

Mail on 26-07-2017

PUBLIC WORKS DEPARTMENT

From

Er.R.Jayasingh, BE., MBA.,
Engineer-In-Chief (Buildings),
Chief Engineer (Buildings) Chennai
Region, &
Chief Engineer (General)
Public Works Department,
Chepauk, Chennai - 600 005

To

1. All the Superintending Engineers, (Building), PWD
2. All the Executive Engineers, (Building), PWD

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26/7/17

Letter No. AEE/T10 /TAMIN/2016, dated 30.06.2017

Sir,

Sub : TAMIN - value added Products namely - "Vermittiles" (Cool Roof Tiles) "Graphitiles" (Paver Tiles) - Exemption under section 16 (f) of Tender Transparency Act, 1998- Requesting purchase orders-Reg

- Ref :**
1. G.O Ms.No.55, Industries (MME.1) Dept dt 15.05.2017
 2. The Managing Director, Tamil Nadu Minerals Limited, Rc.no.2262/iu2/2015/ dt 30.05.2017

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Copy of the G.O is communicated for information and necessary action.

[Signature]
30/6/17
for Engineer-in-Chief (Buildings) and
Chief Engineer (Buildings),
Chennai Region, PWD, Chennai-5

Copy to:

1. The Chief Engineer (Buildings), PWD., Madurai Region, Madurai.
2. The Chief Engineer (Buildings), PWD., Trichy Region, Trichy.



ABSTRACT



Industries - Mines and Minerals - TAMIN - Products of TAMIN (i.e.) VERMITILE (Cool Roof Tiles) & Graphitiles (Paver Tiles) - Enabling Government departments including local bodies to procure from TAMIN directly without following Tender procedures - Exemption under clause (f) of section 16 of Tamil Nadu Transparency in Tenders Act, 1998 - Administrative sanction - Orders - Issued.

INDUSTRIES (MME.1) DEPARTMENT

G.O. (Ms) No.55

Dated:15.05.2017

திருவள்ளூர் ஆண்டு 2048

ஹேலிளம்பி வருடம், வைகாசி 1

Read:

From the Managing Director, TAMIN Letter Rc.No.2262/ IU2/2015, dated 6.8.2015 and 11.1.2017.

ORDER:

In the letter read above the Managing Director, TAMIN has submitted the following:-

- (i) Tamil Nadu Minerals Limited (TAMIN) is dealing with Granite and other minerals such as Limestone, Vermiculite, Quartz & Feldspar, Indian Standard Sand and Graphite and secured a stable market for its products, acclaimed for its quality, in and out of India. TAMIN is also producing and selling Exfoliated Vermiculite throughout India. The Exfoliated Vermiculite with properties such as light weight, non-corrosive, non conductor of electricity, odorless, acid resistant, non abrasive, reflective, low thermal conductivity, vermin & termite proof, insoluble in water and organic solvents, resistance to heat penetration, high thermal insulation which has versatile uses.
- (ii) Now, TAMIN has the honour to have introduced an innovative solar reflecting vermiculite roof tiles named '**Vermatile**' of size 1' x 1' x 1" thickness as a result of relentless and constructive laboratory research process done, by TAMIN. Patent Right has

been registered and published in the Patent Journal on 31.07.2015.

- (iii) At present, weathering course on the open terrace of the buildings of the RCC roof floor are done laying clay tiles over the brick jelly, lime mortar, jaggery and kadukkai mixture. It is needless to mention that, if the clay tiles are not fixed properly, over a period of time, this old system of weathering course can pave way for percolation of water through the tiles and water absorbed by the brick jelly retains dampness in the building causing damages to the concrete.
- (iv) TAMIN endeavors to change this old conventional way of laying weathering course by introducing the '**Vermatile**' (Vermiculite Roof Tiles). The '**Vermitiles**' can be laid on the roof directly by laying cement mortar on the RCC roof. The laying of '**Vermitiles**', on the roof also reduces the heat as they are having lesser thermal conductivity more of solar reflectance and also reduces the dead-load factor over the building due to low weight and is cost effective compared to the conventional system of weathering course.

