



Abstract

Schemes - State Scheme - "Chief Minister's Solar Powered Green House Scheme" (CMSPGHS) - Construction of Solar Powered Green Houses adopting Composite Panel technology as an alternative building technology - Constitution of Technical Experts Committee and High Power Committee to analyze the usage of Composite Panel Technology - Terms of reference - Orders - Issued.

Rural Development and Panchayat Raj (SGS1) Department

G.O.(Ms.) No.84 ✓

Dated : 03.11.2011

Read :

- 1) G.O.(Ms.) No.46, Rural Development and Panchayat Raj Department, Dated 17.08.2011.
 - 2) From the Commissioner of Rural Development and Panchayat Raj Letter No.47691/2011/RH3, Dated 19.10.2011.
 - 3) Government Letter No.24954/SGS1/2011, Dated 02.11.2011.
 - 4) From the Commissioner of Rural Development and Panchayat Raj Letter No.47691/2011/RH3, Dated 02.11.2011.
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ORDER :

In the Government Order first read above, orders have been issued for the construction of 3 lakhs solar powered green houses over a period of 5 years from 2011-12 to 2015-16 and 60,000 houses will be constructed during 2011-12 under the Chief Minister's Solar Powered Green House Scheme.

2) The Commissioner of Rural Development and Panchayat Raj in the letter second read above has sent a proposal for adoption of an alternative building technology viz., Composite Panel Technology for the construction of houses under the Chief Minister's Solar Powered Green House Scheme and he has also suggested to constitute a Technical Experts Committee and a High Power Committee to analyze the usage of this new technology.

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3) Consequent upon the request from the Commissioner of Rural Development and Panchayat Raj, the Government have decided to constitute a Technical Experts Committee and a High Power Committee for usage of Composite Panel Technology as an alternative building technology for construction of houses under the Chief Minister's Solar Powered Green House Scheme. In the Government letter 3rd read above the Commissioner of Rural Development and Panchayat Raj has been requested to send a detailed proposal suggesting the names and designation of the Officers to be included in the proposed Technical Experts Committee and High Power Committee along with the terms of reference and other related issues and in the letter 4th read above the Commissioner of Rural Development and Panchayat Raj has sent a detailed proposal in this regard. The Commissioner of Rural Development and Panchayat Raj has also requested the Government that funds required to carry out the activities of the Technical Experts Committee with regard to the terms of reference including cost of various tests, Honorarium for experts and other related expenditure may be permitted to be met from the 1% of the amount allocated for documentation and other IEC activities under Chief Minister's Solar Powered Green House Scheme and he has also requested the Government to issue necessary orders for constitution of both Committees.

4) The Government have examined the proposal of the Commissioner of Rural Development and Panchayat Raj in detail and decided to accept the same. Accordingly, the Government issue the following orders :-

- (a) A Technical Experts Committee is constituted with the following Officials in order to evaluate and scrutinize Composite Panel Technology, as an alternative building technology with reference to its suitability, acceptability, durability, adaptability and scalability with reference to the local conditions and approve the technical specifications for construction of houses under the Chief Minister's Solar Powered Green House Scheme.

1	Chief Engineer, Buildings, Public Works Department	Chairman
2	Chief Engineer, Tamil Nadu Housing Board	Member
3	Professor and Head, Structural Engineering Division, Department of Civil Engineering, Anna University, Chennai.	Member
4	Superintending Engineer, Rural Development	Member

Terms of reference of the above Technical Experts Committee is appended to this Order.

- (b) A High Power Committee is constituted with the following Officials so as to analyze the Technical Experts Committee report and to decide on the approval of Composite Panel Technology as an alternative building technology for adoption in the implementation the Scheme.

1	Chief Secretary to Government	Chairman
2	Principal Secretary to Government, Finance Department.	Member
3	Principal Secretary to Government, Home Department.	Member
4	Principal Secretary to Government, Energy Department.	Member
5	Secretary to Government, Housing and Urban Development Department.	Member
6	Secretary to Government, Public Works Department.	Member
7	Secretary to Government, Municipal Administration and Water Supply Department.	Member
8	Principal Secretary to Government, Rural Development and Panchayat Raj Department	Member
9	The Commissioner of Rural Development and Panchayat Raj, Chennai-15	Special Invitee

- (c) The Technical Experts Committee is directed to submit its report to Government within seven days from the date of formation.

