

DILSHAD GARDEN METRO STATION (Delhi)

Unit Profile

Dilshad Garden metro station is elevated station situated in the National Capital Territory of Delhi. This is presently a terminal station of Line-1 (Red Line). It has side platform and approximately footfall of 71,678 per day (Sep-2016). The station is constructed in three level i.e. ground, concourse and platform level. The station has 02 nos. entry/ exits. Phase-III project extension of this line is under taken from Dilshad Garden metro station towards New Ghaziabad Bus Stand and 08 new stations shall be added which includes adjoining state of Uttar Pradesh. Approximately energy consumption per day in summer is 1660 KWH and in winter 1087 KWH (excluding commercial area).



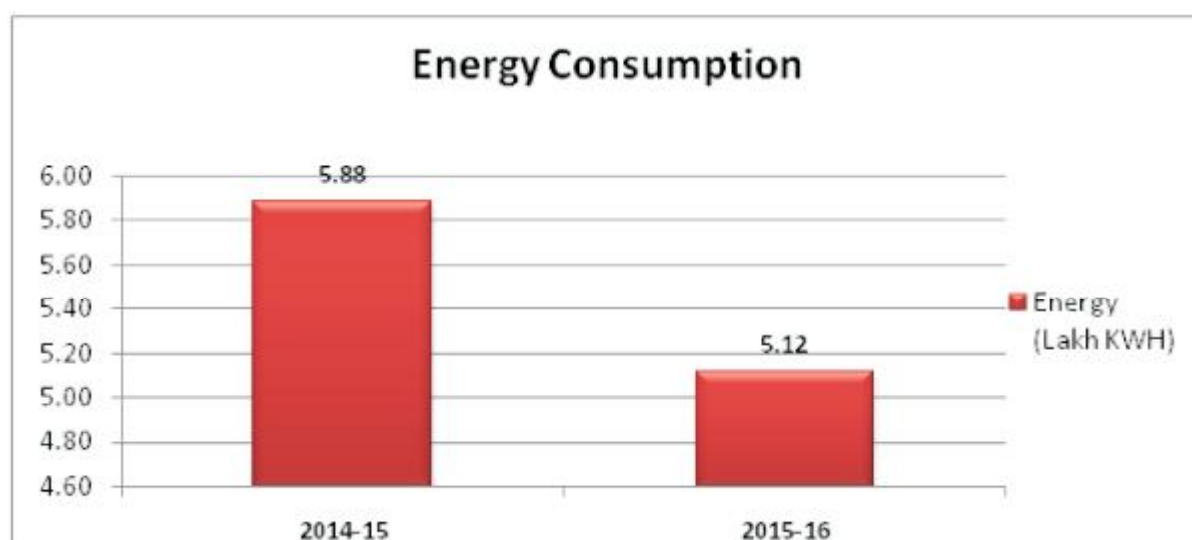
At a glance position of Dilshad Garden (RC) Metro Station:-

S.No.	Description	Details
1	Revenue Opening Date	04th June-2008
2	Structure Type	Elevated (Three level)
3	Platforms	Side Platforms
4	Average Ridership on daily basis	35,830
5	Average Daily Earning	Rs. 6,96,155 (Sep-2016)
6	Average Footfall daily	71,678 (Sep-2016)
7	No. of Signaling points	6
8	No. of Escalators	02
9	No. of Elevators	03

