



Monitoring report form for CDM project activity
(Version 07.0)

Complete this form in accordance with the instructions attached at the end of this form.

MONITORING REPORT

Title of the project activity	Energy Efficiency measures in DMRC Phase III elevated stations	
UNFCCC reference number of the project activity	GS I.D. 4634	
Version number of the PDD applicable to this monitoring report	GS PDD version 02 dated 26/12/2017	
Version number of this monitoring report	02	
Completion date of this monitoring report	16/06/2021	
Monitoring period number	GS Monitoring Period: 01	
Duration of this monitoring period	GS Monitoring Period Duration: 01/06/2018 to 31/05/2019	
Monitoring report number for this monitoring period	01	
Project participants	Delhi Metro Rail Corporation Ltd. (A Public Entity)	
Host Party	India	
Applied methodologies and standardized baselines	AMS-II.E - "Energy efficiency and fuel switching measures for buildings", Version 10	
Sectoral scopes	3	
Amount of GHG emission reductions or net anthropogenic GHG removals achieved by the project activity in this monitoring period	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013
	0 tCO ₂ e	3,804 tCO ₂ e
Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD	6,374 tCO ₂ e	

SECTION A. Description of project activity**A.1. General description of project activity**

>> Energy Efficiency measures at DMRC Phase III elevated stations (hereafter referred to as the "Project") developed by Delhi Metro Rail Corporation Ltd. (hereafter referred to as the DMRC). The project involves implementation of energy efficiency measures at 66 elevated stations of Phase III of Delhi Metro managed by DMRC. The commissioning date of these stations is mentioned in Annexure-1.

A.2. Location of project activity

>> The project activity has been implemented in Delhi/NCR. It includes 66 over-ground (elevated) metro station buildings forming a part of Phase III of Delhi Metro. The geographical coordinates for all the stations have been given below:

S. No.	Station Name	Line	Latitude	Longitude
1.	Rohini Sec-18	Line-2 Ext	28°44'17.89"N	77° 8'23.61"E
2.	Badli	Line-2 Ext	28°44'40.54"N	77° 8'18.08"E
3.	Badli Mor	Line-2 Ext	28°43'48.99"N	77° 8'58.58"E
4.	MIE	Line 5 Ext	28°41'22.34"N	76°56'52.19"E
5.	Bus Stand	Line 5 Ext	28°41'26.59"N	76°56'8.74"E
6.	City Park	Line 5 Ext	28°41'56.36"N	76°54'59.62"E
7.	Ghevra	Line 5 Ext	28°41'6.53"N	76°59'39.48"E
8.	Tikri Kalan	Line 5 Ext	28°41'13.71"N	76°58'16.67"E
9.	Tikri Border	Line 5 Ext	28°41'17.49"N	76°57'38.17"E
10.	Sarai	Line 6 Ext	28°28'20.67"N	77°18'21.67"E
11.	NHPC	Line 6 Ext	28°27'41.87"N	77°18'24.63"E
12.	Mewala Maharajpur	Line 6 Ext	28°27'1.02"N	77°18'28.08"E
13.	Sector 27A	Line 6 Ext	28°26'0.26"N	77°18'33.87"E
14.	Ajronda	Line 6 Ext	28°23'42.34"N	77°18'44.44"E
15.	Faridabad New Town	Line 6 Ext	28°22'51.36"N	77°18'49.15"E
16.	YMCA Chowk	Line 6 Ext	28°22'6.27"N	77°18'52.98"E
17.	Old Faridabad	Line 6 Ext	28°24'38.66"N	77°18'40.34"E
18.	Badkhal More	Line 6 Ext	28°25'34.31"N	77°18'35.52"E
19.	Sadar Bazar	Line 8	28°34'37.65"N	77° 6'36.70"E
20.	Shankar Vihar	Line 8	28°34'4.52"N	77° 7'34.75"E
21.	Okhla Phase-III	Line 8	28°33'19.76"N	77°16'0.29"E
22.	Ishwar Nagar	Line 8	28°33'31.38"N	77°16'21.87"E
23.	Jamia Nagar	Line 8	28°33'39.66"N	77°16'58.29"E
24.	Okhla Vihar	Line 8	28°33'23.39"N	77°17'33.67"E
25.	Jasola Vihar	Line 8	28°32'47.40"N	77°17'47.30"E
26.	Kalindi Kunj	Line 8	28°32'42.81"N	77°18'21.68"E
27.	Amity Noida	Line 8	28°33'20.06"N	77°19'28.46"E

