



Government of Andhra Pradesh

**COMMON SCHEDULE OF
RATES AS PER
A.P. REVISED STANDARD
DATA FOR THE YEAR 2022-23
(Effective from 1st June, 2022)**

BOARD OF CHIEF ENGINEERS

MASTER INDEX

Sl.No.	Description	Page No.	
		From	To
1	Part-I(Water Resources Work Items)	1	46
2	Part-II (Roads & Bridge Work Items)	1	29
3	Part-IV(Public Health Work Items)	1	118
4	Part-III(Building Work Items)	1	515
5	Annexure-Latest G.O. on Seignorage Charges	1	7

**Office of the Engineer-in-Chief (A.W/I.W)
Water Resources Dept, Vijayawada.**

Procs.No.ENC/IW/P&M/EE.1/DEE-3/AEE (N)/ SoR 2022-23/Vol.1 dt: .07.2022

Sub: Schedule of Rates for the year 2022-23 with basic rates (excluding GST) (as per A.P.Revised Standard Data) -Part-I(Water Resources Dept. Works), Part-2(Road & Bridge Works) and Part-4 (Public Health Works) approved - Printing& Communication of SoRs - Reg.

- Ref:**
1. G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009
 2. ENC (PH) Lr.No. 146/T4/SoR 2022-23 dt: 27.06.2022.
 3. ENC(R&B), Admn & NDB Lr.No.SoR-II/ ENC/ DEC(R)/ EE (TEC)/ DEE 6/AEE2 /2022 dt: 02.06.2022.
 4. Commissioner of Labour, Andhra Pradesh, Vijayawada vide Proceedings no.G / 723 /2022 dt.01.04.2022 under Minimum Wages Act, 1948.
 5. T.O. Lr. No. ENC/ IW/SE (P&M)/ EE.I/ DEE.3/ AEE (N)/ SoR 2022-23/ Vol.I dt. **26.07.2022**
 6. ENC (PH) Lr.No. 146/T4/SoR 2022-23 dt:**28.07.2022**.
 7. ENC (R&B),Admin Lr.No.SoR-II/ENC/DCE(R)/ EE(TEC)/ DEE6 /AEE2 /2022 dt: **27. 07.2022**.
 8. C.E Buildings Vijayawada Lr No.20938/SOR/DCE(B)/EE(B)/DEE(B)/AEE/2022 Dt.**20.07.2022**.

The Government have approved A.P.Revised Standard Data vide ref 1st cited. The Schedule of Rates with basic rates(excluding GST) as per the A.P.Revised Standard Data for the year 2022-23 is approved based on the following:

The ENC(R&B) vide ref. 3rd cited has furnished the draft basic rates exclusive of GST for Roads & Bridge items for the year 2022-23.

The Engineer-in-Chief, Public Health Department has furnished draft basic rates exclusive of GST for Public Health works items and Public Health Materials vide ref 2nd cited.

For Water Resources Department work items, the Regional Superintending Engineers: SE, IC, Dowlaiswaram, SE, IC, Chittoor and SE, IC, Vijayawada have submitted the draft basic rates of materials. The SE, IC, Guntur has furnished draft rates for Mechanical and Workshop items. Accordingly, the draft rates for Water Resources Department are prepared.

The labour wages are finalized based on the rates as recommended by Regional Superintending Engineers duly keeping in view of the minimum wages as declared by the Commissioner, Labour Department vide ref 4th cited.

Based on the above proposals, the draft Schedule of Rates for the part-I (WR items), Part-II(Roads & Bridge items) & Part-IV(PH items) are prepared for the SoR year 2022-23 and placed before the annual Board of Chief Engineers(BoCEs) meeting for approval. The BoCEs has reviewed and finalized the rates of above three parts during the annual SoR virtual meeting held on 03.06.2022 in the conference hall of Engineer-in-Chief (A.W/I.W), Vijayawada and by meeting held on 28.06.2022.

The minutes containing the recommendations of the BoCEs, vide reference 5th cited, are communicated to ENC(R&B) and ENC (PH) for updating the draft rates.

Based on the minutes of meeting, the ENC (PH) and ENC(R&B), Admin have furnished, vide references 6th and 7th cited above, the final copies of PART-II and PART-IV respectively for incorporating into SoR-2022-23. Chief Engineer Buildings, Vijayawada has also submitted the Part-III (Buildings) for SOR 2022-23 vide reference 8th cited.

The procedure for the adoption of Water Resources Department work items, lead & lift charges (Common to all Departments) is shown in the Annexure-A of SoR.

The approved basic rates (excluding GST) are applicable to the data i.e., A.P.Revised Standard Data approved by the Government vide G.O.1st cited.

For Roads & Bridge Works, the rates can be applied for MoRTH data as approved in the G.O. Ms. No. 2, Transport, Roads and Buildings (R-I) Dept., dt: 12.01.2015.

The lead & lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & lift chapter in the WR Works (Part-I) of A.P.Revised Standard Data.

An unique CFMS code for each material is introduced in SoR 2022-23 for the sake of user convenience.

No other items other than the items communicated now by this Office shall be introduced in the SoR 2022-23.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2022-23. Unauthorized printing & selling of the SoR is strictly prohibited.

Any discrepancies found (or) corrections required in SoR 2022-23 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force with effect from 1st June of 2022.

The receipt of the proceedings may be acknowledged in the 1st instance.

**Encl: SoR 2022-23 containing Part-I (Water Resources Dept. works),
Part-II (Roads & Bridge works),
Part-III (Buildings) and Part-IV (Public Health Items).**

**Engineer-in-Chief (A.W/ I.W)
Chairman, BOCE (SoR)
Water Resources Department**

- I. Copy submitted to the Secretary to Govt., WR Dept., 4th Block, A.P.Secretariat Buildings, Velagapudi, Amaravathi.
- II. Copy communicated to the following Heads of Departments along with enclosures for information.
 1. Engineer-in-Chief (Admn), Roads & Buildings Department.
 2. Engineer-in-Chief, Public Health Department.
 3. Engineer-in-Chief, Panchayath Raj Department.
 4. Engineer-in-Chief, RWS, Department.
 5. Chief Engineer (Buildings & RWS), R&B Department.
- III. Copy of Scheduled of Rates 2022-23 with basic rates & Standard data, part-1 (WR Dept. works) communicated to the respective E-mail ids of all the Engineers-in-Chief, Chief Engineers and Regional Superintending Engineers of Irrigation circles of Vijayawada, Guntur, Dowlaiswaram and Chittoor of Water Resources Department for taking necessary action
- IV. Copy to DEE (Computers), ENC(AW) for uploading the approved SoR-2022-23 (part-I, Part-II, Part-III & Part-IV) on the Water Resources Department website and to communicate this proceedings to all the members of the Board of Chief Engineers through E-mail.

