02.2020 | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000015 | 04.02.2020 | 001 | SHUTDOWN |
| No Trip | | Trans Circle | Div-Patna East | | 1000000006 | 03.01.2020 | | |
| Trip | | Trans Circle | Div-Patna East | KATRA 132/33 KV Substation | 1000000018 | 04.02.2020 | 005 | HIGH VOLTAGE IN THE SYS |
| Trip | | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000019 | 04.02.2020 | 001 | SHUTDOWN |
| Trip | 17.02.2020 | Trans Circle | Div-Patna East | 132KV BUS COUPLER | 1000000020 | 17.02.2020 | 002 | LOCAL BRKR BACKUP PROTI |
| Trip | 10.06.2020 | Trans Circle | Div-Patna East | 132KV FATUHA-KATRA | 1000000022 | 10.06.2020 | 002 | LOAD SHEDDING |

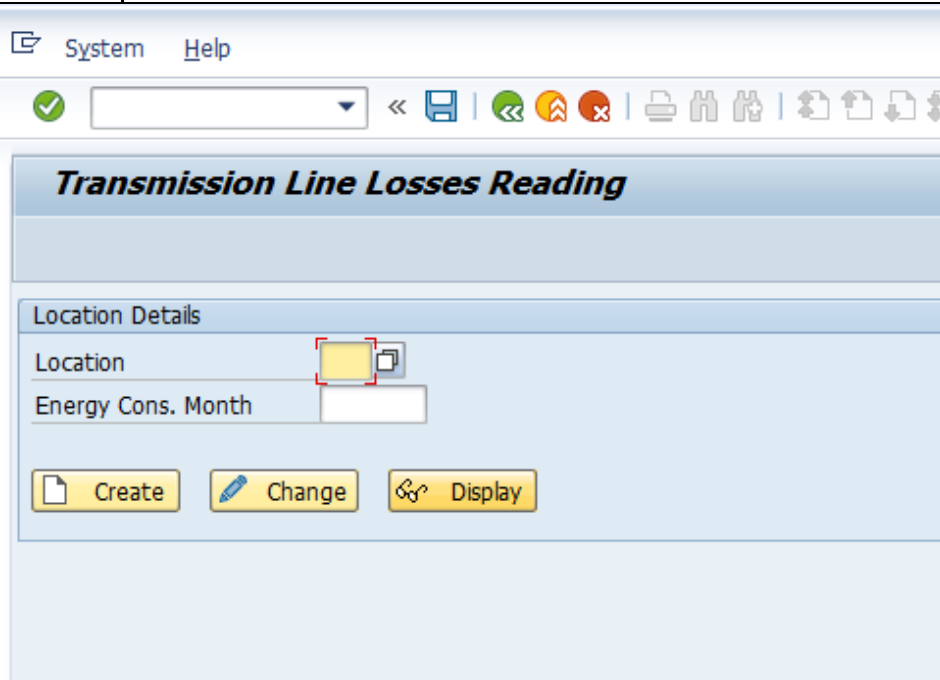
Tripping report

| | | |
|--|--|--|
| | Project – SUGAM(BSPTCL) End User Manual Plant Maintenance | |
|--|--|--|

