

TAMILNADU GENERATION & DISTRIBUTION CORPORATION LTD

From
Er.M.Balasubramanian B.E.,
Chief Engineer/NCES,
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✓ To
M/s. Nehru Memorial College,
Puthanampatti-621 007.
Trichy district.

Lr.No.CE/NCES/SE/Solar/EE/SCB/AEE3/F. Nehru Memorial /D. 10/9 /16 dated 24.06.2016.
Sir,

Sub: NCES – M/s. Nehru Memorial College - Establishment of 224 KW LT grid interactive roof top solar PV power plant within the institution premises located at Puthanampatti, Trichy district – Parallel operation through company's LT network of existing HT SC.No.172 of SE/EDC/Trichy Metro – Approval accorded – Reg.

Ref: Director/Generation Approval dated 21.06.2016.

Your proposal seeking tie up approval for the proposed 224 KW LT grid interactive roof top solar PV power plant within the institution premises located at Puthanampatti, Trichy district has been approved.

Your proposed 2 nos. LT grid interactive roof top solar power plant of combined capacity of 224 KW may be connected at your LT network through existing HT service connection (No.172) of SE/EDC/Trichy Metro within the institution premises located at Puthanampatti, Trichy district subject to the following conditions:

- 1.0) Balance works, if any, in respect of interfacing arrangements shall be completed and tested before commissioning and synchronizing the plant.
- 2.0) The solar PV power plant shall be synchronized with TANGEDCO grid in the presence of Board Engineers during initial commissioning.
- 3.0) Safety certificate from the CEIG should be obtained by the Solar Power Generator (SPG) before commissioning the plant.
- 4.0) The SPG has to provide reverse power relay in the consumer side which can be disabled or enabled according to the requirements of TANGEDCO.
- 5.0) As the reliability operation and safety of equipments in the synchronized condition is entirely dependent on the performance of the Inverter unit, the protection logics in the Inverter

specifications shall be tested in the site conditions before commissioning the system in complete shape.

6.0) The promoter is solely responsible for any accident to human beings or animals whatsoever (Fatal/Non-fatal/Departmental/Non-departmental) that might occur due to feedback from solar power plants when HT Grid supply is off.

7.0) The protection and insulation coordination of the A.C side of the Inverter with the existing LT panels shall be verified before commissioning the Solar PV power plant.

8.0) The healthiness of the lightening masts and their coverage, the spread area of the solar modules on the roof top shall be verified.

9.0) The surge arrestors in the SPV circuits and the adequacy of their earth connectivity shall be verified.

10.0) The DC side of the SPV plant shall not be earthed.

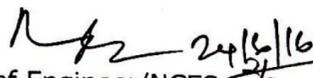
11.0) The entire energy generated should be consumed within the premises itself and you should not export power to TANGEDCO. If any power is exported it will not be considered for adjustment against consumption and it will not be considered for payment.

12.0) The SPG shall restrict the harmonic generation within the limit to be set by the Central Electricity Authority.

13.0) As per the Hon'ble TNERC's Grid Connectivity and Intra State Open Access Regulations 2014, parallel operation charges per month for each MW capacity or part thereof fixed by the TNERC has to be paid by the SPG. This charge is applicable as the generator is availing parallel operation with the grid for captive use of solar power without availing open access.

14.0) This approval is purely a technical authentication for parallel operation of the plant with TANGEDCO grid and the commercial and other terms are not a binding factor which is regulated by the relevant orders.

In this regard, you are requested to contact the Superintending Engineer/EDC/Trichy Metro for interfacing the proposed 224 KW roof top solar power plant with LT side of HT SC No.172 of SE/EDC/Trichy Metro within the institution premises of M/s. Nehru Memorial College.


for Chief Engineer/NCES 24/5/16
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Copy to Superintending Engineer/EDC/Trichy Metro.