

મકાનો તથા પુલોના આર.સી.સી. કામોમાં
લોખંડના સળીયાના માપો લખવા તથા
ચૂકવણામાં લેપ લેન્ય ની લંબાઈ
ગણતરીમાં નહીં લવા બાબત

ગુજરાત સરકાર
માર્ગ અને મકાન વિભાગ
સચિવાલય, ગાંધીનગર

પરિપત્ર ક્રમાંક:- PDW-10-2017-01-C
તા.૧૫-૦૨-૨૦૧૭

પરિપત્ર:-

મકાન, રસ્તા અને પુલોના કામોમાં આર.સી.સી. આઇટમોમાં સમાવિષ્ટ સ્ટીલ રેઇનફોર્સમેન્ટના માપો લખવા અને ચૂકવણા દરમિયાન લેપની લંબાઈ ગણતરીમાં લેવામાં આવે છે. રેઇનફોર્સમેન્ટમાં લેપની વધુ સંખ્યાને પ્રોત્સાહન ન આપતા સળંગ રેઇનફોર્સમેન્ટ (સળીયા) જ મહદઅંશે વપરાય એ તાંત્રિક રીતે વધુ યોગ્ય છે.

MORT&H સ્પેશીફિકેશનના પ્રવર્તમાન ધારાધોરણ મુજબ રેઇનફોર્સ (સળીયા)ના ચૂકવણામાં લેપની લંબાઈના માપો ગણતરીમાં લેવામાં આવતા નથી. (Section 1608)

MORT&H સ્પેશીફિકેશનના પ્રવર્તમાન ધારાધોરણ મુજબ માર્ગ અને મકાન વિભાગ હેઠળ મકાન, રસ્તા અને પુલના રેઇનફોર્સ (સળીયા)ના સ્પેશીફિકેશનમાં Mode of Measurement & Payment માં હવે પછી નીચે મુજબના ફેરફાર કરવા આથી સુચના આપવામાં આવે છે.

<u>EXISTING ITEM</u>	<u>PROPOSED AMENDMENT</u> (As per MORT&H Specification Item No.1608)
<u>મકાનના સ્પેશીફિકેશન</u> 5.4.10 Providing an Mild Steel reinforcement for R.C.C. work including bending binding and placing in position etc. complete up to floor two level.	<u>મકાનના સ્પેશીફિકેશન</u> 5.4.10 Providing an Mild Steel reinforcement for R.C.C. work including bending binding and placing in position etc. complete up to floor two level.
5.4.11 High yield deform bars steel reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level.	5.4.11 High yield deform bars steel reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level.
3.2 Reinforcement shall be measured in length including overlaps, separately for different diameters as actually used in the work. Where welding or coupling is resorted to in place lap joints, such	3.2 Reinforcement shall be measured in length including hooks, if any, separately for differencnt diameters as actually used in work, excluding overlaps. From the length so


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<p>measured, the weight of reinforcement shall be calculated in tonnes on the basis of IS: 1732. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods for binding and placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.</p>	<p>Item No. 39 : Providing steel reinforcement.</p> <p>a) Providing and placing in position mild steel bar reinforcement including cutting, bending, hooking and tying complete as per details.</p> <p>b) High yield strength deformed bars reinforcement.</p> <p>(10) Reinforcement shall be measured in length separately for different diameters as actually used in the work, from the length so measured the weight of reinforcement shall be calculated in tones on the same basis of IS : 1732 even though steel is supplied to the contractor by the department on actual weight. Length shall include hooks at the ends Wastage and annealed steel wire for binding shall not be measured and the cost of these items shall be deemed to be included in the rate for reinforcement.</p>	<p>PROPOSED AMENDMENT (As per MORT&H Specification Item No.1608)</p>	<p>EXISTING ITEM</p>	<p>Item No. 39 : Providing steel reinforcement.</p> <p>a) Providing and placing in position mild steel bar reinforcement including cutting, bending, hooking and tying complete as per details.</p> <p>b) High yield strength deformed bars reinforcement.</p> <p>(10) Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work, excluding overlaps. From the length so measured, the weight of reinforcement shall be calculated in tonnes on the basis of IS: 1732. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or</p>	<p>Item No. 39 : Providing steel reinforcement.</p> <p>a) Providing and placing in position mild steel bar reinforcement including cutting, bending, hooking and tying complete as per details.</p> <p>b) High yield strength deformed bars reinforcement.</p> <p>(10) Reinforcement shall be measured in length separately for different diameters as actually used in the work, from the length so measured the weight of reinforcement shall be calculated in tones on the same basis of IS : 1732 even though steel is supplied to the contractor by the Department on actual weight. Length shall include hooks at ends. Wastage and annealed steel wire for binding shall not be measured and cost of these items shall be deemed to be</p>
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included in the rates for reinforcement.	<i>other methods for binding and placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.</i>
<p><u>પુલના સ્પેશીફિકેશન</u></p> <p>Item: 21 –Providing</p> <p>(A) Mild Steel Reinforcement</p> <p>(B) High Yield Strength Deformed bars, reinforcements.</p> <p>(10) Reinforcement shall be measured in length including overlaps, separately for different diameter, as actually used in the work, where welding or coupling is restored to, in place of lap-joints, such joints shall be measured for payment as the equivalent length of over lap as per design requirement. From the length so measured the weight of reinforcement shall be calculated in tones on the same basis of IS 1732 even though steel is supplied to the contractor by the Department on actual weighment. Length shall include hooks at ends. Wastage and annealed steel wire for binding shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.</p>	<p><u>પુલના સ્પેશીફિકેશન</u></p> <p>Item: 21 –Providing</p> <p>(A) Mild Steel Reinforcement</p> <p>(B) High Yield Strength Deformed bars, reinforcements.</p> <p><i>(10) Reinforcement shall be measured in length including hooks, if any, separately for differencet diameters as actually used in work, excluding overlaps. From the length so measured, the weight of reinforcement shall be calculated in tonnes on the basis of IS: 1732. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods for binding and placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.</i></p>