28.	Mukundpur	Line 7	28°43'53.33"N	77°10'59.17"E
29.	Shakurpur	Line 7	28°40'59.72"N	77° 8'46.68"E
30.	ESI Hospital	Line 7	28°39'31.55"N	77° 7'42.85"E
31.	Mayapuri	Line 7	28°38'17.43"N	77° 7'47.76"E
32.	Delhi Cantt	Line 7	28°36'47.31"N	77° 8'12.29"E
33.	Moti Bagh	Line 7	28°35'5.50"N	77°10'21.56"E
34.	Mayur Vihar Pkt-1	Line 7	28°36'26.84"N	77°18'14.77"E
35.	Trilokpuri	Line 7	28°36'45.58"N	77°18'22.32"E
36.	East Vinod Nagar	Line 7	28°37'21.75"N	77°18'13.92"E
37.	Vinod Nagar	Line 7	28°37'38.90"N	77°19'2.54"E
38.	I P Extension	Line 7	28°38'11.18"N	77°18'51.14"E
39.	Krishna Nagar	Line 7	28°39'40.00"N	77°17'15.71"E
40.	East Azad Nagar	Line 7	28°39'58.83"N	77°17'1.22"E
41.	Jaffrabad	Line 7	28°40'33.86"N	77°16'17.46"E
42.	Maujpur	Line 7	28°41'19.31"N	77°16'40.16"E
43.	Gokulpuri	Line 7	28°42'6.12"N	77°17'1.29"E
44.	Shiv Vihar	Line 7	28°43'19.19"N	77°17'21.70"E
45.	Johri Enclave	Line 7	28°42'38.87"N	77°17'27.06"E
46.	Panjabi Bagh West	Line 7	28°40'18.91"N	77° 7'40.81"E
47.	Karkarduma Court	Line 7	28°39'13.27"N	77°17'46.85"E
48.	Dhaura Kuan	Line 7	28°35'34.71"N	77° 9'46.25"E
49.	Nangli	Line 3 Ext	28°35'23.69"N	77°15'18.95"E
50.	Ballabgarh	Line 6 Ext	28°33'54.18"N	77°10'14.92"E
51.	NCB	Line 6 Ext	28°21'8.67"N	77°19'3.03"E
52.	Dwarka	Line 3 Ext	28°36'54.12"N	77° 1'21.82"E
53.	Rajouri Garden	Line 7	28°38'56.49"N	77° 7'21.79"E
54.	Mayur Vihar I	Line 7	28°36'15.96"N	77°17'21.71"E
55.	Anand Vihar	Line 7	28°38'50.18"N	77°18'55.76"E
56.	Karkarduma	Line 7	28°38'57.74"N	77°18'21.86"E
57.	Welcome	Line 7	28°40'21.02"N	77°16'36.76"E
58.	Botanical Garden	Line 8	28°33'49.24"N	77°20'2.37"E
59.	Shahid Nagar	Line 1 Ext	28°40'35.8"N	77°20'01.8"E
60.	Raj Bagh	Line 1 Ext	28°40'37.3"N	77°24'47.3"E
61.	Rajendra Nagar	Line 1 Ext	28°40'39.4"N	77°24'31.1"E
62.	Shyam Park	Line 1 Ext	28°40'41.5"N	77°22'14.5"E
63.	Mohan Nagar	Line 1 Ext	28°40'42.5"N	77°24'02.9"E
64.	Arthala	Line 1 Ext	28°40'36.4"N	77°24'32.8"E
65.	Hindon River	Line 1 Ext	28°40'24.14"N	77°24'23.66"E
66.	New Bus Adda	Line 1 Ext	28°40'12.8"N	77°24'59.2"E



A.3. Parties and project participants

Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (Host Party)	Delhi Metro Rail Corporation Ltd. (A Public Entity)	No

A.4. References to applied methodologies and standardized baselines

>> Title: AMS-II.E. "Energy efficiency and fuel switching measures for buildings"
Version: 10.
The methodology is available at following link:
<https://cdm.unfccc.int/methodologies/DB/P4PO65N66CEQGPE2RJU15FIVB7AX4A>

A.5. Crediting period type and duration

>> Fixed Crediting Period: 10 years starting from 01/06/2018

SECTION B. Implementation of project activity**B.1. Description of implemented project activity**

>> The project activity involves energy efficiency measures undertaken by Delhi Metro Rail Corporation (DMRC) in a number of station buildings forming a part of Delhi Metro Phase III. The energy efficiency measures have been undertaken primarily in the Air Conditioning system, lighting system and other energy efficient measures of station buildings. The measures adopted in the Air Conditioning system result in reduction in electrical energy consumption, in comparison to that for a station building forming a part of Phase I of Delhi Metro. Also, a number of architectural design considerations were incorporated in Phase III station which resulted in lower energy consumption.

