

GOVERNMENT OF TELANGANA

ABSTRACT

I&CAD Deptt. – Usage of Portland Slag Cement in all Engineering Departmental works  
– Approved – Orders – Issued.

IRRIGATION AND CAD (REFORMS) DEPARTMENT

G.O.Rt.No.174

Dated: 20-03-2015

Read the following:

- 1) From the Associated Vice President, Marketing, M/s.JSW Cement Limited, Secunderabad, dated:Nil.
- 2) Govt.Memo.No.2286/Reforms/A1/2013, dated:30.01.2013.
- 3) From the E.N.C.(IW), Hyd., Lr.No.ENC/IW/P&M/EE.I/DEE.8/ 61108/08/V, dt:14.05.2013.
- 4) Govt.Memo.No.2286/Reforms /A1/2013, dated:10.07.2013.
- 5) From the E.N.C.(IW), Hyd., Lr.No.ENC/IW/P&M/EE.I/DEE.8/ 61108/V, dated:02.12.2013.
- 6) Govt.Memo.No.2286/Reforms/A1/2013, dated:25.02.2014.
- 7) From the E.N.C.(IW) & Chairman, BOCEs, Hyd., Lr.No.ENC/IW/ P&M/EE.I/DEE.8/61108/08/V, dated:06.05.2014
8. Govt.Memo.No.2286/Reforms/A1/2013, dated:21-08-2014.
- 9) From the E.N.C.(IW), I&CAD Deptt., Hyderabad., Lr.No.ENC/IW/ P&M/EE.I/ DEE.I/ 14, dated:18-02-2015

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ORDER:

In the reference 1<sup>st</sup> read above, Government have received representation for use of Portland Slag Cement (PSC) in Departmental works.

2. In the reference 2<sup>nd</sup> and 4<sup>th</sup> read above a report has been called for from the Engineer-in-Chief(IW), Hyderabad for its usage by all Departmental works, duly comparing the cost of Portland Slag Cement with the cost of other Cements and its market share Vis-à-vis with other cements.

3. In the reference 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> read above, the Engineer-in-Chief(IW), Hyderabad has submitted the proposals for the use of Portland Slag Cement by all the Departments because of its superior Engineering properties and other advantages like 1) Higher strength over a period of time, 2) Better workability, 3) Most Environment friendly, 4) Max. Reduction in heat of hydration, 5) High ultimate strength, 6) High Impermeability, 7) Excellent resistance to Chloride penetration, 8) Excellent resistance to Sulphate attacks, 9) Low risk of Cracking, 10) Savings in cost of Concrete and most importantly it is suitable for severe exposure conditions. The issue was discussed in the Committee of Board of Chief Engineers in its meeting held on 26-04-2013 and he has furnished comparison statement of cost of Portland Slag Cement with the cost of other cements and recommended to the Government for use at any Portland Slag Cement with BIS certificate mark license as per IS 455-1989 (i.e. Specification covering the manufacturing and Chemical & Physical requirements for Portland Slag Cement) in all Engineering Departments because of its advantages stated above. The TR&B Department has also confirmed the rates of Cement in accordance with the orders issued in G.O.Rt.No.882, TR&B(R.I) Deptt., dated:10.09.2013, G.O.Rt.No.963, TR&B(R.I) Deptt., dated:17.10.2013 and G.O.Rt.No.1135, TR&B(R.I)Deptt., dt:14.11.2013.

(PTO)

4. In the reference 8<sup>th</sup> read above, a report has been called for from the Engineer-in-Chief(IW), Hyderabad for confirmation of the Superior Engineering Properties and advantages of PSC and PSC usage in engineering works by an expert from National Council for Cement and Building Materials (NCB), Hyderabad.

5. In the reference 9<sup>th</sup> read above, the Engineer-in-Chief(IW), Hyderabad has submitted the brief report as submitted by the Joint Director, NCB, Delhi covering a brief introduction, advantages, disadvantages and general usage of PSC in Engineering works, wherein stated that Portland Slag Cement is most widely used in concrete application as under:

- Concrete pavements
- Mass concrete application, such as dams
- Pre-stressed or post-tensioned concrete
- High performance/high strength concrete
- Structures and foundation
- Pre-cast concrete, such as pipe and block
- Concrete exposed to sea water and marine application.

6. Government after careful examination of the proposal of the Engineer-in-Chief (IW), Hyderabad for the use of Portland Slag Cement conforming to IS 455-1989, by all Engineering Departments is agreed to. The ENC(IW) I&CAD Department, Hyderabad shall take appropriate steps to use of Portland Slag Cement in specific works only duly ensuring proper quality of material and mixdesign. Further, if any deviation is noticed at a later date in the Engineering properties and other advantages, the usage of Portland Slag Cement shall be dispensed with.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

Dr. SHAIENDRA KUMAR JOSHI  
PRINCIPAL SECRETARY TO GOVERNMENT

To

All Engineers-in-Chief, I&CAD Department, Jalasoudha Buildings, Errum Manzil, Hyderabad.

All Engineers-in-Chief in all Departments in the State of Telangana.

Copy to: The TR&B (Roads.I) Department.

The (PR&RD) Department

The P.S. to Minister (Irrigation).

The P.S. to Principal Secretary to Government.

The Associated Vice President(Mktg.), M/s.JSW Cement Limited, 7<sup>th</sup> Floor, Block-A, Babukhans, Millenium Center, Somajiguda, Hyderabad-82.

SF/SC.

//FORWARDED::BY ORDER//

SECTION OFFICER