

**Confidential**

**No. 10/V-12/(A-154)/2017-VSI  
Government of India**



**Office of JS & CVO  
Vigilance Unit, CPWD  
Nirman Bhawan, New Delhi-110108**

Date: 13.04.2018

To

The Chief Engineer  
(CSQ), Civil, CPWD  
Nirman Bhawan, New Delhi.

**Sub: Fixation of bricks wastage in brick work Analysis of Rate  
(Systematic Improvement No 3/2018)**

Sir,

While investigating one complaint in Vigilance Unit, a comparative study of bricks taken in brick work Analysis of Rate have been done. The details are as under :

Place	Size of bricks (in cm)	Volume of one brick (in cm <sup>3</sup> )	Volume of mortar adopted in 1.0 m <sup>3</sup> approved A/R of brick work 1:6	Volume of bricks content in the A/R	No. of bricks required excluding breakage and wastage (6 ÷ 3)	No. of bricks adopted in approved A/R of brick work 1:6	Calculated No. of bricks for breakage & wastage	Calculated %age of breakage & wastage of bricks (8 ÷ 6)
1	2	3	4	5	6	7	8	9
<b>Delhi (HQ)</b> DAR 1972	22.9x11.2x7.0	1795.36	0.25 m <sup>3</sup>	<u>0.75m<sup>3</sup></u> 750000 cm <sup>3</sup>	418 nos.	494 nos.	76 nos.	18.18%
<b>Agartala</b> approved A/R	25.0x12.5x7.5	2343.75	0.22 m <sup>3</sup>	<u>0.78m<sup>3</sup></u> 780000 cm <sup>3</sup>	333 nos.	380 nos.	47 nos.	14.11%
<b>Kolkata</b> approved A/R	25.4x12.7x7.62	2458.06	0.22 m <sup>3</sup>	<u>0.78m<sup>3</sup></u> 780000 cm <sup>3</sup>	317 nos.	350 nos.	33 nos.	10.41%

At present there is no specific fixed percentage of bricks wastage for taking number of bricks in the brick work analysis of rates. Different Zones of CPWD are assuming different bricks wastages as a result number of bricks taken in brick work Analysis of Rates are on higher side. This may need undue benefit to contractors when market rates are paid.

It is, therefore requested to look into the matter at Directorate level to sort out such anomalies and fix a definite percentage of wastage of bricks for taking number of bricks in brick work analysis of rates to maintain uniformity and to avoid undue benefit to contractors at later stage.

This issues with the approval of CVO, CPWD.

(A.K. Singh)  
Executive Engineer (V-12)

Copy to:

✓ AE computer, vigilance unit for necessary action.

Executive Engineer (V-12)