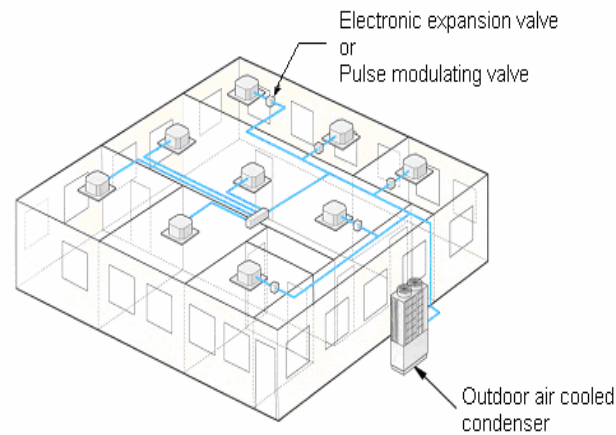
Energy efficient measures adopted by DMRC in its Phase III stations are as follows:

1. T-5 tube lights with along with LED will be used on Elevated stations. Every 4th light is LED type and no incandescent lamps will be used for lighting.
2. Variable Voltage Variable Frequency (VVVF) control drive system in Lifts & Escalators, which matches the power requirements with actual load. The Escalators will be installed with idling speed of 0.2 m/sec against the normal operating speed of 0.5m/sec or 0.65m/sec. This has resulted in estimated energy saving of 1%.
3. VRV Chillers:
One of the main energy efficiency measures is the implementation of energy efficient VRV (Variable refrigerant volume) type Chillers under Phase III of DMRC. In Phase I the Split type chillers are used for cooling purposes, whereas in the Phase III more energy efficient VRV type chillers will be used for air-conditioning. VRV (Variable refrigerant volume) is an air-condition system for commercial building application with sophisticated individual zone control. VRV is a system which means "variable refrigerant volume". In principle it is extremely efficient, reliable, energy saving way to heat and cool all types of buildings with minimum installation time or disruption. Conventional system conditions the air in a building as a whole, whereas the VRV system conditions the air in each room individually. Hence it is ideal for the constantly changing occupancy of a typical building. Even further, precise level control is possible that reacts to the exact conditions in each room.

The VRV System comprises of1:

- Outdoor air cooled condensing units
- Indoor fan-coil units
- Simple refrigerant copper piping
- Power and control cables and
- Remote and centralized controllers for operating the system

¹ <http://www.daikintanzania.com/vrv.asp>



4. Maximum utilization of daylight in stations



Figure 2: Maximum daylight utilization in stations

5. Implementation of Sun Film: Sun films will be used which reduce solar heat gain on ECS system.

Thus all these measures lead to tremendous amount of energy savings. Since the project uses more energy efficient systems as compared to Phase I of Delhi Metro, it will consume less electricity and thus results in reduction of Carbon dioxide (CO₂) emissions.

B.2. Post-registration changes

B.2.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

>> Not Applicable

B.2.2. Corrections

>> Not Applicable

B.2.3. Changes to the start date of the crediting period

>> Not Applicable

B.2.4. Inclusion of monitoring plan

>> Not Applicable

B.2.5. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

>> Not Applicable

B.2.6. Changes to project design

>> Not Applicable

B.2.7. Changes specific to afforestation or reforestation project activity

>> Not Applicable

SECTION C. Description of monitoring system

>> DMRC proposes the following structure for data monitoring, collection, data archiving and calibration of equipment for this project activity. DMRC will be the responsible entity for all monitoring and would set the procedures verifying the VERs generated by the power project annually.

Monitoring Plan Objective and Organization

The project proponent (DMRC) will monitor the electricity consumed in all the station buildings forming the part of project activity. The data will be archived electronically and be stored for 2 years after the end of the crediting period.

To ensure that the data is reliable and transparent, the project entity will also establish Quality Assurance and Quality Control (QA&QC) measures to effectively control and manage data reading, recording, auditing as well as archiving data and all relevant documents. The data will be monitored on a monthly basis and will be submitted to Quality Assurance team of project proponent.

Quality Assurance and Quality Control

QA&QC procedures for recording, maintaining and archiving data shall be implemented as part of this Gold Standard project activity.

