To,
As per list attached

**Sub**: Addendum & Corrigendum Slip (ACS) no. 6 to GCC, July 2013: Amendment to Clause 46A.7 (a sub-clause of PVC) to GCC.


The Competent Authority in Railway Board has decided to make following changes in Clause 46A.7 (a sub-clause of Price Variation Clause) to IR’s General Conditions of Contract (GCC):

<table>
<thead>
<tr>
<th>Description, as circulated vide Board’s letter under reference</th>
<th>Revised Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fo</strong>: Index Number of Wholesale Prices - By Groups and Sub-Groups for Fuel, Power, Light and Lubricants as published in the R.B.I. Bulletin for the base period</td>
<td><strong>F_b</strong>: Index Number of Wholesale Prices- By Groups and Sub-Groups for Fuel and Power as published in the R.B.I. Bulletin for the base period</td>
</tr>
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<td><strong>F</strong>: Index Number of Wholesale Prices- By Groups and Sub-Groups for Fuel, Power, Light and Lubricants as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration</td>
<td><strong>F_q</strong>: Index Number of Wholesale Prices- By Groups and Sub-Groups for Fuel and Power as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration</td>
</tr>
<tr>
<td><strong>W_c_o</strong>: Index No. of Wholesale Price of sub-group (of Cement) as published in RBI Bulletin for the base period</td>
<td><strong>C_b</strong>: Index No. of Wholesale Price of sub-group (of Cement &amp; Lime) as published in RBI Bulletin for the base period</td>
</tr>
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<td><strong>W_c</strong>: Index No. of Wholesale Price of sub-group (of Cement) as published in RBI Bulletin for the average price index of the 3 months of the quarter under consideration</td>
<td><strong>C_q</strong>: Index No. of Wholesale Price of sub-group (of Cement &amp; Lime) as published in RBI Bulletin for the average price index of the 3 months of the quarter under consideration</td>
</tr>
</tbody>
</table>
2. Further, various legends mentioned in the PVC formulae, used in Clause 46A.7 have also been reorganized for better understanding by the users in the field.

3. Accordingly, the revised Clause 46A.7 (ACS no. 6 to GCC) is enclosed herewith.

4. This issues with the concurrence of the Finance Directorate of the Ministry of Railways.

DA : As above

(आलोक कुमार)
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e-mail address : edceg@rb.railnet.gov.in

No. 2007/CE-I/CT/18/Pt 13

Copy forwarded for information to :

(i) FA&CAO, All Indian Railways.
(ii) The Principal Director of Audit, All Zonal Railways.
(iii) Dy. Comptroller and Auditor General of India (Railways), Room no. 224, Rail Bhavan, New Delhi (with 46 spare copies)

For Financial Commissioner / Railways

New Delhi, dated 02.05.2014
2. General Manager, All Indian Railways & PWD, power units.
10. General Manager (Conv), N.F. Railway, Guwahati
2. Principal Chief Engineer, All Indian Railways.
3. Chief Administrative Officers (Conv), All Indian Railways. (Except N.F. Railway)
4. Chief Vigilance Officer, All Indian Railways.

Copy to:
(A) 1. CAO/CAO(R), COFMOW, Tilak Bridge, New Delhi-110002.
2. CAO/CAO(R), Diesel Locomotive Works, Patiala (Punjab).
3. CAO, Rail Coach Factory/Rae Bareli Project, Kishanganj, Delhi- 7
4. CEE, Central Organisation for Railway Electrification (CORE), Allahabad

(B) 1. Director General, RDSO, Manak Nagar, Lucknow-226011.
2. Director General, National Academy of Indian Railways, Vadodara-390004
3. Chief Commissioner of Railway Safety, Ashoka Road, Lucknow-226001.

(C) 1. Director, IRCON, Rail Path, Pune. Pin-411001 (Maharashtra).
2. Director, IRCON, P.B.No.-233, Nasik Road-422101 (Maharashtra).
3. Director, IRSET, Taj Mahal Road, Lall Guda, Secunderabad-500017
4. Director, IRMEE, Jamalpur Distt, Jamalpur - 81214. (Bihar)
5. Director, IRITM, Saraswati Residential Estate, IRITM Campus, Manak Nagar, Lucknow.
6. Director, JR RF Academy, Lucknow
7. Indian Railways Organisation for Alternate Fuels, 12th floor, CORE-I, SCOPE Minar, District Centre, Laxmi Nagar, Delhi - 110092