2/10/2019


Divisional Accounts Officer
 P.I.U.-Tender Cell
 Gandhinagar




 (એન. જી. પરમાર)
 ખાસ ફરજ પરના અધિકારી(વિ.ચો.)
 માર્ગ અને મકાન વિભાગ

1) ખાતા સહિત, સહિતીય કાર્ય, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત, ધા.સા.સહિત

2) ખાતા સહિત, સહિતીય કાર્ય, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત, ધા.સા.સહિત

3) ખાતા સહિત, અગ્ર સહિતીય કાર્ય, આર.સા.સહિત, પ.ક.લિ.સા. સહિત, ધા.સા.સહિત

4) ખાતા સહિત, અ.મ. સહિતીય કાર્ય, શહેરી લિકાસ, શ.ગ.લિ.સા. સહિત, ધા.સા.સહિત

5) ખાતા સહિત, અગ્ર સહિતીય કાર્ય, પ.ચા.સા.સહિત, પ.ચા.સા.સહિત, ધા.સા.સહિત

6) ચાકાઉટ્ટ જમરાસ, રાજકોટ / અમદાવાદ

7) સર્વ મુલ્ય ઉજારી, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

8) સર્વ મુલ્ય ઉજારી, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

9) મેજીરા ડીકર, ગુજરાત રાજ્ય માટે લિકાસ નિગમ, ભા.સા.સહિત, ધા.સા.સહિત

10) મ.ઇ. અને ડીકર, અગ્ર સહિતીય કાર્ય, શહેરી લિકાસ, શ.ગ.લિ.સા. સહિત, ધા.સા.સહિત

11) ડીકર, ગુજરાત અગ્ર સહિતીય કાર્ય, શહેરી લિકાસ, શ.ગ.લિ.સા. સહિત, ધા.સા.સહિત

12) ઉપ સહિત, ગુજરાત નકસી આરોગ્ય, નકસી આરોગ્ય, ધા.સા.સહિત

13) નાણા સહિત, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

14) સર્વ અગ્ર સહિત, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

15) સર્વ કાર્યવાહક ઉજારી, (ઉપર મુજબ હેતુઓ)

16) સર્વ નાણા સહિત, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

17) સર્વ નાણા સહિત, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

18) મુખ્ય, ગુજરાત કોર્પોરેશન, ગાંધી, ભા.સા.સહિત, ધા.સા.સહિત

19) શાખા સહિત કાર્ય - 2019

20.04.17 / 2017/17
21.04.17 / 2017/17

જાણી, અગ્ર સહિત, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત
સર્વ મુલ્ય ઉજારી, મા.મ.લિ.સા. સહિત, ધા.સા.સહિત

21.04.17 / 2017/17

Divisional Accounts Officer
P.U. Tender Cell
Gandhinagar

**STANDARDS FOR CEMENT
CONSUMPTION FOR DIFFERENT
ITEMS OF WORK**

Government of Gujarat

Roads & Building Department,

Circular No. PRC/10/2017/Cement Consumption/16/C

14, Sardar Bhavan, 2nd Floor,

Sachivalaya, Gandhinagar

Date:- 11/05/2017

Read:- Government of Gujarat, Road & Building Department, Sachivalaya, Gandhinagar Circular No. SOR/1085/7/H(1) dated 08/12/1986

CIRCULAR

The uniform rate of cement consumption for various item was prepared and circulated vide No. SOR/1085/7/H(1) dated 08/12/1986.