Major Energy Statics at Dilshad Garden Metro Station:-

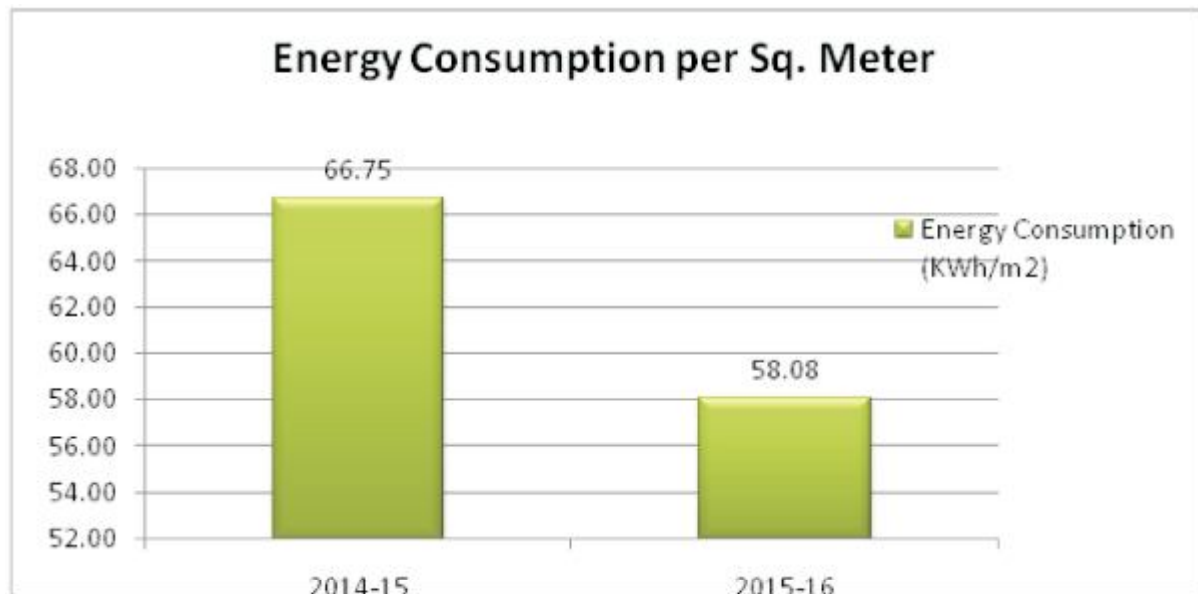
S.No.	Description	Details
1	Total Station Load	305 KW
2	Total Yearly consumption	512044 KVAH
3	Total Tonnage of AC installed	48 TR
4	Diesel Generators	180 KVA (01 no.)

Energy Consumption



Specific Energy Consumption

Energy Consumption per Sq. Meter



Energy Saving Standards

1. Out of the total 03 nos. auxiliary transformers, one transformer supplies power supply to station load at a time and second auxiliary transformer is kept cold stand by. The third auxiliary transformer supplies power supply to PD load.
2. All the lighting load of the station is controlled through astronomical timers.
3. The speed of the escalator is kept approximately 70% slower than normal speed under idle condition.
4. The lifts and Escalators are ON/OFF through timers just 15 mins prior/beyond the station operation hours.
5. Automatic power factor controllers are installed in Main Distribution Board (Electrical) of the Station.
6. Further to improve the energy efficiency split and window air-conditioning of station are replaced with Variable Refrigerant Volume (VRV) air-conditioning system, which is completed on Feb-2016 and its effect in energy conservation in 2015-16 is negligible.

KASHMERE GATE (METRO CORRIDOR) METRO STATIONS (Delhi)

Station Profile

Kashmere Gate (KGM) underground is an interchange and interlock station of Delhi Metro Rail Corporation (DMRC) network. It is junction of Red line and yellow line. This station serves to historic Kashmiri gate area of Delhi. It has island type platform and approx footfall of **3.5 lacs** per day. It has highest number of escalators in DMRC network and also has longest escalator of network. Approx energy consumption per day in summer is **17MWH** and in winter is **8 MWH**. As it is underground station, air ventilation system is provided.



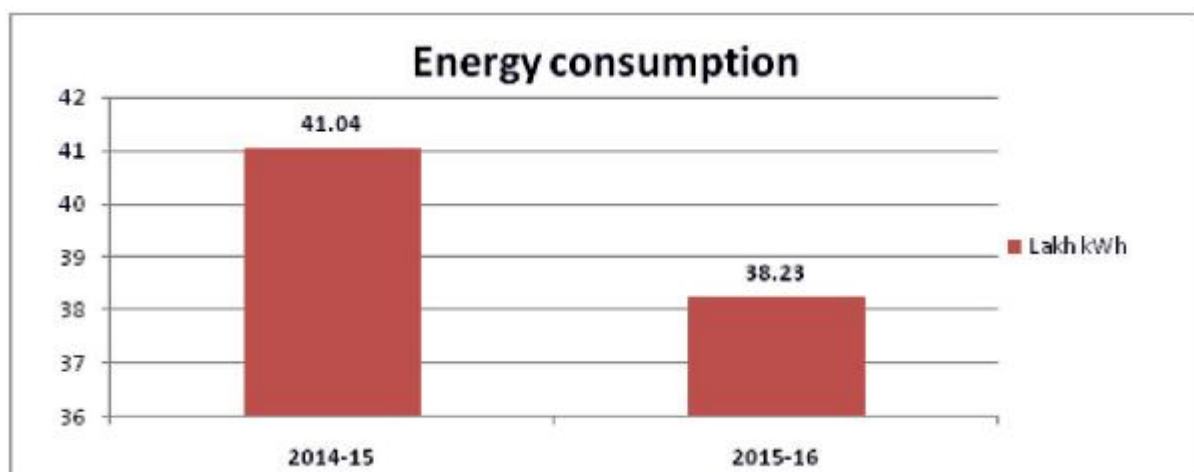
At a glance position of Kashmere Gate (U/G) Metro Station:-

