

GENERATOR CONNECT US REQUIREMENTS

Introduction:

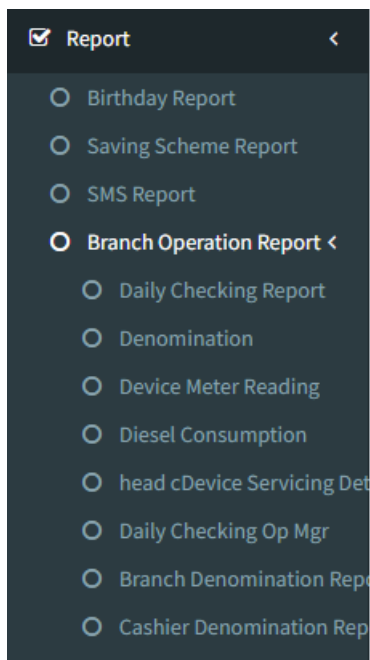
To calculate average diesel consumption per hour used in generators, we need to make certain changes in the connect us reports, so that by using export excel option we can get automatic data exported in excel.

Below are the details, process & format of the same along with the screenshots.



















Requirements: Update in Branch Operation Report, Pune HO.

Under:

Report > Branch Operation Report > Diesel Consumption



Dashboard:

Diesel Consumption						
Action	Date	Branch	Reading At The Time Of Refill	Previous Meter Reading	Diesel Quantity Filled	Consumption per Ltr.
 	2023-06-05 13:25:53	SANGAMNER BRANCH	4837.50	4782.10	31.03	1.79
 	2023-06-01 16:34:25	bhosari branch	18226.00	18111.60	100.00	1.14
 	2023-06-01 16:19:58	ATHANI BRANCH	1714.21	1700.70	100.00	0.14
 	2023-05-30 19:35:35	sangli branch	667.10	652.39	120.00	0.12
 	2023-05-30 17:14:47	Karad Branch	526.00	521.00	48.26	0.10
 	2023-05-29 18:28:55	Satara Branch	19014.00	18869.00	60.00	2.42
 	2023-05-29 12:26:19	SANGAMNER BRANCH	4782.10	4713.70	31.03	2.20
 	2023-05-27 12:44:32	Akluj Branch	1065.20	1062.60	53.49	0.05
 	2023-05-27 11:35:13	bhosari branch	18111.60	18037.10	100.00	1.01

Attachment is exported from current dashboard, now need to increase below mentioned fields in data form.

1. Run Time Before Refill
2. Run Time After Refill
3. Fuel Tank Capacity

Fields:

Add Diesel Consumption		Home > Diesel Consumption
Back To List Data Diesel Consumption		
Add Diesel Consumption		
Branch *	** Please select a Branch	
Reading At The Time Of Refill *		
Diesel Quantity Filled(In Ltr) *		
Previous Meter Reading		
Remark		
Back		Save & Add More Save

In addition to the existing fields, we require:

1. Run Time Before Refill* (Editable)
2. Run Time After Refill* (Editable)
3. Previous Meter Reading (Not Editable)
4. Attachments* (For Attaching The Photos Of Generator Readings)

2 Separate Fields For Attachments Are Required: 1. Run Time Photo, 2. Fuel Level Photo.

Run Time Photo:



Fuel Level Photo:



5. Fuel Tank Capacity*(Fixed As Per Respective Branches)

BRANCH	FUEL TANK CAPACITY IN LITERS
AHEMADNAGAR	200
AKLUJ	160
ATHANI	150
BARAMATI	170 BMT GOLD
BHOSARI	170
CHANDANNAGAR	100
CHINCHWAD	300
HADAPSAR	260
KARAD	170
KOLHAPUR	200
KOTHRUD	230
MIDC	230
NASHIK	230
PUNE	260
SANGAMNER	150
SANGLI	230
SATARA	120
SATARA ROAD	NO GENERATOR

Calculations & Formulas:

As per our requirements, we need calculated export excel option.

For that, kindly refer the calculations, formulas & excel format.

STEPS TO CALCULATE THE AVERAGE OF GENERATOR FUEL CONSUMPTION PER HOUR
1. To calculate the generator's fuel consumption per hour, we need to know the change in fuel level over time.
2. First calculate the change in fuel level from before & after readings for e.g., 82% (before) - 78% (after) = 4%
4. We need to convert the run time to hours for both before & after readings for e.g., 1665 hours & 6 minutes = 1665.1 hours. The formula to convert the hours & minutes to (only) hours in decimal form is, for eg: 1665 hours & 6 mins can be converted using $1665 + (6/60) = \text{Decimal Hours}$
4. Fuel consumed = Fuel Level change x fuel tank capacity, for example 100 liters is the capacity of the tank, Fuel consumed = 4% x 100 liters = 4 liters
5. Finally we can calculate the average fuel consumption per hour over the period: Total run time = 1665.1 hours + 1666.48 hours = 3331.58 hours. Average fuel consumption per hour = Fuel consumed / total run time. Average fuel consumption per hour = 4 liters / 3331.58 hours. Average fuel consumption per hour = 0.0012 liters per hour

BEFORE GENERATOR FUEL LEVEL	AFTER GENERATOR FUEL LEVEL	CHANGE IN FUEL LEVEL (BEFORE - AFTER)	BEFORE RUN TIME (CONVERTED IN HOURS)	AFTER RUN TIME (CONVERTED IN HOURS)	TOTAL RUN TIME IN HOURS (BEFORE + AFTER)	FUEL LEVEL CONSUMED IN LITERS (FUEL LEVEL CHANGE X FUEL TANK CAPACITY)	AVERAGE FUEL CONSUMPTION PER HOUR (Average Fuel Consumption Per Hour = Fuel Consumed / Total Run Time)
82%	78%	4%	1665.1	1666.48	3331.58	4	0.0012

Export Excel Format:

SR.NO.	BRANCH	DATE OF REFILL	DATE OF REPORTING	FUEL LEVEL BEFORE REFILL	RUN TIME BEFORE REFILL	FUEL LEVEL AFTER REFILL	RUNTIME AFTER REFILL	FUEL TANK CAPACITY	DIESEL FILLED	FUEL LEVEL CONSUMED IN LITERS (FUEL LEVEL CHANGE X FUEL TANK CAPACITY)	AVERAGE FUEL CONSUMPTION PER HOUR (Average Fuel Consumption Per Hour = Fuel Consumed / Total Run Time)

For any queries, kindly get in touch with Mr. Rushikesh Thorat, Ms. Ruchi Peshave from Operations Department, Pune HO.