The project proponent will implement QA&QC measures to ensure the accuracy of metering and safety aspects of the project operation. The metering devices will be inspected properly and periodically, according to state electricity board's specifications and requirements to ensure accuracy in the readings.

Data Storage and Archiving

In order to facilitate auditors' reference and for any future requirement, relevant literature relating to the project such as the project material and monitoring results will be indexed. All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of VERs for this project activity, whichever occurs later. The data will be maintained in both electronic and paper formats. The data will be stored in following manner:

A copy of data will be maintained in electronic and paper format on-site for anytime reference and validation. The energy consumption per station data and calibration certificates of all stations will be maintained in the E&M Division of DMRC, Metro Bhawan. The operational area for each station will be stored in the Civil Division of DMRC, Metro Bhawan.

A copy of data will be stored in paper format by project operator in their branch office in safe storage.

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante

(Copy this table for each data or parameter.)

Data/Parameter	EF _y
Unit	t CO ₂ /MWh
Description	CO ₂ emission factor for the NEWNE grid
Source of data	CEA published grid emission factors
Value(s) applied	0.9837 tCO ₂ /MWh
Choice of data or measurement methods and procedures	Central Electricity Authority (CEA) database, version 9 dated January 2014 values have been used for authenticity of the data, available publicly by Govt of India with a view to obtain uniformity of approach in the country towards a common objective.
Purpose of data/parameter	Baseline
Additional comments	http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm

Data/Parameter	EC _{BL,m}
Unit	kWh
Description	Energy consumption in the baseline stations in a given month
Source of data	Existing records for Delhi Metro Phase I provided by DMRC
Value(s) applied	Detailed in Annex 3
Choice of data or measurement methods and procedures	The energy consumption data has been taken from the existing records maintained by DMRC on electricity consumption for the year 2012, 2013 and 2014 in the stations covered under Phase I of Delhi Metro.
Purpose of data/parameter	Baseline
Additional comments	

Data/Parameter	A _{BL}
Unit	Sq. m
Description	Area of all the stations included in baseline stations of Phase I
Source of data	Delhi Metro Phase I records provided by DMRC Limited
Value(s) applied	Detailed in Annex 3
Choice of data or measurement methods and procedures	The area of the stations has been taken from the records maintained by DMRC Limited
Purpose of data/parameter	Baseline
Additional comments	

Data/Parameter	η _{BL,m}
Unit	kWh/sqm

Description	Average per sqm Energy Consumption factor for the Baseline Stations in the given month for the year 2012,2013 and2014																											
Source of data	Calculated																											
Value(s) applied	<table border="1"> <thead> <tr> <th>Month</th> <th>Energy Consumption Factor for the baseline (in kWh/sqm)</th> </tr> </thead> <tbody> <tr><td>January</td><td>4.85</td></tr> <tr><td>February</td><td>4.52</td></tr> <tr><td>March</td><td>5.15</td></tr> <tr><td>April</td><td>5.45</td></tr> <tr><td>May</td><td>5.97</td></tr> <tr><td>June</td><td>6.10</td></tr> <tr><td>July</td><td>6.00</td></tr> <tr><td>August</td><td>5.93</td></tr> <tr><td>September</td><td>5.71</td></tr> <tr><td>October</td><td>5.66</td></tr> <tr><td>November</td><td>4.95</td></tr> <tr><td>December</td><td>4.92</td></tr> </tbody> </table>	Month	Energy Consumption Factor for the baseline (in kWh/sqm)	January	4.85	February	4.52	March	5.15	April	5.45	May	5.97	June	6.10	July	6.00	August	5.93	September	5.71	October	5.66	November	4.95	December	4.92	
Month	Energy Consumption Factor for the baseline (in kWh/sqm)																											
January	4.85																											
February	4.52																											
March	5.15																											
April	5.45																											
May	5.97																											
June	6.10																											
July	6.00																											
August	5.93																											
September	5.71																											
October	5.66																											
November	4.95																											
December	4.92																											
Choice of data or measurement methods and procedures	This is a calculated parameter.																											
Purpose of data/parameter	Baseline																											
Additional comments																												

D.2. Data and parameters monitored

(Copy this table for each data or parameter.)