3. Transmission line losses details (Transaction code ZPM06)

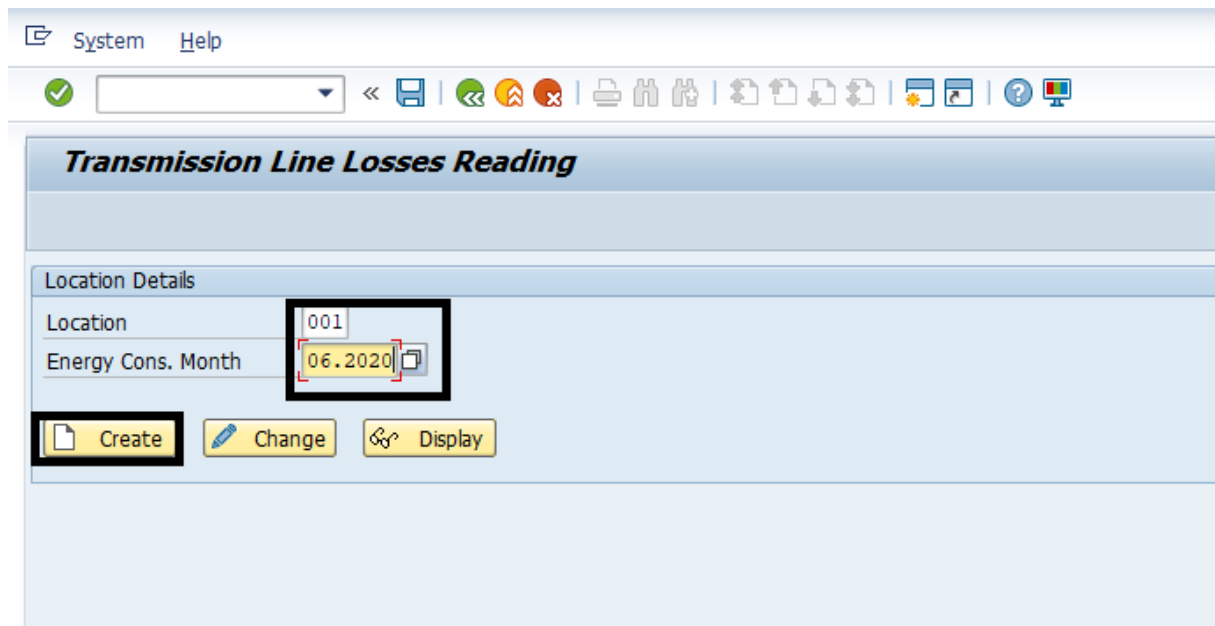


| Step | Action |
|------|-------------------------------------|
| (1) | Enter T-code- ZPM06 and press enter |

