

PREFACE

CSR - 2010

- 1 The Common Schedule of Rates 1962 was converted into metric system during 1965-66 as Interim Common Schedule of Rates. Then it was revised in 1987. Then in 2010 reprint of CSR-1987 was issued with the approval of the Committee of Direction of Chief Engineers by incorporating the A&C slips No 1 to 21 and 25 (A&C slip No 22 to 24 relate to specifications).
- 2 Now the revision of CSR has become utmost necessary due to phenomenal increase in the rates of material and labour and addition of new items in the market and evolution of new material machinery and modern construction techniques over the past two decades.
- 3 As desired by hon'ble Chief Minister Punjab the revision work of CSR is undertaken on the persuasions of Lt. Gen. (Retd.) B.S.Dhaliwal, Technical Adviser to Hon'ble Chief Minister Punjab. To complete this task, Chief Engineer, PWD B&R, Chief Engineer Electrical (B&R), Chief Engineer Water Supply and Sanitation and Chief Engineer Irrigation (Canal) were designated as Nodal Officers vide Memo No. A.T.P.B/05/CSR dated 19th March 2010. The Chapters relating to Irrigation, Water Supply and Sanitation and Electrical have been revised by the concerned departments and for revising the remaining Chapters of B&R, 8 Nos. sub committees of convenors was constituted for revising the different chapters. These revised chapters have been compiled and now the CSR - 2010 comprises the following chapters:-

(i) Chapter No. 1 to 27 and 31 to 32	Buildings and Culverts, Bridge, Road Works, Irrigation Works such as Outlets, Lining and River and Canal Protection works etc.
(ii) Chapter No 28 to 30	Public Health Works such as Water Supply, Sewerage and Drainage and Sanitary Installations.
(iii) Chapter No.33	Electrical
- 4 This Common Schedule of Rates is applicable to the works to be executed by the various Branches of the State PWD Punjab.
- 5 The Common Schedule of Rates-2010 based on market rate as on April 2010.
- 6 The rates given in this Schedule are for normal construction and maintenance works. For large scale projects, specialized and emergent works like closure works, flood works etc. separate rates may be determined by, the Chief Engineer of the Department concerned.
- 7 This Schedule will not be applicable to the agreements and work orders already in vogue and these will continue to be operated on the basis of the previous Schedule till their completion.
- 8 The areas in the state have been sub-divided into the following two zones :-

PLAINS

Area of all districts of Punjab excluding sub-mountainous region but including Chandigarh and Municipal areas/notified areas of towns of the Sub-mountainous region and road land width of Ambala-Chandigarh-Hoshiarpur-Pathankot-Madhampur-Jammu road.

SUB-MOUNTAINOUS REGION

Sub-mountainous area includes the North Eastern side of Ambala-Chandigarh-Ropar-Garhshanker-Hoshiarpur-Dasuya-Mukerian-Pathankot-Madhampur-Jammu road.

(i)

The works at New Delhi and Delhi shall be carried out on the basis of C.P.W.D. Schedule of Rates and specifications.