**Engineer-in-Chief (A.W/I.W)
Chairman, BOCE (SoR)
Water Resources Department.**

**Important – Read The following
ANNEXURE- A**

- 1)** The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of Water Resources work items.
- 2)** The lead and lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & Lift charges chapter in the Water Resources Department works (Part-1) of A.P. Revised standard data.
- 3)** The estimate sanctioning authority shall physically verify each and every Water Resources work item data incorporated in the estimate with basic input data before sanction of the estimate. Any lapses or arithmetic errors arising in the sanction of data /estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.
- 4)** Any discrepancies / corrections required for improper basic input data appearing in the approved data of Water Resources work items in the software package and hard copy of SoR & Standard data (part-1) may be brought to the notice of undersigned for issuing corrections.

**Engineer-in-Chief (A.W/I.W)
Chairman, BOCE(SoR)
Water Resources Department**

Index – WR Items (Part-I)

Sl. No.	Description	Page No.s	
		From	To
1	Preamble	1	4
2	Labour Rates	5	9
3	Material Rates	10	36
4	Conveyance Charges of Materials	37	41
5	Hire Charges of Machinery	42	46

PREAMBLE

PREAMBLE

1.0 AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Visakhapatnam and Vijayawada municipal corporations (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation (up to a belt of 12 Kms. from Municipal Corporation limits).
- (iii) 40% extra over the rates on labour component of works for Amaravati Capital City area(217 sq.km) as declared by the Govt.vide G.O.Ms.No.141,MA&UD (M2)Dept., dt:09.06.2015(This is introduced as per the Govt instructions issued in Govt.memo.No.668755/Reforms/2017 d:14.07.2017).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms from Municipal limits).
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapleswara Swamy Temple, Kapilatheerthm, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

- a. 20% over basic rates on labour component works allowed for works situated within 10Kms belt of Industrial area of, Ibrahimpattanam, Vuyyuru, Jaggaiahpetta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District Garividi in Vijayanagaram District, Renigunta in Chittoor District and Yerraguntla &

Mangampet in Kadapa District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District, Anakapally of Vishakhapatnam District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Foot Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note below area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency/Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES:

I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

A. TRIAL TRENCHES:

- 1) Trial trenches of not more than 2 metres in width...25% extra.

B. TRIAL PITS:

1) Up to 2 Metres depth	...	25% extra
2) 2 Metres to 4 Metres depth	...	50% extra
3) 4 Metres to 6 Metres depth	...	75% extra
4) 6 Metres to 8 Metres depth	...	100% extra
5) 8 Metres to 9 Metres depth	...	150% extra
6) More than 9 Metres depth	...	200% extra

II) EXCAVATION IN RESTRICTED PLACES:-

I) Foundation of Buildings	....	75% extra
II) For pipe lines where the depth is less than 1.5 times the width	....	75% extra
III) For pipe lines where the depth is 1.5 times or more than the width	....	120% extra
IV) Silt removal in restricted areas such U. T's., Culverts and Syphons	....	120% extra
V) Excavation of field channels	....	75% extra
VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals	....	75% extra
VII) High berm cutting of not more than 150 mm average thickness and sectioning for roads	....	50% extra

Note: 1) The extra percentage is allowed over Common item for all earth works (COM-MWRK- Manual Works) for corresponding soil and Standard data items. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3)rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

3.0 SEIGNIORAGE CHARGES:

The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges. Appropriate Seigniorage Charges for relevant materials are to be added to the Unit rate of work item in the estimates as fixed by the Government in G.O.Ms.No.11 (Industries and Commerce Dept.) dt: 11.02.2020. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

LABOUR RATES

LABOUR RATES

SI No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
I.		SKILLED CATEGORY:	
1	LAB-00001	Bar bender	750
2	LAB-00002	Black smith / Tin smith / Rivetor	590
3	LAB-00003	Blaster	690
4	LAB-00004	Carpenter CI- I	705
5	LAB-00005	Electrician (Licensed)	700
6	LAB-00006	Fitter CI- I	660
7	LAB-00007	Floor Polisher / Tile Layer	590
8	LAB-00008	Foreman	690
9	LAB-00009	Gauge reader	585
10	LAB-00010	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	685
11	LAB-00011	Mason CI- I / Brick layer CI- I	630
12	LAB-00012	Mechanic CI- I	635
13	LAB-00013	Operator Air compressor / DG set	615
14	LAB-00014	Operator Batching plant	700
15	LAB-00015	Operator Bus/Ambulance/ Lorry/ Tanker	675
16	LAB-00016	Operator Concrete / Asphalt mixer	615
17	LAB-00017	Operator Concrete / Asphalt paver	615
18	LAB-00018	Operator Concrete pump / Placer/ ice plant	615
19	LAB-00019	Operator Core drilling machine	690
20	LAB-00020	Operator Crane/ Tower crane/ Cable way	690
21	LAB-00021	Operator Drilling jumbo / Loco / Winch	615
22	LAB-00022	Operator Grouting/ Guniting/ Shotcreting	615
23	LAB-00023	Operator Jackhammer/Pneumatic tamper	615
24	LAB-00024	Operator Pump / Ventilation fan	615
25	LAB-00025	Operator Lathe/Drilling/Shearing machine	690
26	LAB-00026	Operator Bending / Planing machine	615

27	LAB-00027	Operator Road roller	635
----	-----------	----------------------	-----

SI No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
28	LAB-00028	Operator Shovel / Scraper / Dozer	690
29	LAB-00029	Operator Spillway / Sluice gate	615
30	LAB-00030	Operator Crusher / Conveyor / Mucker	615
31	LAB-00031	Operator Tipper / Dumper / Transit mixer	690
32	LAB-00032	Operator Concrete vibrator	615
33	LAB-00033	Operator Vibratory plain / pad foot roller	615
34	LAB-00034	Operator Wagon drill / Drifter	690
35	LAB-00035	Painter CI- I	705
36	LAB-00036	Plumber / Pipe fitter	705
37	LAB-00037	Sarang / Khalasi	615
38	LAB-00038	Spun pipe moulder	615
39	LAB-00039	Stone chiseller CI- I / Stone cutter CI- I	620
40	LAB-00040	Struct. steel Fabricator / Marker / Erector	750
41	LAB-00041	Welder / Gas Cutter	615
42	LAB-00042	Welder (X-ray quality)	690
II.		SEMI SKILLED CATEGORY:	
1	LAB-00057	Asphalt Sprayer / Boiler attendant	565
2	LAB-00058	Bhisti	565
3	LAB-00059	Boatman with boat	565
4	LAB-00060	Carpenter CI- II / Erector shuttering	565
5	LAB-00061	Cartman with double bullock cart	630
6	LAB-00062	Cartman with single bullock cart	590
7	LAB-00063	Chavali / Navagani	565
8	LAB-00064	Crowbarman / Jumper man	565
9	LAB-00065	Fitter CI- II	565
10	LAB-00066	Gang man / Head / Survey mazdoor	565
11	LAB-00067	Gardener / Trained mali	565
12	LAB-00068	Air compressor / DG set	565
13	LAB-00069	Helper Batching plant	565

