

**GOVERNMENT OF INDIA  
MINISTRY OF HOUSING AND URBAN AFFAIRS  
RAJYA SABHA  
UNSTARRED QUESTION NO. 1187  
TO BE ANSWERED ON FEBRUARY 13, 2023**

**FINANCIAL HEALTH OF METRO RAILS IN THE COUNTRY**

**NO. 1187. SHRI S NIRANJAN REDDY:**

**Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:**

- (a) the number of metro systems in the country which are currently running in losses, and steps taken by Government to turn them profitable;
- (b) the number of metro systems that have raised money through bond market in last five years to finance capital costs as noted in the Metro Rail Policy, 2017, and to what extent; and
- (c) whether the 13<sup>th</sup> Report of the Parliamentary Standing Committee on Housing and Urban Affairs had recommended that Government should encourage metros to mandatorily source their power from renewables to the extent possible, if so, the number of metros which are doing the same, the details thereof?

**ANSWER**

**THE MINISTER OF STATE IN THE  
MINISTRY OF HOUSING AND URBAN AFFAIRS  
(SHRI KAUSHAL KISHORE)**

- (a) A total of 08 (Eight) operational metro rail corporations in the country, which are 50:50 Joint Venture Special Purpose Vehicles (SPVs) of the Central Government and concerned State Government, are currently running in losses.

Government of India has issued Metro Rail Policy-2017 for systematic planning and implementation of metro rail systems in comprehensive and sustainable manner. To boost the earnings, the policy mandate the adoption of innovative financing through Transit Oriented Development (TOD), Value Capture Finance (VCF), Commercial/Property Development, Advertisements, Leasing of space etc. To incentivize metro rail ridership, the Policy focuses on inclusion of provision of feeder systems, last mile connectivity through pedestrian pathways, non-Motorized Transport (NMT) infrastructure etc in metro rail proposals.

(b) None of the metro rail corporation, which are 50:50 Joint Venture Special Purpose Vehicles (SPVs) of the Central Government and concerned State Government, has raised money through bond market in last five years to finance capital costs.

(c) Yes, Sir. The steps taken by various operational metro rail corporations, which are 50:50 Joint Venture Special Purpose Vehicles (SPVs) of the Central Government and concerned State Government, for sourcing their power requirement from renewable energy sources, are given in Annexure I.

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ANNEXURE REFERRED TO IN REPLY TO PART (c) OF THE RAJYA SABHA QUESTION NO. 1187 FOR ANSWER ON 13.02.2023 REGARDING FINANCIAL HEALTH OF METRO RAILS IN THE COUNTRY

STEPS TAKEN BY VARIOUS METRO RAIL CORPORATIONS FOR SOURCING THEIR POWER REQUIREMENT FROM RENEWABLE ENERGY SOURCES

Sr No	Name of Metro Rail Corporation	Steps taken for sourcing power requirement from renewable energy sources
1	Delhi Metro Rail Corporation Ltd (DMRC)	DMRC has informed that they are meeting 65% of its day time energy requirements from renewable sources of energy since December, 2019 and efforts to harness solar energy from rooftop solar plants were initiated in August 2014 itself. All future elevated stations and depots are planned with rooftop solar plants.
2	Bangalore Metro Rail Corporation Limited (BMRCL)	BMRCL has informed that out of the average daily power consumption of 3,80,344 units, about 5344 units is generated by Rooftop Photovoltaic System (Solar power) of 1.5 MW capacity which is currently installed at 5 stations of Reach-4 Extension. Further, contract has been awarded to M/s Solar Quest LLB for 20MW capacity under RESCO models. With this about 11.2 % power requirement will be from the renewable source.
3	Chennai Metro Rail Limited (CMRL)	CMRL has informed that the total installed capacity of renewable sources of energy (solar) in Chennai Metro is 6.4 MW. The total solar power consumption was 6.15 % of total energy consumption of CMRL over last year.
4	Uttar Pradesh Metro Rail Corporation Limited (UPMRCL)	UPMRCL has informed that solar panels of 1 MW are installed at Lucknow Metro.
5	Kochi Metro Rail Limited (KMRL)	KMRL has informed that they are utilising renewable energy in the form of solar. KMRL has installed solar capacity of 10.58 MW which is giving 50% of energy neutrality.
6	Gujarat Metro Rail Corporation Limited (GMRCL)	GMRC has informed that they have installed capacity of 200 KW rooftop solar panels.
7	Maharashtra Metro Rail Corporation Limited (Maha Metro)	Nagpur Metro has informed that they have installed 4.5 MWp capacity rooftop solar panels.
8	Noida Metro Rail Corporation Limited (NMRC)	NMRC has informed that they have engaged private developer to provide the solar power at the rate of Rs. 3.25 per KWH for 25 years at NMRC locations.