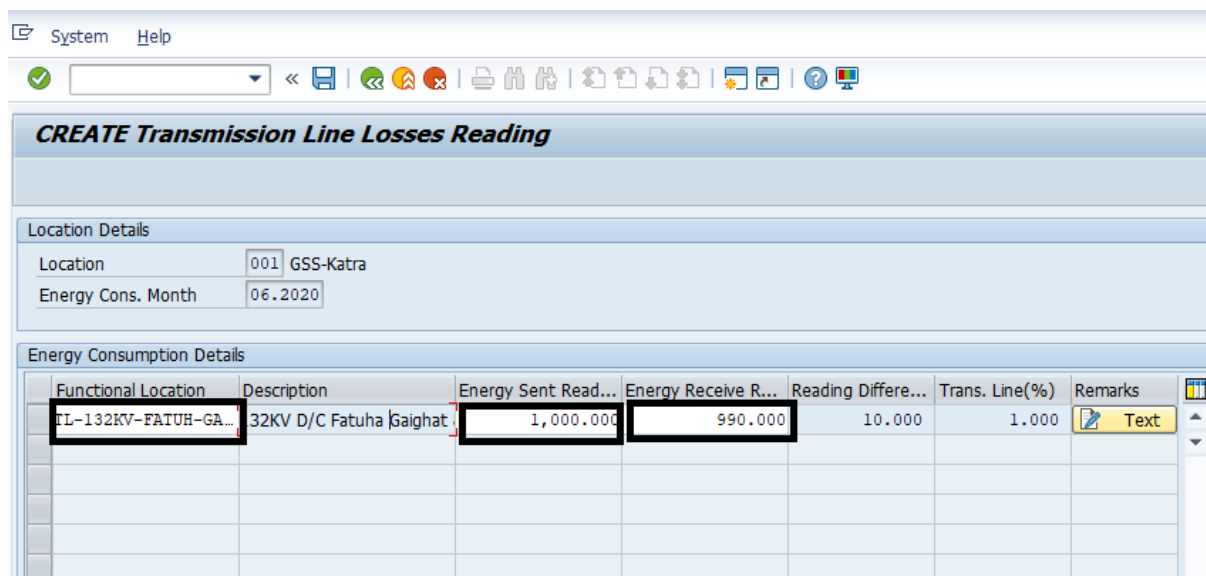


Transmission line losses initial screen

| |
|--|
| Project – SUGAM(BSPTCL) End User Manual Plant Maintenance |
|--|



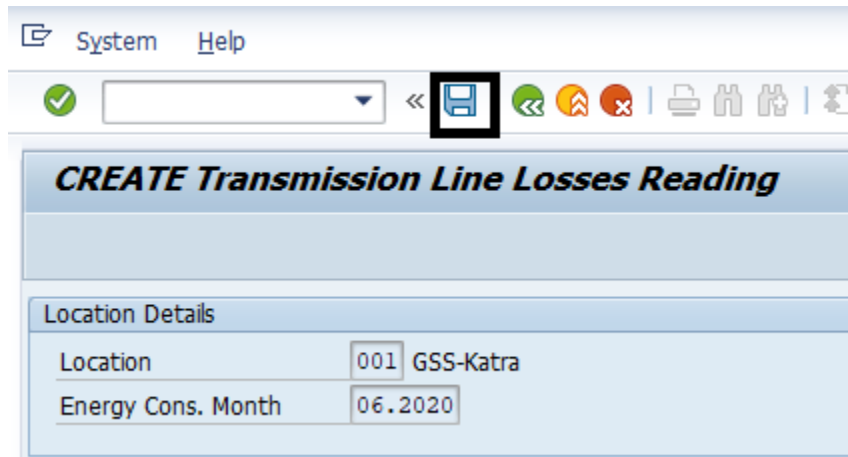
| Step | Action |
|------|--------------------------|
| (1) | Enter Location and month |
| (2) | Click on create icon |



| Step | Action |
|------|---|
| (1) | Enter transmission line |
| (2) | Enter Energy sent, Energy Receive press enter |

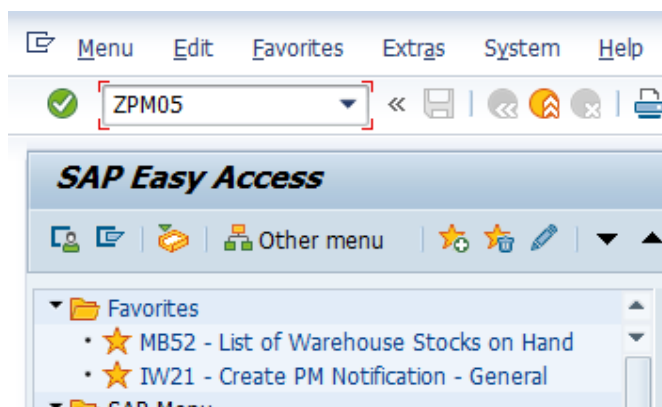
| | | |
|--|--|--|
| | Project – SUGAM(BSPTCL) End User Manual Plant Maintenance | |
|--|--|--|

| Step | Action |
|------|--|
| (3) | System calculate the reading difference, line loss in percentage |



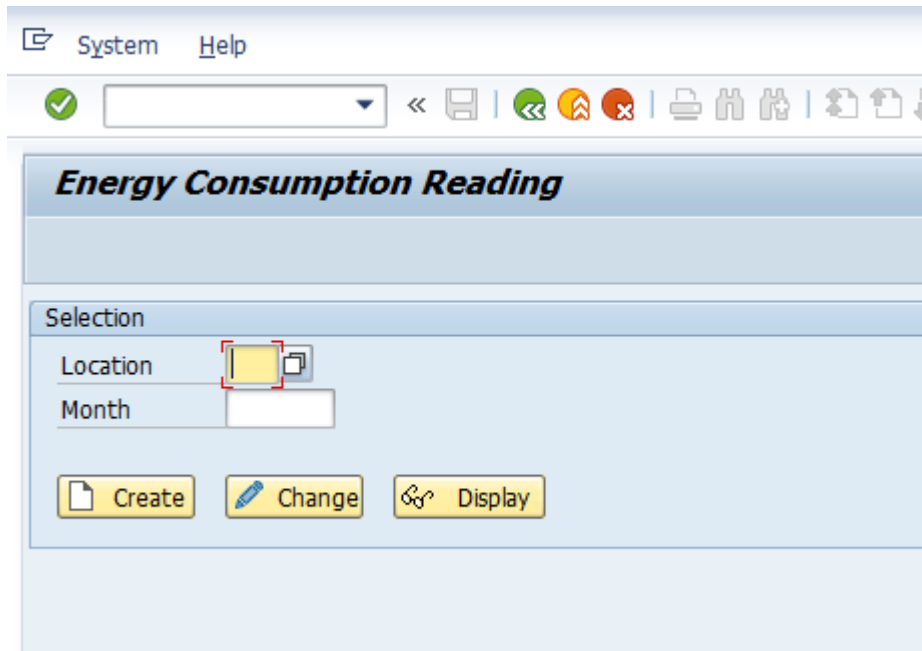
| Step | Action |
|------|---------------|
| (1) | Click on save |