14	LAB-00070	Helper Blasting	565
----	-----------	-----------------	------------

SI No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
15	LAB-00071	Helper Bus/ Ambulance/ Lorry/ Tanker	565
16	LAB-00072	Helper Bending/Shearing/Planing machine	565
17	LAB-00073	Helper Carpenter	565
18	LAB-00074	Helper Concrete / Asphalt mixer	565
19	LAB-00075	Helper Concrete / Asphalt paver	565
20	LAB-00076	Helper Core drilling machine	565
21	LAB-00077	Helper Crane/ Tower crane/ Cable way	565
22	LAB-00078	Helper Drilling jumbo / Loco / Winch	565
23	LAB-00079	Helper Fitter / Fabrication/Electrician	565
24	LAB-00080	Helper Grouting/ Guniting/ Shotcreting	565
25	LAB-00081	Helper Jack hammer / Pneumatic tamper	565
26	LAB-00082	Helper Laboratory / Instrumentation	565
27	LAB-00083	Helper Road roller	565
28	LAB-00084	Helper Shovel / Scraper / Dozer	565
29	LAB-00085	Helper Crusher / Conveyor / Mucker	565
30	LAB-00086	Helper Tipper / Dumper/ Transit mixer	565
31	LAB-00087	Helper Vibrator	565
32	LAB-00088	Helper Vibratory plain/ pad foot roller	565
33	LAB-00089	Helper Wagon drill/ Drifter	565
34	LAB-00090	Lineman Electric / Telephone	565
35	LAB-00091	Mason CI- II / Brick layer CI-II	565
36	LAB-00092	Mechanic CI- II	565
37	LAB-00093	Painter CI- II	565
38	LAB-00094	Patkari / Neeraganti / Sowdy	565
39	LAB-00095	Stone Chiseller CI- II	565
40	LAB-00096	Stone breaker / Hammer man	565
41	LAB-00097	Valve man / Canal sluice operator	565
III.		UN-SKILLED CATEGORY:	
1	LAB-00118	Cement / Asphalt handling mazdoor	525
2	LAB-00119	Civic worker	525
3	LAB-00120	Man mazdoor	525

SI No.	CFMS CODE	CATEGORY OF WORKER	S. Rate for 2022-23
1	2	3	4
4	LAB-00121	Woman mazdoor	525
5	LAB-00122	Watchman	525
IV.		OTHER CATEGORY:	
1	LAB-00124	Care-taker / conductor / Lift Attender	565
2	LAB-00125	Cook / Mess man	565
3	LAB-00126	Dhobi	565
4	LAB-00127	Diploma Engineer / Surveyor	975
5	LAB-00128	Diver with headgear	720
6	LAB-00129	Graduate / Laboratory Assistant	720
7	LAB-00130	Graduate Engineer/ Geologist	1,255
8	LAB-00131	Horticulture Assistant / Photographer	580
9	LAB-00132	ITI certificate holder / Tracer / Printer	705
10	LAB-00133	Literate mazdoor	540
11	LAB-00134	Stenographer / Computer Operator	770
12	LAB-00135	Telephone / Wireless Operator	690
13	LAB-00136	Typist / Job Typist	690
14	LAB-00137	CAD operator with Diploma in Engineering/General degree with CAD certificate	975
15	LAB-00138	Jeep Driver	685
16	LAB-00139	Data Processing Operator	940

Note: - 1)The wage should not be less than the minimum wages of schedule of employment, subject to out turn. 2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation limits only.

BASIC INPUT DATA FOR WATER RESOURCES WORK ITEMS

**STATEMENT OF RATES FOR MATERIALS
FOR THE YEAR:2022-23
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
2. The rates for materials are **exclusive of GST**, duties and other local levies.
3. The rates for materials are **exclusive of** Seigniorage charges wherever applicable.
4. The rates for materials, **except** those for which lead charges are admissible as per the Statement of lead charges is for all leads.
5. The rates provided for useful rubble / stone chips from excavation shall be at dump yard.
6. Unless otherwise specified the rate of materials are inclusive of loading charges.

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00001	Acetylene gas	cum	370
2	MAT-00002	Asphalt 80/100 Grade	Kg	47
3	MAT-00003	Binding wire	Kg	70
4	MAT-00004	Burnt stone slab 10 cm thick	sqm	347
5	MAT-00005	Cement 43 Gr/53 Gr Note: Rate as fixed by the Government	tonne	4,220
6	MAT-00006	Chequered plate	Kg	66
7	MAT-00007	Coarse aggregate 10-4.75 mm	cum	1,016
8	MAT-00008	Coarse aggregate 20-10 mm	cum	1,395
9	MAT-00009	Coarse aggregate 40-20 mm	cum	1,333
10	MAT-00010	Coarse aggregate 80-40 mm	cum	728
		The aggregate rates mentioned above (from SI.No.7 to SI.No.10) are exclusive of Seigniorage charges but including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and		

		Basalt with aggregate impact of less than 20)		
11	MAT-00011	Coir brush	Each	52
SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
12	MAT-00012	Copper sheet 16 SWG	Kg	762
13	MAT-00013	Coursed rubble stone 30 x 30 x 45 cm	Each	29
14	MAT-00014	Coursed rubble stone 30 x 30 x 60 cm	Each	34
15	MAT-00015	Curing Compound	Ltr	137
16	MAT-00016	D – cord	Rm	9
17	MAT-00017	Delay - noiseless trunk	Each	22
18	MAT-00018	Detonating fuse coil	Rm	10
19	MAT-00019	Detonating shock tube / Cord relays	Rm	41
20	MAT-00020	Detonator delay type	Each	23
21	MAT-00021	Detonator electric	Each	12
22	MAT-00022	Detonator ordinary	Each	9
23	MAT-00023	Empty cement bag	Each	7
24	MAT-00024	Explosive ANFO	Kg	49
25	MAT-00025	Explosive ANFO high strength booster	Kg	76
26	MAT-00026	Explosive small dia (Kelvex-220 or equivalent)	Kg	76
27	MAT-00027	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items)	Cum	605
	MAT-00028	(b)Fineaggregate/Sand(un screened)for filling	Cum	460
28	MAT-00029	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items (Rs.95 is added towards screening Charges)	Cum	700
29	MAT-00030	Geo-textile (filter fabric) 160 gsm	Sqm	102
30	MAT-00031	Geo-textile (filter fabric) 200 gsm	Sqm	116