- 9 The schedule of Rates, 2010 is based on detailed analysis of rates for each item of work.
- 10 The rates given in this Schedule are based on the latest edition of the Punjab P.W.D. specifications including subsequent Addenda and Corrigenda issued from time to time for all chapters except Chapter No.21, 22 "Bridges," Chapter No.24 "Road work" for which the specifications of Road and Bridge work evolved by the roads wings of the Ministry of Road Transport & Highways Published by the Indian Roads Congress New Delhi, are to be adopted. The rates in respects of "Electrical Installations" Chapter 33 are based on revised specifications, 1985.
- 11 Unless otherwise specified, the labour rates for various items of construction include handling of materials within 100 metres. The through rates include all rehandling of materials at site of work and no payment is due to the contractor on this account.
- 12 The through rates, given in the Schedule, include the carriage of materials as follows :-
 - (a) For such materials as timber, and electrical goods, etc., which have to be arranged by the contractor, the entire carriage is included in the rate, irrespective of the lead. For such materials as *bricks, brick ballast, bajri, sand, stone, bitumen and cinder*, extra lead involved beyond 5 km, is payable as per carriage rates.
 - (c) For bricks the through rates include the carriage within a radius of 5km. of site of work, if the source of bricks is within that limit. In case the source is beyond the radius of 5 km. of the site of work, the through rates include carriage upto first 5 km. measured from source of bricks irrespective of the fact whether this initial distance consists of katcha and pucca or partly katcha and pucca. The lead beyond this initial distance of 5 km. will be payable at the rates provided in the Schedule of Rates for the corresponding subsequent kilometres. *For this purpose the source of bricks shall be the nearest possible working kiln or dump from where the bricks can be obtained and the resources shall be certified as such by the Sub Divisional Engineer in writing before releasing the payment.*
- 13 The through rates include all octroi charges, toll tax, VAT, Labour Welfare Cess, turnover tax and other local taxes etc., paid by the contractor in bringing the material to the site of work.
- 14 The through rates include the wastage and breakage of various materials during construction.
- 15 Unless otherwise specified, the labour rates include the cost of water, tools and plants, labour and materials for scaffolding and cost of good earth for mud mortar and mud plaster wherever required.
- 16 In case of works below ground level like basement of buildings and public health works such as sewers, disposal works etc, the rates upto a depth of 4 metres below ground level, shall be the same as for work in superstructure above first storey. For depths greater than 4 metres, additional rates for subsequent storeys shall be added. For works which are not deeper than 1.5 metres from ground level, ordinary rates for works in foundation and plinth shall apply.
- 17 Where the description of any item is too long, only essential portion may be written in estimates, tenders contract and measurement books, although it will be deemed to cover the entire item as described fully in the Common Schedule of Rates.
- 18 Wherever the column for "Rates" is neither headed by "Plains" nor by "Sub-mountainous Region" the same may be considered to apply to both the regions.
- 19 Abbreviations of units, wherever occurring, in the Punjab, P.W.D. Common Schedule of Rates 2010, are as mentioned here in after:-

A. LENGTH

Millimetre	.. mm
Centimetre	.. cm
Decimetre	.. dm
Metre	.. m
Decametre	.. dam
Hectometre	.. hm
Kilometre	.. km/Km

B. AREA

Square millimetre	.. sq mm/sqmm
Square centimetre	.. sq cm/sqcm/Cm ²
Squaremetre	.. sq m/sqm
area	.. a
hectare	.. ha
Square Kilometre	.. sq km/sqkm

C. VOLUME

Cubic millimetre	.. cu mm/cumm
Cubic centimetre	.. cu cm/cucm
Cubic metre	.. cu m/cum

D. CAPACITY

Milli litre	.. ml
Litre	.. ltr
Kilo litre	.. kl

E. WEIGHT

Milligram	.. mg
gram	.. g
kilogram	.. kg/Kg
quintal	.. qtl/Qtl
Tonne (Metric Tonne)	.. t

F. DENSITY

Kilogram per cubic metre	.. Kg/cum
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G. DISCHARGE

Cubic metre per second .. cu m/s

H. COUNTING

Number/Numbers .. no/nos

Note :- The abbreviations mentioned herein before are for signify both singular as well as plural number.

MISCELLANEOUS

Common Schedule of Rates .. C.S.R./CSR

Director General of supplies and Disposal .. D.G.S. & D.