Data/Parameter	EC _{PJ,m}
Unit	kWh
Description	Energy Consumption for all the stations included in project activity
Measured/calculated/default	Measured and Calculated
Source of data	Site Records maintained by DMRC on electricity consumption for all the stations covered by the project activity and are part of Phase III of Delhi Metro
Value(s) of monitored parameter	1,68,58,783 kWh*
Monitoring equipment	Energy meter measures the electricity consumption continuously.
Measuring/reading/recording frequency	The data will be measured continuously and will be recorded every month for all the station buildings using electricity meter in log books.
Calculation method (if applicable)	The monthly readings are calculated in Excel Sheet, which are then calculated for a year.
QA/QC procedures	The electricity would be maintained in line with the state electricity board's requirement.
Purpose of data/parameter	The data is used for Baseline emission calculation.
Additional comments	The data archived will be maintained for crediting period +2 years. The data archiving will be done on both paper and electronically. *In Emission Reduction (ER) calculation sheet, energy consumption for some stations included in the project activity is mentioned as O (Zero). This is done because some stations were not operational during that period or the energy was not recorded for that period.

Data/Parameter	A _{ST}
Unit	Sq. m
Description	Area of all the stations included in project activity
Measured/calculated/default	Measured and Calculated
Source of data	Delhi Metro Phase III records provided by DMRC Limited
Value(s) of monitored parameter	5,55,195 sq. m.
Monitoring equipment	Not Applicable
Measuring/reading/recording frequency	The area of the stations will be taken from the records maintained by DMRC Limited
Calculation method (if applicable)	Not Applicable
QA/QC procedures	The area of all the stations included in the project activity is taken from the records maintained by DMRC.
Purpose of data/parameter	The data is used for Baseline emission calculation.
Additional comments	

D.3. Implementation of sampling plan

>> Not Applicable

SECTION E. Calculation of emission reductions or net anthropogenic removals

E.1. Calculation of baseline emissions or baseline net removals

>> For estimating baseline energy consumption; the consumption units per square meter of built-up area for each month have been averaged for the years 2012, 2013 and 2014 for Phase I stations (baseline energy consumption per sqm). Assuming that the project activity had not been executed, the Phase III stations would have installed the energy consuming equipments as in Phase I. In such a scenario, the energy consumed by Phase III stations have been calculated by multiplying the built-up area of each operational station with baseline energy consumption per sqm in absence of project systems. Thus this gives the energy consumption in baseline stations (Phase III) in absence of project activity.

Estimation of Per Unit Energy Efficiency Factor for Project Stations:

$$\eta_{PJ,m} = \sum_{ST=1}^{ST=n} (EC_{PJ,m} + A_{PJ})$$

Where:

- $\eta_{PJ,m}$ = Per Unit Energy Consumption factor for the Project Stations for a given month m
 ST = Station included in the project activity
 $EC_{PJ,m}$ = Energy Consumption for stations included in project activity (in kWh)
 A_{PJ} = Area of stations included in project activity (in sq.m)

Estimation of Per Unit Energy Efficiency Factor for Baseline Stations

$$\eta_{BL,m} = \left(\sum_{ST,BL=1}^{ST,BL=n} EC_{BL,m} \right) \div \left(\sum_{ST,BL=1}^{ST,BL=n} A_{BL} \right)$$

Where:

- $\eta_{BL,m}$ = Average per Unit Energy Consumption factor for the Baseline Stations for a given month m of year 2012, 2013 and 2014
- ST = Station included in the baseline
- $EC_{BL,m}$ = Energy Consumption for all the stations included in baseline stations of Phase I (in kWh)
- A_{BL} = Area of all the stations included in baseline stations of Phase I (in sq.m)

Month	Energy Consumption Factor for the baseline (in kWh/sqm)
January	4.85
February	4.52
March	5.15
April	5.45
May	5.97
June	6.10
July	6.00
August	5.93
September	5.71
October	5.66
November	4.95
December	4.92

Estimation of per Unit Energy Efficiency Factor:

$$\eta_{f,m} = \eta_{BL,m} - \eta_{PJ,m}$$

Where:

- $\eta_{f,m}$ = Per sqm Energy savings of the project station
- $\eta_{BL,m}$ = Average per sqm Energy Consumption factor for the Baseline Stations in the given month m for the year 2012, 2013 and 2014
- $\eta_{PJ,m}$ = Average per sqm Energy Consumption factor for the Project Activity in the given month m for the year.