The advantages as per IS/ASTM Test results

Sl. No.	Description	Vermiculite roof tile (VERMITILE)	Reference
1.	Compressive Strength	6.60 N/Sq.mm	For clay tile the compressive strength is 3N/sq mm
2.	Heat resistance	Thermal conductivity of the tile is low ie. 0.202 W/mk as per ASTM E-1530	For clay tile the thermal conductivity is 1.442 W/mk
3.	Water Absorption	7.71% Only.	For clay tiles the water absorption norm is 15% as per I.S.2690 (Part-I) - 1993
4.	Durability	UV rays Exposure 500 hours, with no Colour change and no physical changes tested as per ASTM G155	---
5.	Flexural Strength	2.36 N/sq mm	1.5 N/sq mm

- (v) When compared to conventional system, the 'Vermatile' is more advantageous. Moreover, it will be an ideal choice for winning the Green building concept.
- (vi) Meanwhile, TAMIN has approached various Government departments and local bodies for using TAMIN 'Vermatiles' - cool roof tiles in their ongoing and upcoming projects to experience the bountiful advantages and to gain maximum benefits, especially cooling effect and cost effectiveness. The usage of Vermatiles will be a cost saving to the Government and will enhance the life of the concrete in the buildings.
- (vii) Efforts are being taken to introduce our 'Vermatile' product beyond the boundaries of Tamil Nadu also for which they have received positive response from Karnataka and Andhra Pradesh. Similarly, TAMIN is also developing 'Graphitile' (Paver Tiles), viz. Graphitile of size 1' x 1' x 1" thickness of 1 inch from the tailings generated in the Sivaganga Graphite Beneficiation Plant by implementing waste to wealth concept.
- (viii) It is verified from the Director, DRDA that there is a huge requirement of cool roof tiles / paver tiles for their Green buildings construction and hence, TAMIN has requested PWD for early issuance of necessary approval by the Assessment Committee enabling TAMIN to effect the supply immediately.
- (ix) It is learnt that, if TAMIN products namely 'Vermatile, Graphitile' are given exemption under clause (f) of section 16 of Tamil Nadu Transparency in Tenders Act, 1998 as in the case of TANSI, NTC etc., TAMIN shall effect supply to the departments without Tender formalities.

2. The Managing Director, TAMIN has therefore requested the Government to grant exemption under clause (f) of section 16 of Tamil Nadu Transparency in Tenders Act, 1998 for the products of TAMIN viz. Vermatiles/ Graphitiles, necessary orders enabling Government departments including local bodies to procure Vermatiles / Graphitiles from TAMIN directly without Tender formalities.

3. The Government after careful examination decided to accept the request of Tvl. Tamil Nadu Minerals Limited and grant exemption under clause (f) of section 16 of Tamil Nadu Transparency in Tenders Act, 1998 to Government departments including local bodies to procure Vermatiles / Graphitiles from the Tamil Nadu Minerals Limited (TAMIN) directly without following Tender procedures.

4. Necessary notification required under section 16(f) of the Tamil Nadu Transparency in Tenders Act, 1998 will be issued separately by the Finance Department.

5. This order issues with the concurrence of the Finance Department and its U.O.No Fin U.O.No.20313/Sal/2017, dated: 6.5.2017.

(BY ORDER OF THE GOVERNOR)

**ATULYA MISRA
PRINCIPAL SECRETARY TO GOVERNMENT**

To
The Managing Director,
Tamil Nadu Minerals Limited,
Chepauk, Chennai - 600 005.
The Accountant General, Chennai - 600 018.
The Accountant General (CAS), Chennai - 600 009.
The Resident Audit Officer, Secretariat, Chennai - 600 009.
The Finance (Sal) Department, Chennai - 600 009.
[With a request to issue necessary notification under sec 16(f)
of the Tamil Nadu Transparency in Tenders Act, 1998]

Copy to:

O/o. Hon'ble Chief Minister, Chennai - 600 009.
The Special Personal Assistant to Hon'ble Minister (Fisheries,
Finance and Personnel & Administrative Reforms),
Chennai - 600 009.
The Special Personal Assistant to Hon'ble Minister (Industries),
Chennai - 600 009.
Industries (OPII.1) Department, Chennai - 600 009.
SF/SC.

//FORWARDED BY ORDER//

16/5
SECTION OFFICER
16.5.17