S.No.	Description	Details
1	Revenue Opening Date	19 th Sep. 2004
2	Structure Type	Underground (Interchanging)
3	Platforms	Side Platform (Iceland type)
4	Average Ridership on daily basis	35556
5	Average Daily Earning	Rs 585344
6	Average Footfall daily	350000
7	No. of Signaling points	2
8	No. of Escalators	18
9	No. of Elevators	02

Major Equipments at Kashmere Gate:

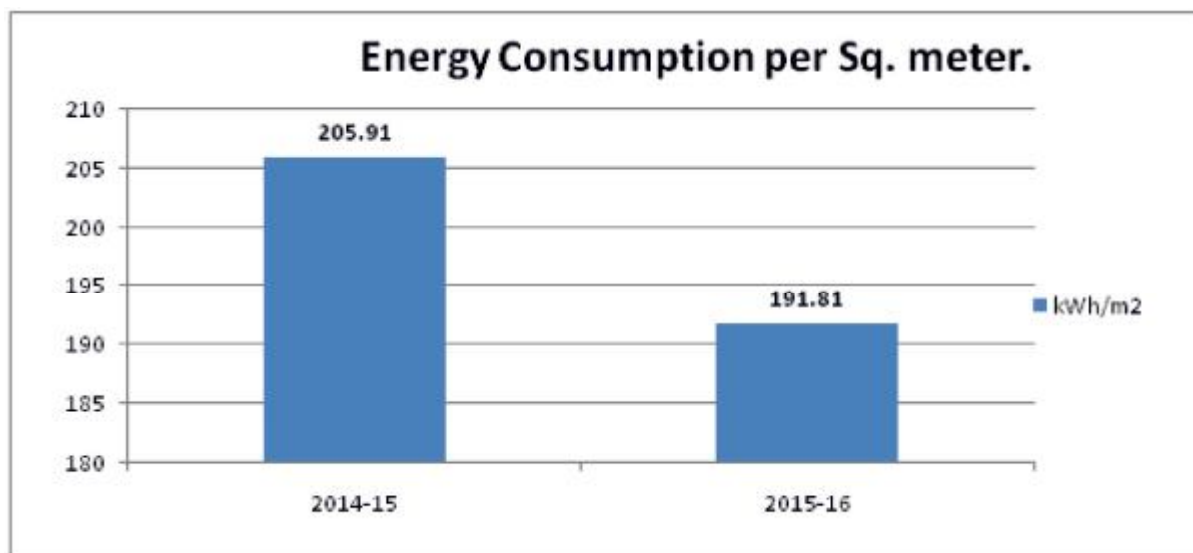
S.No.	Description	Details
1	Total Station Load	3860 KW
2	Average Total Yearly consumption	13692 KVAH
3	Total Tonnage of WCC	1680 TR (4 Chillers, 3 Nos- 450 TR, 1 No. 330 TR)
4	Diesel Generators	2000 KVA (2 Nos, 1000 Each)

Energy Consumption



Specific Energy Consumption

Energy Consumption per Meter² Year 2014-15 & 2015-16



Major Energy Conservation initiatives taken in FY 2015-16:

S. No	Project description	Saving		Investment Occurred
		Electricity	Rs. Saving	
1	Customized operation of Environment Control System (ECS) without affecting passengers comfort			Nil
1a	Saving in Chillers & Cooling Towers by water quality and approach	96390	678510	Nil
1b	Saving in Air Handling Units (AHU) by customize the run hrs	85270	577990	Nil
1c	Saving in Trackway Exhaust Fan(TEF) by customize the run hrs	61030	427210	Nil
2	Customization of Escalator operation, one escalator kept stop at 20:00 where are two escalators are provided.	26000	182000	Nil
3	Cut waste full lighting-Limit Switch is provided in Back of House plant rooms and Lights switched on as per requirement.	15000	105000	25000 Rs.
Total				