Estimation of Energy Savings for a station in a given month:

$$ES_{ST} = \eta_{f,m} \times A_{ST,m}$$

Where:

- ES_{ST} = Energy Savings for a given station in a given month m (in kWh)
- $\eta_{f,m}$ = Per square meter savings in the given month m
- $A_{ST,m}$ = Operational area for a given station in a month m (in sq.m)

Estimation of Energy Savings in the given month m:

$$ES_m = \left(\sum_{ST=1}^{ST=n} ES_{ST} \right) \div 1000$$

Where:

ES_m = Total Energy Savings in a given month m (in MWh)
 ES_{ST} = Energy Savings for a given station in a given month m (in kWh)
 ST = Station included in the project activity

Estimation of Energy Savings in the given year y

$$ES_y = \sum_{m=1}^{m=n} ES_m$$

Where:

ES_y = Total Energy savings the given year y (in MWh)
 m = Month in the year y
 ES_m = Total Energy Savings in a given month m (in MWh)

Baseline emissions have been computed by multiplying the energy savings achieved and the emission coefficient for NEWNE grid.

For the period 01/06/2018 to 31/12/2018

$$\begin{aligned}
 BE_y &= ES_y * EF_y \\
 BE_y &= 2,237 * 0.9837 \\
 &= 2,200 \text{ tCO}_2 \text{ eq.}
 \end{aligned}$$

For the period 01/01/2019 to 31/05/2019

$$\begin{aligned}
 BE_y &= ES_y * EF_y \\
 BE_y &= 1,631 * 0.9837 \\
 &= 1,604 \text{ tCO}_2 \text{ eq.}
 \end{aligned}$$

For the period 01/06/2018 to 31/05/2019, $BE_y = 2,200 + 1,604 = 3,804 \text{ tCO}_2 \text{ eq.}$

E.2. Calculation of project emissions or actual net removals

>> Project does not have any project emissions, thus $PE_y = 0$.

E.3. Calculation of leakage emissions

>> Project does not have any leakage emissions, thus $LE_y = 0$.

E.4. Calculation of emission reductions or net anthropogenic removals

	Baseline GHG emissions or baseline net GHG removals (t CO ₂ e)	Project GHG emissions or actual net GHG removals (t CO ₂ e)	Leakage GHG emissions (t CO ₂ e)	GHG emission reductions or net anthropogenic GHG removals (t CO ₂ e)		
				Before 01/01/2013	From 01/01/2013	Total amount
Total	3,804	0	0	-	3,804	3,804

E.5. Comparison of emission reductions or net anthropogenic removals achieved with estimates in the registered PDD

Amount achieved during this monitoring period (t CO ₂ e)	Amount estimated ex ante for this monitoring period in the PDD (t CO ₂ e)
3,804	6,374

E.5.1. Explanation of calculation of “amount estimated ex ante for this monitoring period in the PDD”

>> As per the PDD, the ex-ante value for the monitoring period 01/06/2018 to 31/05/2019 is 6,374 tCO₂/year.

E.6. Remarks on increase in achieved emission reductions

>> Not Applicable

E.7. Remarks on scale of small-scale project activity

>> The project activity is not a small-scale project. It is a micro scale project, as the VERs generated in each year from this project activity are less than 10,000 tCO₂/year, which is the threshold limit for micro scale project criteria.

Annexure-1

S No.	Station Name	Line	Date of Commissioning
1.	Rohini Sec-18	Line-2 Ext	10.11.2015
2.	Badli	Line-2 Ext	10.11.2015
3.	Badli Mor	Line-2 Ext	10.11.2015
4.	MIE	Line 5 Ext	24.06.2018
5.	Bus Stand	Line 5 Ext	24.06.2018
6.	City Park	Line 5 Ext	24.06.2018
7.	Ghevra	Line 5 Ext	24.06.2018
8.	Tikri Kalan	Line 5 Ext	24.06.2018
9.	Tikri Border	Line 5 Ext	24.06.2018
10.	Sarai	Line 6 Ext	06.09.2015
11.	NHPC	Line 6 Ext	06.09.2015
12.	Mewala Maharajpur	Line 6 Ext	06.09.2015
13.	Sector 27A	Line 6 Ext	06.09.2015
14.	Ajronda	Line 6 Ext	06.09.2015
15.	Faridabad New Town	Line 6 Ext	06.09.2015
16.	YMCA Chowk	Line 6 Ext	06.09.2015
17.	Old Faridabad	Line 6 Ext	06.09.2015
18.	Badkhal More	Line 6 Ext	06.09.2015
19.	Sadar Bazar	Line 8	28.05.2018
20.	Shankar Vihar	Line 8	28.05.2018
21.	Okhla Phase-III	Line 8	25.12.2017
22.	Ishwar Nagar	Line 8	25.12.2017
23.	Jamia Nagar	Line 8	25.12.2017
24.	Okhla Vihar	Line 8	25.12.2017
25.	Jasola Vihar	Line 8	25.12.2017
26.	Kalindi Kunj	Line 8	25.12.2017
27.	Amity Noida	Line 8	25.12.2017
28.	Mukundpur	Line 7	14.03.2018
29.	Shakurpur	Line 7	14.03.2018
30.	ESI Hospital	Line 7	14.03.2018
31.	Mayapuri	Line 7	14.03.2018
32.	Delhi Cantt	Line 7	14.03.2018
33.	Moti Bagh	Line 7	06.08.2018
34.	Mayur Vihar Pkt-1	Line 7	31.12.2018
35.	Trilokpuri	Line 7	31.10.2018
36.	East Vinod Nagar	Line 7	31.10.2018