(D) 1. MD, DMRC, Metro Bhawan, 13, Fire Bridge Lane, Barakhamba Road, New Delhi- 110 001.
2. MD, CONCOR, Concor Bhawan, C-3, Mathura Road, Opp. Apollo Hospital, New Delhi- 110076.
3. IRCON International Limited, C-4, District Centre, Saket, New Delhi- 110017
4. MD, RITES Ltd, RITES Bhawan, Plot no.1, Sector-29, Gurgaon, Haryana-122001
5. MD, RVL, August Kranti Bhawan, Plot no.25, 11th Floor, Bhikaji Cama Place, New Delhi-110066
6. MD, MRC Ltd, Churchgate Station Bldg, Mumbai- 400020
7. MD, KONKAN Railway Corporation Ltd, Rail Bhavan, New Delhi-110001
8. MD, DFCCIL, 5th Floor, Pragati Maidan Metro Station Building Complex, New Delhi-110001
9. MD, RLDA, Near Safdarjung Railway Station, Moti Bagh, Phase-I, New Delhi- 110021
10. CMD, Rail Tel Corporation of India Ltd, Plot no. 143, Institutional Area, Sector-44, Gurgaon, Haryana- 122003
11. RCF, Rae Bareilly, Kisan Ganj, Delhi.
12. CME, IROFAF, 12th Floor, Core-I, Scope Minar, Distt. Centre, Laxmi Nagar, Delhi- 110092
13. CAO, Indian Railways (Workshops Projects), Chamber Bhawan, Judge's Court Road, Anta Ghat, Patna-800001, Bihar.

(E) 1. General Secretary, IRCA, DRM Office, New Delhi.
2. General Secretary, AIRF, Rail Bhavan, New Delhi.
3. General Secretary, NFIR, Rail Bhavan, New Delhi.
4. General Secretary, IRPOF, Rail Bhavan, New Delhi.
5. General Secretary, FROA, Rail Bhavan, New Delhi.
6. General Secretary, AIRPA, Rail Bhavan, New Delhi.
7. General Secretary, ATSC&STREA, Room no. 7, Rail Bhavan, New Delhi.
8. The Secretary, RBSS, Group (A) Officers Association, Rail Bhavan.
9. The Secretary, RBSS, Group (B) Officers Association, Rail Bhawan.
10. The Secretary, RBSSA, Rail Bhawan.
11. The Secretary, Railway Board, Group (D) Employees Association, Rail Bhawan.

Copy to: CRB, FC, ME, ML, MS, MM, MT, Secy., AM(CE), AM(WORKS), AM(PLG), AM(STAFF), AM(Mech.), AM(Elec.), AM(PU), AM(Tele), AM(Sig.), AM(Traffic), AM(F), AM(B), Adv(Projects), Adv(L&A), Adv(Vig.), Adv(Rates), AM(Stores), AM(IT), AM(T&C), AM(Comm.), DG(RHS), DG(RF), Adv(RE), Adv(Elec), EDTK(M), EDTK(T), EDTP(K), EDPW(Plg), EDFM(Track), EDFV(BAS), EDFM(Rev), EDFX(I), EDFX(III), FD(X)-II, ED(W), EDCEP, ED(Proj), ED(L&A), ED(L&A)-II, EDVE, ED/DM, ED(Safety), ED(Sig.), ED(Tele), EDRS(G), ED(E&E)(DEV), EDEEE(Rev), EDEER, EDE(EM), ED(54NT), EDE, EDE(Res.), EDFE, EDPC, ED(Accounts), ED(T&M), EDFC, EDMEM, EDME(Rev), EDME(Dev), EDME(W), ED(Plg), ED(HC), EDSP, EDSP(K), ED(T), EDTPP, EDPM, EDPW(Plg), EDTM, EDTT(T), EDTT(S), EDV(D), EDV(T), DCE(B&S), DCE(Plg), DCE(L&A), DS(Conf.), JS(G), JS(F), LA, Eko(Adv)(F)XII, II, Vig.III, Vig.(Conf.), L&A, Track I & II, Telecom, Signal, RS(6), & Electrical Branches of Rly. Board.
Clause 46A. - Price Variation Clause:

46A.7 The Amount of variation in prices in several components (labour, material etc.) shall be worked out by the following formulae:

(i) \[ L = \frac{W \times (L_Q - L_B)}{L_B} \times L_C \]

(ii) \[ M = \frac{W \times (M_Q - M_B)}{M_B} \times M_C \]

(iii) \[ F = \frac{W \times (F_Q - F_B)}{F_B} \times F_C \]

(iv) \[ E = \frac{W \times (E_Q - E_B)}{E_B} \times E_C \]

(v) \[ D = \frac{W \times (D_Q - D_B)}{D_B} \times D_C \]

(vi) \[ S = S_W \times (S_Q - S_B) \]

(vii) \[ C = C_V \times (C_Q - C_B) / C_B \]

For Railway Electrification Works:

(viii) \[ T = \frac{(C_S - C_O) / C_O \times 0.4136}{T_C} \]

(ix) \[ R = \frac{(R_T - R_O) / R_O + (Z_T - Z_O) / Z_O \times 0.06}{R_C} \]

(x) \[ N = \frac{(P_T - P_O) / P_O}{N_C} \]

(xi) \[ Z = \frac{(Z_T - Z_O) / Z_O}{Z_C} \]

(xii) \[ I = \frac{(I_T - I_O) / I_T}{85} \]