At the outset, current practice of estimating cement consumption in concrete item of various Building, Bridge and Road project is based on above circular. However, it is generally observed that the cement consumption derived by actual mix design is lower than the standard cement consumption. Some of provision of the said circular become obsolete due to subsequent revisions in the relevant IS code and IRC code. The maximum cement consumption as per IS : 456-2000 and IRC : 112-2011 is 450 Kg./m³. Also cement industry and aggregate crushing industry have involved better quality of cement and aggregate over the years which have far reacting impact on mix design of the present day concrete.

Mix design report of GERI reflecting entire Gujarat region have been considered in averaging the cement consumption in various grade of design mix concrete. To minimize the difference between standard cement consumption of cement and actual consumption derived by mix design by GERI and the cement consumption as per provision of IS and IRC code falling cement consumption is proposed for estimation purpose.

Looking the above facts, the cement consumption mentioned in circular vide No. SOR/1085/7/H(1) dated 08/12/1986 is required to modify as per below:

EXISTING ITEM			AMENDMENT		
Item	Unit	Quantity of cement to be used per unit quantity of work in Kg	Item	Unit	Quantity of cement to be used per unit quantity of work in Kg.
Building, Road & Bridge Items					
Providing & casting in situ ordinary cement concrete M75 for PCC work	Cu.m.	160	Providing & casting in situ ordinary cement concrete M7.5 for PCC work	Cu.m.	160
Providing & casting in situ ordinary cement concrete M100 for PCC work	Cu.m.	220	Providing & casting in situ ordinary cement concrete M10 for PCC work	Cu.m.	220
Providing & casting in situ ordinary cement concrete M150 for PCC work	Cu.m.	320	Providing & casting in situ ordinary cement concrete M15 for PCC work	Cu.m.	290
Providing and casting situ control cement concrete M200 for RCC work	Cu.m.	400	Providing and casting situ control cement concrete M20 for RCC work	Cu.m.	360
Providing and casting situ control cement concrete M250 for RCC work	Cu.m.	450	Providing and casting situ control cement concrete M25 for RCC work	Cu.m.	380
Providing and casting situ control cement concrete M350 for RCC work	Cu.m.	500	Providing and casting situ control cement concrete M35 for RCC work	Cu.m.	425
Providing and casting situ control cement concrete M400 for RCC work	Cu.m.	525	Providing and casting situ control cement concrete M40 for RCC work	Cu.m.	440
Providing and casting situ control cement concrete M450 for RCC work	Cu.m.	540	Providing and casting situ control cement concrete M45 for RCC work	Cu.m.	450
New Item					
-	-	-	Providing and casting situ control cement concrete M30 for RCC work	Cu.m.	410

The cement consumption of other than above concrete item and other details mentioned in circular vide No. SOR/1085/7/H(1) dated 08/12/1986 will be remain same.



(N.G. Parmar)
Officer on Special Duty (S.P.)
R&B Department
Gandhinagar

To,

- 1) The Personal Secretary, Office of the Secretary, Road & Building Department, Sachivalaya, Gandhinagar
- 2) The Personal Secretary, Office of the Secretary, Narmada, Water Resources, Water Supply and Kalpsar Department, Sachivalaya, Gandhinagar
- 3) The Personal Secretary, Office of the Principal Secretary, Health & Family Welfare Department, Sachivalaya, Gandhinagar
- 4) The Personal Secretary, Office of the Additional Chief Secretary, Urban Development and Urban Housing Department, Sachivalaya, Gandhinagar
- 5) The Personal Secretary, Office of the Principal Secretary, Panchayat, Rural Housing and Rural Development Department, Sachivalaya, Gandhinagar
- 6) Accountant General, Rajkot/Ahmedabad
- 7) All the Chief Engineers, Road & Building Department, Sachivalaya, Gandhinagar
- 8) All the Chief Engineers, Narmada, Water Resources, Water Supply and Kalpsar Department, Sachivalaya, Gandhinagar
- 9) The Managing Director, Gujarat State Road Development Corporation, Nirman Bhavan, Gandhinagar
- 10) The Chief Engineer & Director, Staff Training College, Gandhinagar
- 11) The Directro, Gujarat Engineering Research Institute (GERI), Vadodara
- 12) The Under Secretary, Gujarat Vigilance Commission, Vigilance Bhavan, Gandhinagar
- 13) All the Superintending Engineers, Road & Building Department (State, Panchayat, National Highway, Capital Project Circle, Electric Circle)
- 14) All the Executive Engineers, (as above circles)
- 15) All Technical Officers, Road & Building Department, Sachivalaya, Gandhinagar
- 16) All Technical Branches, Road & Building Department, Sachivalaya, Gandhinagar
- 17) President, Gujarat Contractors Association, Gajjara Hall, Law Garden, Law College Road, Ahmedabad
- 18) Branch Select file-2017