37.	Vinod Nagar	Line 7	31.10.2018
38.	I P Extension	Line 7	31.10.2018
39.	Krishna Nagar	Line 7	31.10.2018
40.	East Azad Nagar	Line 7	31.10.2018
41.	Jaffrabad	Line 7	31.10.2018
42.	Maujpur	Line 7	31.10.2018
43.	Gokulpuri	Line 7	31.10.2018
44.	Shiv Vihar	Line 7	31.10.2018
45.	Johri Enclave	Line 7	31.10.2018
46.	Punjabi Bagh West	Line 7	14.03.2018
47.	Karkarduma Court	Line 7	31.10.2018
48.	Dhaura Kuan	Line 7	14.03.2018
49.	Nangli	Line 3 Ext	04.10.2019
50.	Ballabgarh	Line 6 Ext	19.11.2018
51.	NCB	Line 6 Ext	19.11.2018
52.	Dwarka	Line 3 Ext	04.10.2019
53.	Rajouri Garden	Line 7	14.03.2018
54.	Mayur Vihar I	Line 7	31.12.2018
55.	Anand Vihar	Line 7	31.10.2018
56.	Karkarduma	Line 7	31.10.2018
57.	Welcome	Line 7	31.10.2018
58.	Botanical Garden	Line 8	25.12.2017
59.	Shahid Nagar	Line 1 Ext	09.03.2019
60.	Raj Bagh	Line 1 Ext	09.03.2019
61.	Rajendra Nagar	Line 1 Ext	09.03.2019
62.	Shyam Park	Line 1 Ext	09.03.2019
63.	Mohan Nagar	Line 1 Ext	09.03.2019
64.	Arthala	Line 1 Ext	09.03.2019
65.	Hindon River	Line 1 Ext	09.03.2019
66.	New Bus Adda	Line 1 Ext	09.03.2019

Annexure-2

S.No.	Station Name	Location of Energy meter	Meter Make	Serial No.	Date of Calibration
1	New Bus Adda	MDB	NEPTUNE	700034	Nov-18
2	Hindo River	MDB	NEPTUNE	7000201	Nov-18
3	Arthala	MDB	NEPTUNE	18121598	Nov-18
4	Mohan Nagar	MDB	NEPTUNE	193415705	Nov-18
5	Shyam Park	MDB	Ducati	7000247	Nov-18
6	Rajendra Nagar	MDB	Ducati	7000198	Nov-18
7	Raj Bagh	MDB	Ducati	7000239	Nov-18
8	Shahid Nagar	MDB	Ducati	7000227	Nov-18
9	SAMAY PUR BADLI	MDB	L&T	14079839	11-09-2015
10	ROHINI SEC-18	MDB	L&T	14092869	11-09-2015
11	BADLI MOR	MDB	L&T	16046561	11-09-2015
12	GHEVRA	MDB	Schneider Electric	340080026113	29-01-2017
13	TIKRI KALAN	MDB	Schneider Electric	340080025977	29-01-2017
14	TIKRI BORDER	MDB	Schneider Electric	340080025972	29-01-2017
15	MIE	MDB	Schneider Electric	340080026062	29-01-2017
16	BUS STAND	MDB	Schneider Electric	340080026041	29-01-2017
17	CITY PARK	MDB	Schneider Electric	340080025978	29-01-2017
18	Sarai	MDB	Schneider Electric	340080006636	14.07.2016
19	NHPC Chowk	MDB	Schneider Electric	340080006700	14.07.2016
20	Mewala Maharajpur	MDB	Schneider Electric	340080006679	14.07.2016
21	Sector 28	MDB	Schneider Electric	340080006616	14.07.2016
22	Badkal Mor	MDB	Schneider Electric	340080003417	14.07.2016
23	Old Faridabad	MDB	Schneider Electric	340080006670	14.07.2016
24	Neelam Chowk, Ajronda	MDB	Schneider Electric	340080006684	14.07.2016
25	Bata Chowk	MDB	Schneider Electric	340080006655	14.07.2016
26	Escorts Mujesar	MDB	Schneider Electric	340080006721	14.07.2016
27	NCB	MDB	Schneider Electric	340080025995	18.11.2018
28	Ballabgharh	MDB	Schneider Electric	340080026003	18.11.2018
29	MOTI BAGH	MDB/ASS	L&T	15003397	18.03.2020
30	Dhaura Kuan	MDB/ASS	L&T	14095219	12.12.2014
31	DELHI CANTT	MDB/ASS	L&T	14095253	31.12.2014
32	Mayapuri	MDB/ASS	L&T	14095205	12.12.2014