(d) The Commissioner of Rural Development and Panchayat Raj is permitted to meet out the expenditure to be made towards carrying out the activities of the Technical Experts Committee with regard to the terms of reference including cost of various tests, Honorarium for experts and other related expenditure from the 1% of the amount allocated for documentation and other IEC activities under Chief Minister's Solar Powered Green House Scheme.

5) This order issues with the concurrence of the Finance Department vide its U.O.No.2833/FS/P/11, dated 03.11.2011.

(By Order of the Governor)

N.S. PALANIAPPAN,
Principal Secretary to Government

To

The Chief Secretary to Government, Secretariat, Chennai -9.

The Principal Secretary to Government, Finance Department, Chennai-9.

The Principal Secretary to Government, Home Department, Chennai-9.

The Principal Secretary to Government, Energy Department, Chennai-9.

The Principal Secretary to Government, Higher Education Department, Chennai-9.

The Secretary to Government, Housing and

Urban Development Department Chennai-9.

The Secretary to Government, Public Works Department, Chennai-9.

The Secretary to Government, Municipal Administration and

Water Supply Department, Chennai-9.

The Commissioner of Rural Development and Panchayat Raj, Chennai-15.

The Chief Engineer (Buildings), Public Works Department, Chennai-5.

The Chief Engineer, Tamil Nadu Housing Board, Chennai-35.

The Professor & Head, Structural Engineering Division,

Department of Civil Engineering, Anna University, Chennai-25.

The Superintending Engineer, O/o Directorate of Rural Development

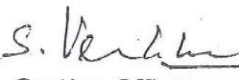
and Panchayat Raj, Chennai - 15.

Copy to:

The Additional Chief Secretary/Secretary-I to the Hon'ble Chief Minister, Chennai-9.

The Senior Personal Assistant to Hon'ble Minister for Municipal Administration and Rural Development, Chennai -9.

//Forwarded by Order //


Section Officer
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G.O.(Ms.) No.84, RD& PR (SGS1) Department, Dated 03.11.2011

Annexure

Terms of reference for the Technical Experts Committee constituted for usage of Composite Panel Technology as an alternative building technology for construction of houses under the Chief Minister's Solar Powered Green House Scheme

1. To study the Composite Panel technology and make a comparative analysis on its suitability in terms of safety, aesthetics, serviceability and user acceptability while taking into consideration economic and environmental factors and cost-benefit ratio.
2. To undertake a detailed structural analysis of various elements for different loading conditions and combinations to study the structural performance for various dead loads, Live loads or imposed loads, temporary or of short duration. These dynamic loads may involve considerations such as impact, momentum, vibration, fatigue, etc., and shall also include various environmental loads such as wind loads, seismic loads, thermal loads, ponding loads, loads due to lateral pressure of soil, loads due to flooding etc., as a result of weather, topography and various natural phenomena in terms of safety and serviceability.
3. To examine the impact of various other factors such as fire, corrosion, creep, vehicle impact or other possible load considerations.
4. To identify any other possible factors that can cause failure and damage to the materials including pests and rodents.
5. To analyse, verify and detail the structural analysis and design methodology adopted for the identified technology.
6. To analyse the suitability, durability and scalability of the design for various soil conditions, terrain conditions and all regions including coastal areas, hilly areas etc., including the types of foundation to be adopted.
7. To study and list out relevant Indian/International codes and codal provisions for the technology and materials used in the technology.

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8. To study, evolve and detail standard specifications for materials used in this technology.
9. To study and analyse the various strength parameters of the materials used in the technology and the performance of the materials for various tests like compression test, tensile test, flexural tests etc., and also to come out with permissible limits for the same.
10. To identify and list out various tests to be conducted on materials used before, during and after construction (non-destructive testing). The testing procedures, equipments and relevant IS & International codes on testing and permissible limits shall also be listed.
11. To arrive at the design life of the structure constructed using the identified technology and to suggest various quality control measures to be undertaken while adopting the new technology.
12. To arrive at various suggestive designs and plans based on the new technology in the form of drawings, 3-D models for approval and also to study the flexibility in design changes during construction to meet user requirements.
13. To detail the various maintenance activities that will be required and the methodology for carrying out maintenance and also to suggest the suitability of the technology for future additions, alterations and possible integration with the existing and prevalent traditional construction methods.
14. To bring out a detailed technical manual/literature on the identified technology for wider dissemination and practice and to prepare a road map for undertaking various capacity building exercise for departmental engineers with regard to the identified technology.

N.S. PALANIAPPAN,
Principal Secretary to Government

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Section Officer

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