4. Energy Consumption Reading(Transaction code ZPM05)

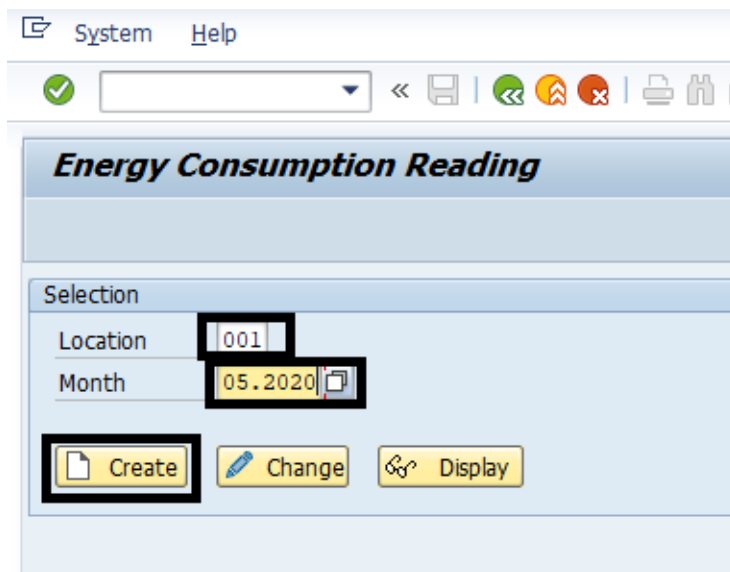


| Step | Action |
|------|-------------------------------------|
| (1) | Enter T-code- ZPM05 and press Enter |

| | | |
|--|--|--|
| | Project – SUGAM(BSPTCL) End User Manual Plant Maintenance | |
|--|--|--|