33	RAJOURI GARDEN	MDB/ASS	L&T	16113950	23.12.2016
34	ESI HOSPITAL	MDB/ASS	L&T	14092865	22.11.2014
35	PANJABI BAGH WEST	MDB/ASS	L&T	14095228	12.12.2014
36	SHAKURPUR	MDB/ASS	L&T	14095235	12.12.2014
37	MAJLISH PARK	MDB/ASS	L&T	14095233	23.09.2015
38	Mayur Vihar Pkt-1	MDB/ASS	L&T	17042158	19.04.19
39	Mayur Vihar I	MDB/ASS	L&T	15003410	19.04.19
40	Trilokpuri	MDB/ASS	L&T	15003470	19.04.19
41	East Vinod Nagar	MDB/ASS	L&T	15003498	19.04.19
42	Vinod Nagar	MDB/ASS	L&T	15003453	19.04.19
43	I P Extension	MDB/ASS	L&T	15003442	19.04.19
44	Anand Vihar	MDB/ASS	L&T	15003349	19.04.19
45	Karkarduma	MDB/ASS	L&T	15003364	19.04.19
46	Karkarduma court	MDB/ASS	L&T	15003342	19.04.19
47	Krishna Nagar	MDB/ASS	L&T	14095222	19.04.19
48	East Azad Nagar	MDB/ASS	L&T	18128161	19.04.19
49	Welcome	MDB/ASS	L&T	18128193	19.04.19
50	Jaffrabad	MDB/ASS	L&T	15003408	19.04.19
51	Maujpur	MDB/ASS	L&T	15003367	19.04.19
52	Gokulpuri	MDB/ASS	L&T	15003347	19.04.19
53	Johri Enclave	MDB/ASS	L&T	15003432	19.04.19
54	Shiv Vihar	MDB/ASS	L&T	15003468	19.04.19
55	OKHLA VIHAR	MDB	Schneider Electric	340080006598	02.06.2016
56	JAMIA NAGAR	MDB	Schneider Electric	340080016755	02.06.2016
57	SUKHDEV VIHAR	MDB	Schneider Electric	340080006599	02.06.2016
58	OKHLA NSIC	MDB	Schneider Electric	340080009731	02.06.2016
59	Botanical Garden	MDB	Schneider Electric	340080016738	26.03.2016
60	Okhla Bird Sanctuary	MDB	Schneider Electric	340080016748	27.03.2016
61	Kalindi Kunj	MDB	Schneider Electric	340080009730	04.09.2015
62	Jasola Vihar	MDB	Schneider Electric	340080016746	27.03.2016
63	Shankar Vihar	MDB(ASS)	Schneider Electric	340080009727	04.09.2015
64	Sadar Bazar	MDB(ASS)	Schneider Electric	3400800016770	04.09.2015
65	Nangli	MDB	Schneider Electric	540080041751	04-10-2019
66	Dwarka	MDB	Schneider Electric	540080041756	04-10-2019

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
07.0	31 May 2019	Revision to: <ul style="list-style-type: none"> • Ensure consistency with version 02.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN); • Add a section on remarks on the observance of the scale limit of small-scale project activity during the crediting period; • Add "changes specific to afforestation or reforestation project activity" as a possible post-registration changes; • Clarify the reporting of net anthropogenic GHG removals for A/R project activities between two commitment periods; • Make editorial improvements.
06.0	7 June 2017	Revision to: <ul style="list-style-type: none"> • Ensure consistency with version 01.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN); • Make editorial improvements.
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement.
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB 70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01.0	28 May 2010	EB 54, Annex 34. Initial adoption.

<i>Version</i>	<i>Date</i>	<i>Description</i>
----------------	-------------	--------------------

Decision Class: Regulatory
Document Type: Form
Business Function: Issuance
Keywords: monitoring report