31	MAT-00032	Geo-textile (filter fabric) 250 gsm	Sqm	130
32	MAT-00033	G I Pipe 100 mm dia B Class	Rm	795
33	MAT-00034	G I Pipe 15 mm dia A class	Rm	99
SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
34	MAT-00035	G I pipe 25 mm dia A class	Rm	167
35	MAT-00036	G I pipe 40 mm dia B class	Rm	248
36	MAT-00037	G I pipe 50 mm dia A class	Rm	291
37	MAT-00038	G I Pipe 80 mm dia B Class	Rm	529
38	MAT-00039	G.I Bolts / Nuts and Washers	Kg	115
39	MAT-00040	G.I sheet (plain)	tonne	65,275
40	MAT-00041	Hariyala turfing sods	Sqm	30
41	MAT-00042	Hectometer stone one line dressed	Each	325
42	MAT-00043	Hemp yarn	Kg	83
43	MAT-00044	Honne wood planks	Cum	47,650
44	MAT-00045	Hume pipe with collar 150 mm dia	Rm	290
45	MAT-00046	Hume pipe with collar 300 mm dia	Rm	598
46	MAT-00047	J- Bolts 30 cm long	Each	45
47	MAT-00048	Jungle wood planks	Cum	20,863
48	MAT-00049	Khandki stone 15 to 20 cm height	Each	15
49	MAT-00050	Khandki stone 20 to 25 cm height	Each	21
50	MAT-00051	Khandki stone 25 to 30 cm height	Each	22
51	MAT-00052	Kilometer stone one line dressed	Each	574
52	MAT-00053	LDPE sheet (Geo membrane) 500 micron thick	Sqm	102
53	MAT-00054	LDPE sheet (Geo membrane) 750 micron thick	Sqm	145
54	MAT-00055	LDPE sheet (Geo membrane) 1000 micron thick	Sqm	201
55	MAT-00056	M S Bolts / Nuts / Washers	Kg	93
56	MAT-00057	Murrum	Cum	229

57	MAT-00058	Oxalic acid	Ltr	80
58	MAT-00059	Oxygen gas	Cum	46
59	MAT-00060	PVC sealing strip	Rm	48
SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
60	MAT-00061	PVC water stopper 310 mm wide	Rm	495
61	MAT-00062	PVC pipe of 100 mm dia	Rm	176
62	MAT-00063	Reinforcement steel (HYSD/TMT) Note: As per Monthly rate fixed by Sub-Committee	tonne	62,000
63	MAT-00064	Resin bond Cement capsule	Each	52
64	MAT-00065	Rough stone 20 x 20 x 75 cm	Each	29
65	MAT-00066	Shahabad stone slab	Sqm	283
66	MAT-00067	Stone chips (at dump yard/Spoil)	Cum	223
67	MAT-00068	Stone chips (at quarry)	Cum	411
68	MAT-00069	Structural steel angle / channel / beam / bars Note: As per Monthly rate fixed by Sub-Committee	Tonne	64,500
69	MAT-00070	a)Structural steel plate Note: As per Monthly rate fixed by Sub-Committee	Tonne	62,500
		b)Structural steel flats Note: As per Monthly rate fixed by Sub-Committee	Tonne	82,000
70	MAT-00071	Super Plasticizer (Conplast RP-264 or equivalent)	Kg	59
71	MAT-00072	Synthetic Enamel paint 1st quality	Ltr	253
72	MAT-00073	Synthetic adhesive (Resin + Hardener)	Kg	357
73	MAT-00074	Tar felt joint filler board 12 mm thick	Sqm	408
74	MAT-00075	Tar felt joint filler board 20 mm thick	Sqm	629
	MAT-00076	Through stones 20 x 20 x 30 to 45 cm		27

75			Each	
76	MAT-00077	Through stones 25 x 25 x 45 to 60 cm long	Each	47
77	MAT-00078	Through stones 30 x 30 x 65 to 75 cm long	Each	69
78	MAT-00079	Un-coursed rubble stones (at dump yard /Spoil)	Cum	193
79	MAT-00080	Un-coursed rubble stones (at quarry)	Cum	373
80	MAT-00081	Water proofing compound	Kg	85
SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
81	MAT-00082	Welding electrodes 4 mm dia	Each	16
82	MAT-00083	Wire brush	Each	46
83	MAT-00084	Wire mesh 20 gauge	sqm	248
84	MAT-00085	Zinc chromate red oxide primer paint	Ltr	184
85	MAT-00086	inorganic zinc silicate	Ltr	616
86	MAT-00087	solvent less coal tar epoxy paint	Ltr	298
87	MAT-00088	Zinc phosphate primer	Ltr	228
88	MAT-00089	Allkyd based iron oxide paint	Ltr	163
	MAT-00090	a) Cost of hdpe (90mm dia)	Rm	233
89	MAT-00091	b) light black MS casing pipe 100 mm dia (4mm thick)	Rm	512
90	MAT-00092	welded steel wire fabric 100X100X5 mm size	Kg	207
91	MAT-00093	Protective Mastic	Ltr	513
92	MAT-00094	Solventless coal tar epoxy (brown)	Ltr	317

**ADDITIONAL MATERIALS FOR GATES & HOISTS
FOR THE YEAR: 2022-23**

GUIDE LINES:

- a) For cast steel / Alloy steel / Forged steel / Bronze, aluminum alloy components the rates shall be inclusive of cost of basic metal for these components, casting / forging charges, machining charges and applicable excise duty on finished alloy component.
- b) For other materials the rates shall be of prevailing market rates.

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00108	Alloy steel (IS : 1570-carbon steel) shafts	Kg	256
2	MAT-00109	Alloy steel (IS : 1570-stainless steel) pins	Kg	469
3	MAT-00110	Bolt / Nut / Washer (hot dipped galvanized)	Kg	153
4	MAT-00111	Bolt / Nut / Washer (stainless steel)	Kg	399
5	MAT-00112	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	1,064
6	MAT-00113	Cast iron blocks	Kg	94
7	MAT-00114	Cast steel drums / gears	Kg	254
8	MAT-00115	Cast steel pinions	Kg	246
9	MAT-00116	Cast steel wheels / pulleys / hubs / rollers / Retainers	Kg	211
10	MAT-00117	Chemical for de-greasing/ de-rusting/phosphate Coating	Ltr	141
11	MAT-00118	Coal tar epoxy paint	Ltr	211
12	MAT-00119	Forged steel hooks / shackles	Kg	299
13	MAT-00120	MS pipe 200 / 300 mm dia	Kg	188
14	MAT-00121	MS pipe 32 mm dia	Rm	198
15	MAT-00122	MS pipe 25 mm dia	Rm	165
16	MAT-00123	Rubber bottom seal (IS : 11855) (100mmX14 mm)	Rm	706
17	MAT-00124	Rubber side seal (music note type Teflon claded) (IS : 11855) (36ØX113mmX14mm)	Rm	1,529
18	MAT-00125	Rubber side seal (music note type uncladed) (IS : 11855) (36ØX113mmX14mm)	Rm	1,131

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2022-23
1	2	3	4	5
19	MAT-00126	Rubber side seal Z-type (IS : 11855) (36ØX120mmX19mm)	Rm	1,448
20	MAT-00127	Rubber corner seal (Teflon claded) (IS : 11855) (36Ø)	Each	1,571
21	MAT-00128	Rubber corner seal (un claded) (IS : 11855) (36Ø)	Each	1,199
22	MAT-00129	Stainless steel plates / flats	Kg	309
23	MAT-00130	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen)	Each	21
24	MAT-00131	Welding electrode 4 mm dia x 450 mm (stainless steel)	Each	26
25	MAT-00132	Wire rope 6x37 constn (IS : 2266)	Kg	215
26	MAT-00133	Zinc	Kg	206
27	MAT-00134	Zinc rich (zinc content : 90 %) epoxy primer	Ltr	667