Where,

L Amount of price variation in Labour
M Amount of price variation in Materials
F Amount of price variation in Fuel
E Amount of price variation in Explosives
D Amount of price variation in Detonators
S Amount of price variation in Steel
C Amount of price variation in Cement
T  Amount of price variation in Concreting
R  Amount of price variation in Ferrous Items
N  Amount of price variation in Non-Ferrous Items
Z  Amount of price variation in Zinc
I  Amount of price variation in Insulator
Lc  % of Labour Component
Mc  % of Material Component
Fc  % of Fuel Component
Ec  % of Explosive Component
Dc  % of Detonators Component
Tc  % of Concreting Component
Rc  % of Ferrous Component
Nc  % of Non-Ferrous Component
Zc  % of Zinc Component
W  Gross value of work done by contractor as per on-account bill(s), excluding cost of materials supplied by Railway at fixed price, minus the price values of cement and steel. This will also exclude specific payment, if any, to be made to the consultants engaged by contractors (such payment shall be indicated in the contractor's offer)
Lb  Consumer Price Index Number for Industrial Workers - All India : Published in R.B.I. Bulletin for the base period
Lq  Consumer Price Index Number for Industrial Workers - All India : Published in R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
Mb  Index Number of Wholesale Prices - By Groups and Sub-Groups : All commodities - as published in the R.B.I. Bulletin for the base period
Mq  Index Number of Wholesale Prices - By Groups and Sub-Groups : All commodities - as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
Fb  Index Number of Wholesale Prices - By Groups and Sub-Groups for Fuel and Power as published in the R.B.I. Bulletin for the base period
Fq  Index Number of Wholesale Prices - By Groups and Sub-Groups for Fuel and Power as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
Eb  Cost of explosives, as fixed by DGS&D in the relevant rate contract of the firm from whom purchases of explosives are made by the contractor for the base period
Eo  Cost of explosives, as fixed by DGS&D in the relevant rate contract of the firm from whom purchases of explosives are made by the contractor for the average price index of the 3 months of the quarter under consideration
Db  Cost of detonators, as fixed by DGS&D in the relevant rate contract of the firm from whom purchases of detonators are made by the contractor for the base period
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>$D_Q$</td>
<td>Cost of detonators, as fixed by DGS&amp;D in the relevant rate contract of the firm from whom purchases of detonators are made by the contractor for the average price index of the 3 months of the quarter under consideration</td>
</tr>
<tr>
<td>$S_W$</td>
<td>Weight of steel in tonne, supplied by the contractor as per the 'on-account' bill for the month under consideration</td>
</tr>
<tr>
<td>$S_Q$</td>
<td>SAIL's (Steel Authority of India Limited) ex-works price plus Excise Duty thereof (in rupees per tonne) for the relevant category of steel supplied by the contractor, as prevailing on the first day of the month in which the steel was purchased by the contractor (or) as prevailing on the first day of the month in which steel was brought to the site by the contractor, whichever is lower</td>
</tr>
<tr>
<td>$S_B$</td>
<td>SAIL's ex-works price plus Excise Duty thereof (in Rs. per tonne) for the relevant category of steel supplied by the contractor as prevailing on the first day of the month in which the tender was opened</td>
</tr>
<tr>
<td>$C_V$</td>
<td>Value of Cement supplied by Contractor as per on account bill in the quarter under consideration</td>
</tr>
<tr>
<td>$C_B$</td>
<td>Index No. of Wholesale Price of sub-group (of Cement &amp; Lime) as published in RBI Bulletin for the base period</td>
</tr>
<tr>
<td>$C_Q$</td>
<td>Index No. of Wholesale Price of sub-group (of Cement &amp; Lime) as published in RBI Bulletin for the average price index of the 3 months of the quarter under consideration</td>
</tr>
<tr>
<td>$C_S$</td>
<td>RBI wholesale price index for cement &amp; lime for the month which is six months prior to date of casting of foundation</td>
</tr>
<tr>
<td>$C_0$</td>
<td>RBI wholesale price index for cement &amp; lime for the month which is one month prior to date of opening of tender</td>
</tr>
<tr>
<td>$R_T$</td>
<td>IEEMA price index for Iron &amp; Steel for the month which is two months prior to date of inspection of material.</td>
</tr>
<tr>
<td>$R_0$</td>
<td>IEEMA price index for Iron &amp; Steel for the month which is one month prior to date of opening of tender.</td>
</tr>
<tr>
<td>$P_T$</td>
<td>IEEMA price for Copper wire bar for the month which is two months prior to date of opening of tender.</td>
</tr>
<tr>
<td>$P_0$</td>
<td>IEEMA price for Copper wire bar for the month which is one month prior to date of inspection of material.</td>
</tr>
<tr>
<td>$Z_T$</td>
<td>IEEMA price for Zinc for the month which is two months prior to date of inspection of material</td>
</tr>
<tr>
<td>$Z_0$</td>
<td>IEEMA price for Zinc for the month which is one month prior to date of opening of tender</td>
</tr>
<tr>
<td>$I_T$</td>
<td>RBI wholesale price index for Structural Clay Products for the month which is two months prior to date of inspection of material</td>
</tr>
<tr>
<td>$I_0$</td>
<td>RBI wholesale price index for Structural Clay Products for the month which is one month prior to date of opening of tender</td>
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</tbody>
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{Authority: Railway Board's circular no. 2007/CE-I/CT/18/Pt 13, dated 02.05.2014}