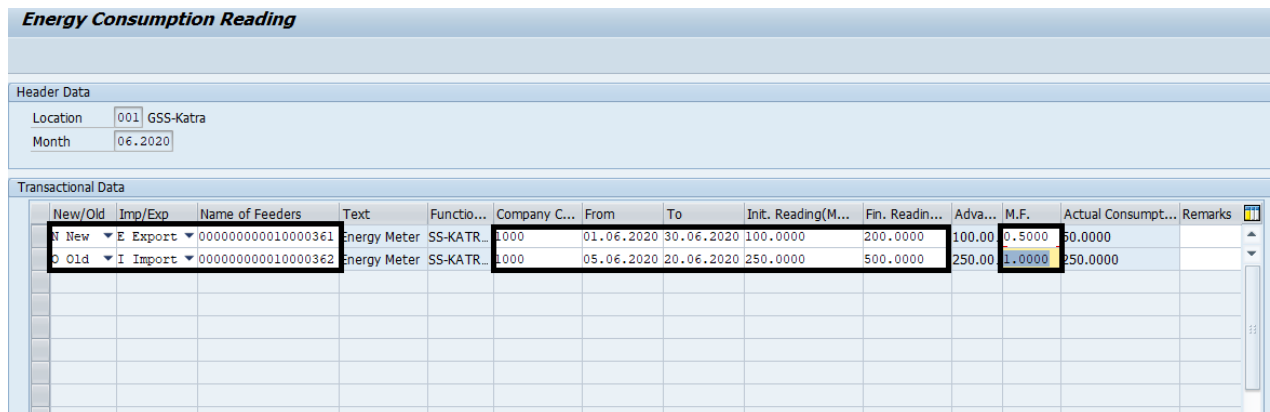


Energy consumption reading initial screen

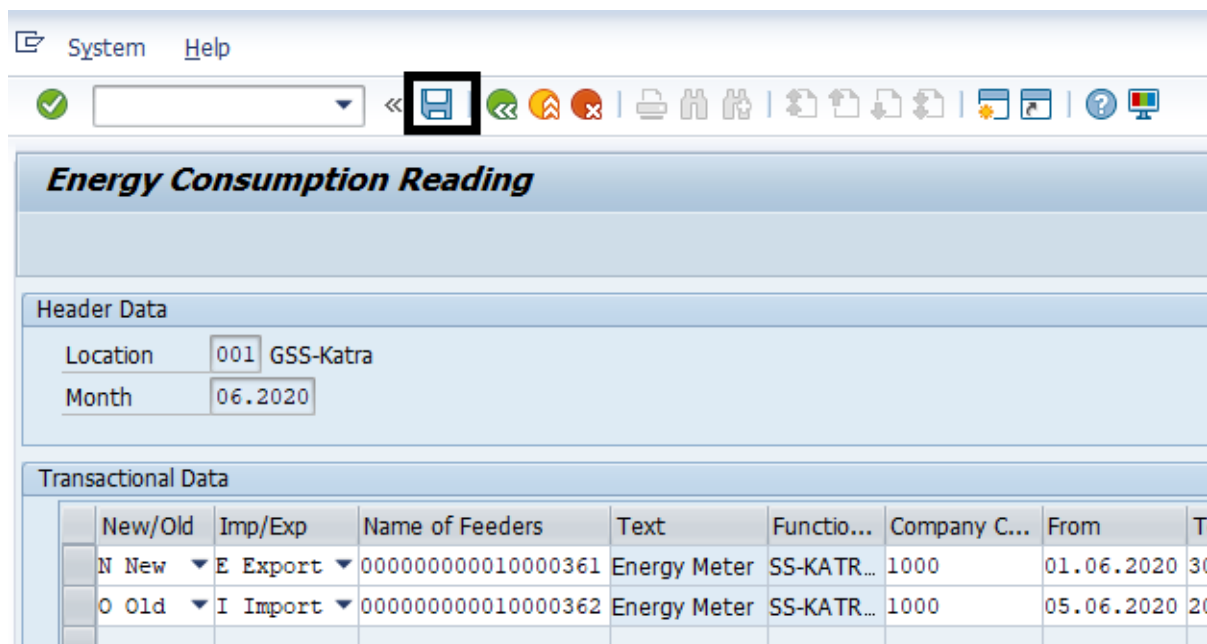


| Step | Action |
|------|----------------------|
| (1) | Enter GSS location |
| (2) | Enter month |
| (3) | Click on create icon |

| | | |
|--|--|--|
| | Project – SUGAM(BSPTCL) End User Manual Plant Maintenance | |
|--|--|--|



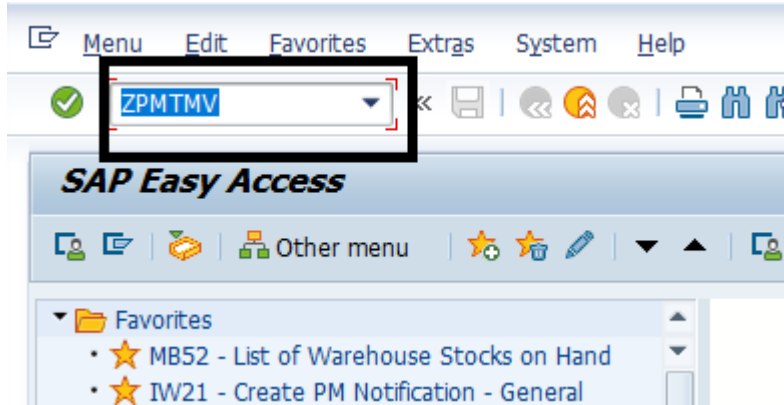
| Step | Action |
|------|--|
| (1) | Select operation type New or old, Select send or received |
| (2) | Select Energy Meter, Enter company code, From and To date. |
| (3) | Enter initial reading, enter final reading and MF factor press enter |