**MATERIALS FOR POWER SUPPLY WORKS
FOR THE YEAR: 2022-23**

SI No.	CFMS CODE	Description of Material	Unit	S. Rate for 2022-23
1	MAT-00135	Electric pole with fixtures	Each	For establishing Electrical Sub-Stations at the Project Sites wherever necessary, the rates approved by APTRANSCO may be followed.
2	MAT-00136	Flood light 500 W	Each	
3	MAT-00137	Flood light set	Each	
4	MAT-00138	Flousscent tube light 40 W	Each	
5	MAT-00139	Flousscent tube light set	Each	
6	MAT-00140	HT / LT Circuit breaker with accessories	Set	
7	MAT-00141	HT / LT Line conductor	1000 m	
8	MAT-00142	PVC Armoured cable 10 sqmm and below	Rm	
9	MAT-00143	PVC Armoured cable 16 sqmm	Rm	
10	MAT-00144	PVC Armoured cable 25 sqmm	Rm	
11	MAT-00145	PVC Armoured cable 70 sqmm	Rm	

DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT FOR THE
YEAR: 2022-23
GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:

1. The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be exclusive of GST, duties and other levies.
2. The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.
3. The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and Other consumable accessories shall not be included in the capital cost.
4. In cases, where the current capital cost of machinery/ equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

SI No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
1	MAT-00600	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	21,25,574
	MAT-00601	tyres and tubes 6 sets		81,897
2	MAT-00602	Air compressor 5 cmm electric	Each	6,67,122
3	MAT-00603	Air compressor 7 cmm diesel	Each	8,91,675
4	MAT-00604	Air compressor 7 cmm electric	Each	8,35,947
5	MAT-00605	Air compressor 8.5 cmm diesel	Each	10,40,232
6	MAT-00606	Air compressor 8.5 cmm electric	Each	10,74,033
7	MAT-00607	Air compressor 15 cmm electric	Each	13,13,627
8	MAT-00608	Angle Dozer 90 hp	Each	54,25,452
9	MAT-00609	Batching plant 0.5 cum with accessories (6 Cum/hr)	Each	11,98,939
10	MAT-00610	Batching plant 2 x 1.00 cum with accessories (15 Cum/hr)	Each	42,41,218
11	MAT-00611	Batching plant 2 x 1.50 cum with accessories (50 Cum/hr)	Each	64,94,474
12	MAT-00612	Bending machine	Each	5,50,722
13	MAT-00613	Clam shell and hoisting ropes	Each	31,403
14	MAT-00614	Concrete bucket 1.5 cum	Each	55,065
15	MAT-00615	Concrete hand mixer 45/30 ltr	Each	15,651
16	MAT-00616	Concrete mixer 300/200 ltr(diesel)	Each	1,47,030
17	MAT-00617	Concrete mixer 300/200 ltr (electric)	Each	1,43,020

18	MAT-00618	Concrete mixer 600/400 ltr(diesel)	Each	2,49,187
19	MAT-00619	Concrete mixer 600/400 ltr (electric)	Each	2,44,102
SI No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
20	MAT-00620	Concrete paver 100 Sqm / hr	Each	23,45,010
21	MAT-00621	Convey mucker (excluding tyres)	Each	37,96,355
	MAT-00601	tyres and tubes 6 sets		81,897
22	MAT-00622	Core drilling machine	Each	10,87,512
23	MAT-00623	Diesel generating set 30 KVA	Each	4,93,569
24	MAT-00624	Diesel generating set 50 KVA	Each	6,16,540
25	MAT-00625	Diesel Loco 45 hp	Each	20,95,941
26	MAT-00626	Dewatering pump 5 hp diesel	Each	39,767
27	MAT-00627	Dewatering pump 5 hp electric	Each	24,678
28	MAT-00628	Dewatering pump 10 hp diesel	Each	60,056
29	MAT-00629	Dewatering pump 10 hp electric	Each	54,952
30	MAT-00630	Dewatering pump 20 hp diesel	Each	1,90,055
31	MAT-00631	Dewatering pump 20 hp electric	Each	1,03,061
32	MAT-00632	Drifter	Each	10,48,289
33	MAT-00633	Drilling jumbo (excluding tyres)	Each	13,20,928
	MAT-08524	tyres and tubes 6 sets		81,897
34	MAT-00634	Dumper 4.5 cum (excluding tyres)	Each	14,70,234
	MAT-00601	tyres and tubes 6 sets		81,897
35	MAT-00635	Geophysical Ele.resistivity meter	Each	5,06,963
36	MAT-00636	Grouting pump	Each	97,064
37	MAT-00637	Guniting / sand blasting equipment	Each	3,04,944
38	MAT-00638	Ice plant with accessories 30 t / day	Each	25,30,002
39	MAT-00639	Jack hammer	Each	63,850
40	MAT-00640	Needle vibrator 40 mm petrol	Each	19,777
41	MAT-00641	Needle vibrator 40 mm electric	Each	20,738
42	MAT-00642	Needle vibrator 60 mm petrol	Each	20,568
43	MAT-00643	Needle vibrator 60 mm electric	Each	25,371
44	MAT-00644	Planing machine 4 m stroke	Each	8,38,962
45	MAT-00645	Plate shearing machine up to 12 mm	Each	4,57,129
46	MAT-00646	Pneumatic placer 0.5 cum	Each	5,72,090

47	MAT-00647	Pneumatic tamper	Each	84,192
SI No:	CFMS CODE	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2022-23
1	2	3	4	5
48	MAT-00648	Pug cutting machine	Each	17,906
49	MAT-00649	Pusher leg	Each	54,584
50	MAT-00650	Road roller diesel 10 t	Each	8,62,359
51	MAT-00651	Shovel 0.50 cum 75 hp	Each	38,20,509
52	MAT-00652	Shovel 0.85 cum 110 hp	Each	63,82,483
53	MAT-00653	Stationery derrick crane 5 t	Each	6,47,090
54	MAT-00654	Tipper 5 cum (excluding tyres)	Each	16,55,750
	MAT-00601	tyres and tubes 6 sets		81,897
55	MAT-00655	Tipping tub 1.5 cum	Each	2,40,093
56	MAT-00656	Tower crane 5 tonne	Each	73,72,995
57	MAT-00657	Transformer 250 KVA	Each	4,92,181
58	MAT-00658	Truck 10 t (excluding tyres)	Each	14,61,655
	MAT-00601	tyres and tubes 6 sets		81,897
59	MAT-00659	Truck mounted derrick crane 5 t (excluding tyres)	Each	20,17,167
	MAT-00601	tyres and tubes 6 sets		81,897
60	MAT-00660	Upright drilling machine	Each	56,138
61	MAT-00661	Ventilation fan 20 hp	Each	2,88,485
62	MAT-00662	Vibratory pad foot roller 8 t	Each	29,92,884
63	MAT-00663	Wagon drill	Each	6,54,864
64	MAT-00664	Water tanker 8000 ltr (excluding tyres)	Each	15,23,136
	MAT-00601	tyres and tubes 6 sets		81,897
65	MAT-00665	Welding set	Each	50,833
66	MAT-00666	Winch 35 hp electric	Each	3,98,999
67	MAT-00667	Hydraulic Truck Crane 30T	Each	1,51,48,035
	MAT-08525	tyres and tubes 6 sets		1,80,761
68	MAT-00668	Hydraulic Truck Crane 16T	Each	1,04,49,868
	MAT-08526	tyres and tubes 6 sets		1,74,362
69	MAT-00669	Heavy Duty Airless Spray Painting Equipment	Each	4,85,219
70	MAT-00670	Concrete Placer Pump(25 Cum/hr)(Electric)	Each	31,64,471

ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR: 2022-23

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00671	Casing shoe bit	Each	11,641
2	MAT-00672	Diamond core bit BX size	Each	11,876
3	MAT-00673	Diamond core bit NX size	Each	14,257
4	MAT-00674	Double tube core barrel	Each	15,200
5	MAT-00675	Extension drill rod with coupling sleeve	Rm	2,158
6	MAT-00676	Jack hammer drill rod 1.5 m	Each	4,253
7	MAT-00677	Jack hammer drill rod 2.5 m	Each	6,366
8	MAT-00678	Nozzle for Guniting / sand blasting gun	Each	708
9	MAT-00679	Paving Cylinder	Each	31,163
10	MAT-00680	Rails 30R (30 kg / m)	tonne	57,710
11	MAT-00681	Reamer shell	Each	5,712
12	MAT-00682	T.C. Cross bit 50 mm dia	Each	5,603
13	MAT-00683	T.C. Cross bit 75 mm dia	Each	11,205
14	MAT-00684	T.C. Cross bit 100 mm dia	Each	13,189
15	MAT-00685	Tyres and Tubes for truck	Set	16,078
16	MAT-00686	Wire rope 16 mm dia	Rm	306
17	MAT-00687	Excavation of drain with Excavator	Cum	43

AGGREGATE CRUSHING & PROCESSING PLANT

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1		Jaw crusher 900 x 500 mm (120 tph) with 50 hp Motor	Each	These items are no where being used in the Standard Data. Hence this may be deleted from SoR
2		Jaw crusher 500 x 300 mm (60 tph) with 30 hp Motor	Each	
3		Jaw crusher 400 x 225 mm (10 tph) with 25 hp Motor	Each	
4		Jaw plates 900 x 500 mm (serreted)	Set	
5		Jaw plates 500 x 300 mm (serreted)	Set	
6		Jaw plates 400 x 225 mm (serreted)	Set	
7		Nylon Conveyor belt 3 ply 600 mm width	Rm	
8		Nylon Conveyor belt 3 ply 1000 mm width	Rm	

OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT FOR THE YEAR: 2022-23

- The rate provided for ' SUNDRIES' (Lump sum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.
- The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
- Demand charges and electric power charges shall be as per prevailing APEPDCL tariff.
- Rate of interest on capital cost shall be as approved by Govt or other competent authority.

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00688	Air hose 25 mm dia	Rm	189
2	MAT-00689	Air hose 50 mm dia	Rm	284
3	MAT-00690	Demand charges (HT-I : General-11 KV category) on power supply(as per APEPDCL tariff)	KVA / month	475
4	MAT-00691	Diesel	Ltr	99.74
5	MAT-00692	Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A):General-11 KVA Category) (as per APEPDCL tariff)	Kwhr	9.45

6	MAT-00693	Excise duty on Gates / Hoist supplies	%	0
SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
7	MAT-00694	Insurance charges on machinery	% / annum	1
8	MAT-00695	Interest on capital cost	% / annum	9
9	MAT-00696	Lubricants	Ltr	267
10	MAT-00697	Petrol	Ltr	112.01
11	MAT-00698	Rivets	Kg	103
12	MAT-00699	Road tax on transport vehicles	Rs./annum	As per RTA
13	MAT-00700	Shalimatic sealing compound	Kg	100
14	MAT-00701	Shutter oil	Ltr	58
15	MAT-00702	Structural steel fabrication	Kg	34
16	MAT-00703	Sundries (Lump sum for un quantified inputs)	LS	38
17	MAT-00704	Water hose (pressure) 20 mm dia	Rm	190
18	MAT-00705	Steel wedges	LS	19
19	MAT-00706	Elbows / Nipple / Plugs etc.,	LS	19
20	MAT-00707	Soldering materials	LS	19
21	MAT-00708	Steam circulation arrangement	LS	19
22	MAT-00709	Fuel charges (gas for heating)	LS	24
23	MAT-00710	Vulcanizing materials	LS	24
24	MAT-08527	Other accessories / controls / junctions	LS	24
25		Miscellaneous fittings / switches etc	LS	Deleted
26		Anchors / supports for cables / lights	LS	Deleted
27		Civil works for foundations / pedestals / duct etc	LS	Deleted
28	MAT-00711	Gas cutting set (2 No's 15 m hose and nozzle unit)	Each	14,947
29	MAT-00712	Grease	Kg	282
30	MAT-00713	Welding holder set (cable / holder / gloves / mask etc)	Each	8,412
31	MAT-00385	Use rate of ropes	LS	186

MATERIALS FOR GATES AND HOISTS FOR THE YEAR: 2022-23

SI No.	CFMS CODE	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2022-23
1	2	3	4	5
1	MAT-00095	Worm reducers	Each	2,02,620
2	MAT-00096	Electric motor 20 hp(Double Shaft)	Each	1,15,312
3	MAT-00097	Electric motor 17.5 hp(Double Shaft)	Each	77,599
4	MAT-00098	Electric motor 12.5 hp(Double Shaft)	Each	65,545
5	MAT-00099	Electric motor 5 hp(Double Shaft)	Each	29,740
6	MAT-00100	Electric motor 3 hp (Double Shaft)	Each	20,672
7	MAT-00101	Electric motor 2 hp (Double Shaft)	Each	11,668
8	MAT-00102	Floating shaft 300 mm dia	Kg	194
9	MAT-00103	Manual operating system	Each	30,614
10	MAT-00104	Gate position indicator	Each	1,98,141
11	MAT-00105	Ele-magnetic brake	Each	31,926
12	MAT-00106	Electric cable / switch / control panel etc	LS	51,923
13	MAT-00107	Wire rope sockets	Each	5,014

**Materials other than covered under WR work items
for the year 2022-23**

GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:

1. Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
2. The rates for materials is **exclusive of** GST, duties and other local levies.
3. The rates for materials are **exclusive of** Seigniorage charges wherever applicable.
4. The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-002	MAT-00175	Quarried stone 150 - 200 mm size for Hand Broken	Cum	178
M-003	MAT-00176	Boulder with minimum size of 300 mm for Pitching	Cum	195
M-004		Coarse sand for filling	Cum	Rate as per item no.27 (b) of Material rates of WRD.
M-005		Coarse sand for mortar	Cum	Rate as per item no.27 (a) of Material rates of WRD.
M-006		Fine Sand	Cum	Rate as per item no.28 of Material rates of WRD.
M-007		Murrum	Cum	Rate as per item no.56 of Material rates of WRD.
M-008	MAT-00177	Gravel/Quarry spall	Cum	149
M-009		Granular Material or hard Murrum for GSB works	Cum	Deleted
M-010	MAT-00178	Granular Material or hard Murrum for GSB works	Cum	109
M-011	MAT-00179	Fly ash conforming to IS: 3812 (Part II & I)	Cum	81
		For item No.M-012 to M-055 the note shall be as follows 1. The rates mentioned are exclusive of Seigniorage charges but inclusive of blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted. 2. If the material is obtained by hand broken from		

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

		surface boulders/canal spoil, the blasting and crushing charges shall be deducted. 3. The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		
--	--	--	--	--

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-012	MAT-00180	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)	Cum	379
M-013	MAT-00181	Close graded Granular sub-base Material 53 mm to 9.5 mm	Cum	740
M-014	MAT-00182	Close graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	764
M-015	MAT-00183	Close graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	812
M-016	MAT-00184	Close graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	674
M-017	MAT-00185	Close graded Granular sub-base Material 9.5 mm to 2.36 mm	Cum	650
M-018	MAT-00186	Close graded Granular sub-base Material 4.75mm to 2.36 mm	Cum	576
M-019	MAT-00187	Close graded Granular sub-base Material 4.75mm to 75 micron mm.	Cum	552
M-020	MAT-00188	Close graded Granular sub-base Material 2.36 mm	Cum	549
M-021	MAT-00189	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.	Cum	395
M-022	MAT-00191	Coarse graded Granular sub-base Material 2.36 mm & below	Cum	547
M-023	MAT-00192	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cum	532
M-024	MAT-00193	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cum	532
M-025	MAT-00194	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm	Cum	654
M-026	MAT-00195	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm	Cum	713
M-027	MAT-00196	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm	Cum	716
M-028	MAT-00197	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm	Cum	795
M-029	MAT-00198	Coarse graded Granular sub-base Material 53 mm to 26 .5mm	Cum	978
M-030	MAT-00199	Aggregates below 5.6 mm	Cum	638
M-031	MAT-00200	Aggregates 22.4 mm to 2.36 mm	Cum	1046

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-032	MAT-00201	Aggregates 22.4 mm to 5.6 mm	Cum	1,187
M-033	MAT-00202	Aggregates 45 mm to 2.8 mm	Cum	762
M-034		Aggregates 45 mm to 22.4 mm	Cum	Rate as per item no.9 of Material rates of WRD.
M-035	MAT-00203	Aggregates 53 mm to 2.8 mm	Cum	1,048
M-036	MAT-00204	Aggregates 53 mm to 22.4 mm	Cum	993
M-037	MAT-00205	Aggregates 63 mm to 2.8 mm	Cum	820
M-038	MAT-00206	Aggregates 63 mm to 45 mm	Cum	761
M-039		Aggregates 90 mm to 45 mm	Cum	Rate as per item no.10 of Material rates of WRD.
M-040		Aggregates 10 mm to 5 mm	Cum	Rate as per item no.07 of Material rates of WRD.
M-041	MAT-00207	Aggregates 11.2 mm to 0.09 mm	Cum	822
M-042	MAT-00208	Aggregates 13.2 mm to 0.09 mm	Cum	931
M-043	MAT-00209	Aggregates 13.2 mm to 5.6 mm	Cum	1,067
M-044	MAT-00210	Aggregates 13.2 mm to 10 mm	Cum	1,187
M-045		Aggregates 20 mm to 10 mm	Cum	Rate as per item no.08 of Material rates of WRD.
M-046	MAT-00211	Aggregates 25 mm to 10 mm	Cum	1,297
M-047	MAT-00212	Aggregates 19 mm to 6 mm	Cum	1,193
M-048	MAT-00213	Aggregates 37.5 mm to 19 mm	Cum	1,285
M-049	MAT-00214	Aggregates 37.5 mm to 25 mm	Cum	1,336
M-050	MAT-00215	Aggregates 6 mm nominal size	Cum	865
M-051	MAT-00216	Aggregates 10 mm nominal size	Cum	1,070
M-052	MAT-	Aggregates 13.2/12.5 mm nominal size	Cum	1,260

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

	00217			
--	-------	--	--	--

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-053	MAT-00218	Aggregates 20 mm nominal size	Cum	1,565
M-054	MAT-00219	Aggregates 25 mm nominal size	Cum	1,501
M-055	MAT-00220	Aggregates 40 mm nominal size	Cum	965
M-056		AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	MAT-00221	Acrylic polymer bonding coat	Litre	556
M-058	MAT-00222	Aluminum Paint	Litre	308
M-059	MAT-00223	Aluminum alloy plate 2mm Thick	Sqm	401
M-060	MAT-00224	Aluminum alloy/Galvanized steel	Tonne	70,799
M-061	MAT-00225	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	930
M-062	MAT-00226	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market Rate
M-063	MAT-00227	Barbed wire	Kg	83
M-064	MAT-00228	Bearing (Cost of parts)	No's	573
M-065	MAT-00229	Bearing (Cast steel rocker bearing assembly of 250 tonne)	No's	798
M-066	MAT-00230	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm ³	As per Market competitive rates.
M-067	MAT-00231	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	MAT-00232	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's	
M-069	MAT-00233	Bearing (PTFE sliding plate bearing assembly of 80 tonnes)	No's	

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

M-070	MAT-00234	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	MAT-00235	Bentonite	Kg	9

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-072		Binding wire	Kg	Rate as per item no.3 of Material rates of WRD.
M-073	MAT-00236	Bitumen (Cationic Emulsion)	Tonne	As per rates fixed by R&B Dept based on refinery rates
M-074	MAT-00237	Bitumen (60-70 grade)	Tonne	
M-075	MAT-00238	Bitumen (80-100 grade)	Tonne	
M-076	MAT-00239	Bitumen (Cutback)	Tonne	
M-077	MAT-00240	Bitumen (emulsion)	Tonne	
M-078	MAT-00241	Bitumen (modified graded)	Tonne	
M-079		Brick	Each	As per Building SSR
M-080	MAT-00242	C.I. shoes for the pile	Kg	63
M-081		Cement	Tonne	Rate as per item no.5 of Material rates of WRD.
M-082		Cold twisted bars (HYSD/TMT Bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-083	MAT-00243	Collar for joints 300 mm dia	No's	159
M-084	MAT-00244	Compressible Fibre Board(20mm thick)	Sqm	575
M-085	MAT-00245	Connectors/ Staples	Each	80
M-086	MAT-00246	Copper Plate(12m long x 250mmwide)	Kg	308
M-087	MAT-00247	Corrosion resistant Structural steel	Tonne	Monthly Rate as fixed by the Sub-Committee
M-088	MAT-00248	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	218
M-089	MAT-00249	Credit for excavated rock found suitable for use	Cum	239
M-090	MAT-00250	Curing compound	Liter	Rate as per item no.15 of Material rates of WRD.

