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LOCAL SELF GOVERNMENT DEPARTMENT
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No.DB1/4580/16/CE/LSGD

Dated: 23.05.2016

Circular

Sub: Request to issue notification from State Works Department on use of construction of Demolition (C&D) -reg-

Ref: 1) Government Letter No. 8137/H3/2016/PWD dated 25.04.2016


2) Letter No. D.O.SB/SBM/29/2016 dated 23.03.2016 from the Joint Secretary and Mission Director(SBM), Ministry of Urban Development

Approximately 25-30 million tonnes of Construction and Demolition (C&D) waste is generated annually in India, of which less than 5% is processed, the remaining being sent for dumping adding to the already overburdened dumping sites and attendant problems.

To address this issue, the central public work department (CPWD) has now issued a notification making it mandatory for CPWD and National Building Construction Company (NBCC) to use recycled portions of construction and Demolition (C&D) waste in their construction activities, if same is available within 100 km from the Construction site. The notification specifies that coarse and fine varieties of recycled concrete aggregate (RCA), recycled aggregate (RA) derived from the C&D waste are to be used in lean concrete, plain cement concrete (PCC) and reinforced cement concrete (RCC) used in construction.

In this regard, the Bureau of Indian standards (BIS) has revised the existing IS specification (IS 383) to IS:383:2016 and specified that load bearing structure, upto a maximum of 25% of coarse and fine RCA can be mixed with PCC, and upto a maximum of 20% of coarse and fine RCA can be mixed with RCC. For lighter, non-load-bearing structure using lean concrete, the entire amount (100%) of coarse and fine aggregate of both RCA and RA may be used.

In the above circumstances, Engineering head of all LSGIs are directed to use recycled portion of construction and Demolition (C&D) waste in construction activities, if the same is available within 100 km from the construction site, as stipulated in IS 383: 2016.


Chief Engineer

Encl: Reference (2)

Copy to: To Engineering head of all LSGIs

3471/misc/2016/CSO

Secy (PWD)

RAVEEN PRAKASH, IAS
Joint Secretary & Mission Director (SBM)
GOVERNMENT OF INDIA
MINISTRY OF URBAN DEVELOPMENT



सत्यमेव जयते



प्रवीण प्रकाश, आई.ए.एस.

संयुक्त सचिव एवं मिशन निदेशक (एस.बी.एम.)

भारत सरकार

शहरी विकास मंत्रालय

D.O. SB / SBM / 29 / 2016

Date: 23rd March 2016

Respected Sir,

Re: Request to issue notification from state works' department on use of Construction & Demolition (C&D) waste

As you are aware, approximately 25 - 30 million tonnes of Construction & Demolition (C&D) waste is generated annually in India, of which less than 5% is processed, the remaining being sent for dumping, adding to the already overburdened dumping sites and attendant problems.

To address this issue, the Central Public Works Department (CPWD) has now issued a notification making it mandatory for CPWD and National Buildings Construction Company (NBCC) to use recycled portions of Construction and Demolition (C & D) waste in their construction activities, if the same is available within 100 km from the construction site. The notification specifies that coarse and fine varieties of recycled concrete aggregate (RCA) and Recycled Aggregate (RA) derived from the C&D waste are to be used in lean concrete, plain concrete cement (PCC) and Reinforced Concrete Cement (RCC) used in construction.

In this regard, the Bureau of Indian Standards (BIS) has revised the existing IS specification (IS 383) to IS 383: 2016 and specified that for load bearing structures, upto a maximum of 25% of coarse and fine RCA can be mixed with PCC, and upto a maximum of 20% of coarse and fine RCA can be mixed with RCC. For lighter, non-load-bearing structures using lean concrete, the entire amount (100%) of coarse and fine aggregates of both RCA and RA may be used.

A copy of the above notification is being attached for your reference.

This is to request you to kindly advise your state's works' departments to issue similar notifications along these lines, to ensure more effective processing of C&D waste in your state.

We look forward to your involvement and cooperation in making this mission a success.

With regards,

Yours sincerely,



(Praveen Prakash)

All Chief Secretaries
c.c. Director (SBM-SJ) / JA-CPHEEO (MoUD)



महानिदेशालय, के०लो०नि०वि०.

डीजी/विनिर्देश (सी०)/०७

निर्माण भवन, नई दिल्ली-110011

महानिदेशक के० लो० नि० वि० द्वारा प्रदत्त अधिकारों से जारी किया गया

निर्माण भवन नई दिल्ली

दिनांक 22/03/2016

कार्यालय ज्ञापन

CORRIGENDUM

Sub:- Use of manufactured aggregates as per IS : 383: 2016 in CPWD Works.

संदर्भ:- स० 37/अधि० अभि०(दास)/सी० एस० - विनिर्देश /2015-16/52(H) दिनांक 25/02/2016

The Office Memorandum No. DG/Specifications(Civil)/2007 dated 25.02.2016 issued vide above referred letter is modified and the corrected Office Memorandum is as under:

BIS has revised IS 383 and published IS 383: 2016 to permit the use of manufactured aggregate namely recycled aggregate (RA) and recycled concrete aggregate (RCA) in lean concrete, PCC and RCC. The use of BIS certified manufactured aggregates as mentioned in para 10.3 of BIS 383:2016, recycled aggregate (RA) and recycled concrete aggregate (RCA) shall be used in CPWD works if available within 100 Km from the site of the work. The extent of Utilization of manufactured aggregates as given in the table below.

Sl. No.	Type of aggregate	Maximum Utilization		
		Plain Concrete	Reinforced Concrete	Lean Concrete
		Percent	Percent	(Less than M 15 Grade)
(1)	(2)	(3)	(4)	Percent
				(5)
i) Coarse aggregate:				
a)	Recycled concrete aggregate" (RCA)	25	20 (Only upto M25	100
	(See Note 1)		Grade)	
b)	Recycled aggregate" (RA)	Nil	Nil	100
ii) Fine aggregate:				
d)	Recycled concrete aggregate"(RCA)	25	20 (Only upto M25	100
	(See Note 1)		Grade)	

See A-3 for brief information on recycled aggregates (RA) and recycled concrete aggregates (RCA).

NOTES

1. It is desirable to source the recycled concrete aggregates from sites being redeveloped for use in the same site.
2. In any given structure, only one type of manufactured coarse aggregate and one type of manufactured fine aggregate shall be used.

(Signature)
(आर.बी. गर्ग) 22/3/2016

कार्यपालक अभियंता (दास -II)

दिनांक 22/03/2016

स० 37/अधि० अभि०(दास)/सी० एस० - विनिर्देश /2015-16/ 71-हि०

प्रतिलिपि : के लो नि वि की वेबसाईट <http://cpwd.gov.in> के माध्यम से के० लो० नि० वि० / लो० नि० वि०

(दिल्ली सरकार) के विशेष महानिदेशक/ अतिरिक्त महानिदेशक/ मुख्य अभियंता/ अधीक्षण अभियंता/

कार्यपालक अभियंताओं को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

(Signature)
कार्यपालक अभियंता (दास -II) 1)