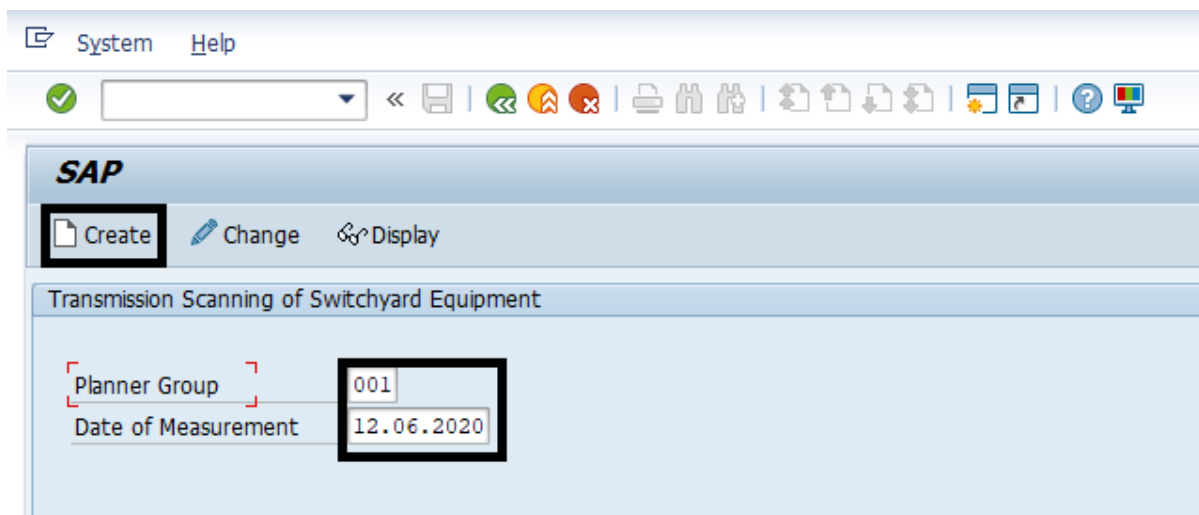
| Step | Action |
|------|--------------------|
| (1) | Click on save icon |

| |
|--|
| Project – SUGAM(BSPTCL) End User Manual Plant Maintenance |
|--|

5. Thermovision scanning of switchyard (transaction code ZPMTMV)



| Step | Action |
|------|--------------------------------------|
| (1) | Enter T-code- ZPMTMV and press Enter |



| Step | Action |
|------|---|
| (1) | Enter planner group and date of measurement |
| (2) | Click on Create icon |

| | | |
|--|--|--|
| | Project – SUGAM(BSPTCL) End User Manual Plant Maintenance | |
|--|--|--|

Create the Thermovision Scanning

Thermovision Scanning of Switchyard Equipment

| | | | |
|---------------------|--------------------|---------------------|-----------|
| Planner Group | 001 GSS-Katra | Equipment Number | 100000131 |
| Date of Measurement | 12.06.2020 | Make of Camera | |
| Functional Location | 132KV FATUHA-KATRA | Ambient Temperature | 32 °C |

Switch Yard Location

| | R | Y | B | |
|------------------------------------|----|----|----|-----|
| Line Isolater(Line Side) | | | | |
| Jumper Connector | 35 | 36 | 40 | ° C |
| Contacts | 35 | 35 | 40 | ° C |
| Line Isolater(Breaker Side) | | | | |
| Jumper Connector | 35 | 32 | 35 | ° C |
| Contacts | 33 | 33 | 35 | ° C |
| Breaker | | | | |
| Isolater Side | 35 | 32 | 40 | ° C |
| C.T Side | 32 | 32 | 35 | ° C |
| C.T | | | | |
| Breaker Side | 35 | 36 | 37 | ° C |

| Step | Action |
|------|---|
| (1) | Select Functional location |
| (2) | Enter Equipment number, Ambient temperature |
| (3) | Enter R Y B Temperature value of line Isolator, Breaker, Transformer, CT etc. |
| (4) | Save the Transaction |