Public work Department .. P.W.D./PWD

Indian Standard .. I.S./IS

Bureau of Indian Standard .. B.I.S./BIS

Indian Standard Institution .. I.S.I./ISI

Indian Roads Congress .. I.R.C./IRC

Billet Rolled Committee .. B.R.C./BRC

Toos and Plants .. T. & P./T&P

Notice Inviting Tender .. N.I.T./NIT

Galvanized Iron .. G.I./GI

Asbestos cement Corrugated .. A.C.C./ACC

Asbestos Cement .. A.C./AC

Joint Plan Committee .. J.P.C./JPC

Cast Iron .. C.I./CI

Heavy Cast Iron .. H.C.I./HCI

Reinforced Cement Concrete .. R.C.C./RCC

Plain Cement Concrete .. P.C.C./PCC

Poly Vinyl Chloride .. P.V.C./PVC

Short Way Mesh .. S.W.M./SWM

High Density Polyethylene .. H.D.P.E./HDPE

Low Density Polyethylene .. L.D.P.E./LDPE

Mild Steel .. M.S./MS

Rolled Steel. .. R.S./RS

Open Flume .. O.F./OF

Adjustable Proportionate Module	.. A.P.M./APM
Orifice Semi Module	.. O.S.M./OSM
Full Supply Depth	.. F.S.D./FSD
Natural Surface Level	.. N.S.L./NSL
Ground Level	.. G.L./GL
Spring Level	.. S.L./SL
Standard wire gauge	.. S.W.G./SWG
Ampere	.. Amp.
Diametre	.. dia.
Internal dia	.. i/d
Outer dia	.. o/d or OD
All Aluminium Conductor	.. A.A.C./AAC
General Electric Co.	.. G.E.C./GEC
Larsen & Toubro	.. L. & T./L&T
Double Pole	.. D.P./DP
Triple Pole	.. T.P./TP
Triple Pole with Neutral	.. T.P.N./ T.P.& N.
Aluminium conductor steel reinforced	.. A.C.S.R./ACSR
Normally Open	.. N.O./NO
Normally Closed	.. N.C./NC
Current transformer	.. C.T./CT
High rupturing capacity	.. H.R.C./HRC
Supply and erection	.. S.&E./S&E
Branch distribution fuse-board	.. B.D.F.B./BDFB
Over Head Bus-Bar Chamber	.. O.H.B.B.C./OHBBC
Stone ware	.. S.W./SW
Revolutions per minute	.. R.P.M./RPM
Miniature circuit breaker	.. M.C.B./MCB
Alternating Current	.. A.C./AC
Single Pole	.. S.P./SP
Single pole & neutral	.. S.P. & N./ S.P.N.
Kilo-watt hour	.. K.W.H./kwh
Plain cement concrete	.. P.C.C./PCC
Ready Mix Concrete	.. R.M.C./RMC

20 DECIMAL POINTS UPTO WHICH MEASUREMENTS SHALL BE TAKEN ARE AS UNDER:-

- | | |
|---|--|
| (i) All items of Punjab P.W.D. Common Schedule of Rates 2010 except as mentioned below : | .. (a) Dimensions shall be measured to the nearest 0.01 metre. However, rounding off the figures shall not be applicable to conversion of basic dimensions of material and as restricted in the P.W.D. Specifications (Punjab) in force from time to time.
(b) Area shall be worked out to the nearest 0.01 sq m.
(c) Cubic contents shall be worked out to the nearest 0.01 cu m. |
| (ii) Loading, un-loading, stacking and carriage. | .. Length, breadth and height of stack shall be measured correct to a cm. Suitable deduction shall be made to account for voids in loose stacking according to factor, mentioned in relevant chapters of specifications or Schedule. |
| (iii) Dismantling | .. Measurements to be taken correct upto the place of decimal, as per respective original items, mentioned in this para. |
| (iv) Supply and filling cinder on roof including light ramming. | .. Length and breadth shall be measured correct to a cm and average depth to 5mm. |
| (v) Items of skirting and dados, including that on risers and treads of stairs of plaster, precast terrazzo tiles, Agra red stone and of terrazzo, etc. | .. Correct to 3 mm where the height of skirting does not exceed 30 cm and where the height of skirting exceeds 30 cm, it shall be measured correct to a cm. |
| (vi) Items of skirting and dados, including that on risers and treads of stairs of white Makrana Marble, Chittor Black Marble and of Kotah Stone, | .. Correct to 1 mm where the height of skirting does not exceed 30 cm, and where the height of skirting exceeds 30 cm it shall be measured correct to a cm. |
| (vii) Hoisting of wooden beams. | .. Length shall be measured correct to a cm and breadth and depth, correct to 5 mm. |
| (viii) Wood work wrought, planed and fixed for trusses, chowkats etc. | .. In cubic metres nearest to four places of decimal. Length of each piece shall be measured nearest to a cm and X-sectional dimensions shall be measured as specified in Ch. 17 of the Schedule, correct to 5 mm. |
| (ix) Shutters of all type. | .. Shutters shall be measured in sqm nearest to 2 places of decimal, in close position, covering the rebate of the frame. Over lap of two shutters shall not be measured. The width and height of shutter shall be measured correct to a cm. |
| (x) Pelmet. | .. The pelmets shall be measured along the sides and face of planking correct to a cm. |

(vi)

(xi) (a) Steel reinforcement.

.. In accordance with the instructions contained in the book of P.W.D. specifications, the standard factor prescribed therein, shall be taken in calculating the consumption of steel. The change in the standard factor is permissible only when the steel is weighed, measured, and the conversion factor is arrived at by a committee of the concerned the Executive Engineer & the concerned Sub Divisional Engineer of the work immediately on receipt of the steel.

(b) Structural steel, steel window

Finished sections shall be measured in running metres correct to a cm and their weight calculated, on the basis of which steel is supplied to the contractor, by the Deptt. or from standard tables for tested steel.

21 FOR ROUNDING OFF THE VALUES, THE FOLLOWING RULES SHOULD BE APPLIED.

- (i) When the figure, next beyond the last figure or place to be retained, is less than 5, the figure in the last place retained, shall be left unchanged.
- (ii) When the figure, next beyond the last figure or place to be retained, is more than or equal to 5, followed by any figures, the figure in the last place retained, shall be increased by 1.

23 The implications of tendered premium above or below (plus or minus) the ceiling premium fixed by the Zonal Committee shall be as under:-
"The percentage tendered premium/abatment shall be added to/subtracted from Zonal Ceiling Premium only. The percentage so arrived at shall be applicable to the basic rates printed in C.S.R."

24 Rates of all the items in CSR are in Indian Rupees.

Issued under the Authority of
Committee of the Direction of Chief Engineers,
Public Works Department, Punjab.

(vii)

**COMPOSITION OF THE DIRECTION COMMITTEE OF CHIEF ENGINEERS AS PER GOVERNMENT
OF PUNJAB PUBLIC WORKS DEPARTMENT (B&R-III BRANCH) NOTIFICATION NO.
22(90)BRII(3)85/2722-23 DATED 28.06.1985, NOTIFICATION NO. 12/174/98-IBR(3)3308 DATED
23.6.1998, DEPARTMENT OF IRRIGATION & POWER (PERSONNEL-III BRANCH) MEMO NO. 7/187/96-
2/5IPP(3)/15390 DATED 01.08.1996 & DEPARTMENT OF PUBLIC WORKS (B&R-III BRANCH)
NOTIFICATION NO. 12/174/98-1BR3/3875 DATED 03.09.2010**

BUILDINGS & ROADS BRANCH

1. Chief Engineer (Head Quarter)
2. Chief Engineer (National Highways)
3. Chief Engineer (Link Roads)
4. Chief Engineer (Plan Roads)
5. Chief Engineer (Buildings)
6. Chief Engineer-cum-CVO, DQC
7. Chief Engineer (PMGSY)
8. Chief Engineer (Electrical)

PUBLIC HEALTH BRANCH

1. Chief Engineer (Govt. Works)
2. Chief Engineer (Rural Water Supply)

IRRIGATION BRANCH

1. Chief Engineer (Canals)
2. Chief Engineer (Drainage)
3. Chief Engineer (Lining)
4. Chief Engineer Ranjit Sagar Dam (Design)

CAPITAL PROJECT CHANDIGARH ADMN.

Chief Engineer, Capital Project Chandigarh Admn.(U.T)

FINANCE DEPARTMENT PUNJAB

Deputy Secretary to Govt. Punjab, Finance (R) Department.

ACCOUNTANT GENERAL, PUNJAB

Senior Deputy Accountant, General, Punjab.

BHAKRA BEAS MANAGEMENT BOARD

Chief Engineer.

MEMBER SECRETARY

Superintending Engineer, P.W.D. B&R
Schedule of Rates Cell, Patiala.

SPECIAL INVITEE

Any Technical Head of Semi Govt. Undertaking/Organisation/Corporation