M-091	MAT-00251	Delineators from ISI certified firm as per the standard drawing given in IRC – 79	Each	Rate as per local competitive quotations
Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-092	MAT-00252	Earth Cost or compensation for selected earth for shoulders taken from Private Land	Cum	130
M-093	MAT-00253	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations
M-094		Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item no.21 of Material rates of WRD.
M-095	MAT-00254	Epoxy compound with accessories for preparing epoxy mortar	Kg	362
M-096	MAT-00255	Epoxy mortar	Kg	120
M-097	MAT-00256	Epoxy primer	Kg	603
M-098	MAT-00257	Epoxy resin-hardener mix for prime coat	Kg	646
M-099	MAT-00258	Flag of red color cloth 600 x 600 mm	Each	26
M-100	MAT-00259	Flowering Plants	Each	49
M-101	MAT-00260	Galvanized MS flat clamp	No's	194
M-102	MAT-00261	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	188
M-103	MAT-00263	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	962
M-104	MAT-00264	Gelatin 80%	Kg	68
M-105	MAT-00265	Geo grids	Sqm	Rate as per local competitive quotations
M-106		(a)Geo membrane 500 micron thick	Sqm	Rate as per item No.

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

				52 of WRD
		(b) Geo membrane 750 micron thick	Sqm	Rate as per item No. 53 of WRD
		(c) Geo membrane 1000 micron thick	Sqm	Rate as per item No. 54 of WRD

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-107	MAT-00266	Geo nets	Sqm	Rate as per local competitive quotations
M-108		(a)Geo textile 160 gsm	Sqm	Rate as per item No. 29 of WRD
		(b) Geo textile 200 gsm	Sqm	Rate as per item No. 30 of WRD
		(c) Geo textile 250 gsm	Sqm	Rate as per item No. 31 of WRD
M-109	MAT-00267	Geo textile filter fabric	Sqm	Rate as per local competitive quotations
M-110	MAT-00268	GI bolt 10 mm Dia	No's	23
M-111		Grouting pump with agitator	Hour	Rate covered in Item No.36 of hire charges Of machinery of Water Resources work items
M-112	MAT-00269	Grass (Doob)	Kg	8
M-113	MAT-00270	Grass (Fine)	Kg	10
M-114		HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115		HDPE pipes 90mm dia	Metre	
M-116	MAT-00271	Hedge plants	Each	Rate as per local competitive quotations
M-117	MAT-00272	Helical pipes 600mm diameter	Metre	
M-118	MAT-00273	Hot applied thermoplastic compound	Litre	
M-119	MAT-00274	HTS strand	Tonne	42,632
M-120	MAT-00275	Joint Sealant Compound	Kg	70
M-121		Jute netting, open weave, 2.5 cm square opening	Sqm	94

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

	MAT-00276	for seeding and Mulching		
--	-----------	--------------------------	--	--

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-122	MAT-00277	LDO for steam curing	Litre	70
M-123		M.S. Clamps	Kg	Deleted
M-124	MAT-00278	M.S. Clamps	Kg	Rate as per local market rate
M-125	MAT-00279	M.S. shoes @ 35 Kg per pile of 15 m	Kg	
M-126	MAT-00280	Mild Steel bars	Tonne	54,500
M-127	MAT-00281	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-128	MAT-00282	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-129	MAT-00283	Nipples 12mm	No's	23
M-130	MAT-00284	Nuts and bolts	Kg	112
M-131	MAT-00285	Paint	Litre	260
M-132	MAT-00286	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	MAT-00287	Paving Fabric	Sqm	
M-134	MAT-00288	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	MAT-00290	Perforated pipe of cement concrete, internal dia 100 mm	Metre	
M-136	MAT-00291	Pesticide	Kg	

M-137		R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item
-------	--	---	-------	----------------------------

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-138	MAT-00292	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	57
M-139	MAT-00293	Plastic tubes 50 cm dia , 1.2 m high	No's	Rate as per local market rate
M-140	MAT-00294	Polymer braids	Metre	
M-141	MAT-00295	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	320
M-142	MAT-00296	Pre-coated stone chips of 13.2 mm nominal size	Cum	Rate as per local competitive quotations
M-143	MAT-00297	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Metre	
M-144	MAT-00298	Pre-moulded asphalt filler board	Sqm	
M-145	MAT-00299	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	
M-146	MAT-00300	Sealant Primer	Kg	
M-147	MAT-00301	Quick setting compound	Kg	35
M-148	MAT-00302	Random Rubble Stone	Cum	298
M-149		RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia	Metre	Rate as per PH items
M-150		RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre	
M-151		RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre	
M-152	MAT-00303	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	MAT-00304	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	MAT-00305	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	MAT-00306	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	
M-156	MAT-00307	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

M-157	MAT-00308	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre
-------	-----------	--	-------

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-158	MAT-00309	Rivets	Each	8
M-159		Sand bags (Cost of sand and Empty cement bag)	Per bag	Rate as per Item no.2 of miscellaneous items
M-160	MAT-00310	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	MAT-00311	Scrap tyres of size 900 x 20	No's	82
M-162	MAT-00312	Seeds(Grass)	Kg	22
M-163		Cost of Selected earth	Cum	Deleted
M-164	MAT-00313	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations
M-165	MAT-00314	Sheathing duct	Metre	
M-166	MAT-00315	Shrubs	Each	19
M-167	MAT-00316	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	Rate as per local competitive quotations
M-168		Sodium vapour lamp	Each	As per Buildings SSR
M-169	MAT-00317	Square Rubble Coursed Stone	Cum	2,679
M-170	MAT-00318	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	Rate Obtained from Electricity/Municipal Departments
M-171	MAT-00319	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	MAT-00320	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate
M-173	MAT-00321	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	MAT-00322	Steel pipe 25 mm external dia as per IS:1239	Metre	318
M-175	MAT-00323	Steel pipe 50 mm external dia as per IS:1239	Metre	625
M-176	MAT-	Steel wire rope 20 mm	Kg	213

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

	00324			
M-177	MAT-00325	Steel wire rope 40 mm	Kg	236

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-178	MAT-00326	Strip seal expansion joint	Metre	Rate as per local competitive quotations
M-179		Structural Steel(HYSD/TMT bars)	Tonne	Rate as per item no.62 of Material rates of WRD
M-180		Super plasticizer admixture IS marked as per 9103-1999	Kg	Rate as per item no.70 of Material rates of WRD
M-181	MAT-00327	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	Rate as per local competitive quotations
M-182		Through and bond stone (a) 20X20x30 to 45 cm long	Each	Rate as per item no.75 of Material rates of WRD.
		Through and bond stone (b) 25X25x45 to 60 cm long	Each	Rate as per item no.76 of Material rates of WRD.
		Through and bond stone (c) 30X30x65 to 75 cm long	Each	Rate as per item no.77 of Material rates of WRD.
M-183	MAT-00328	Tie rods 20mm diameter	No's	58
M-184		Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185		Timber	Cum	
M-186	MAT-00329	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations
M-187	MAT-00330	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	
M-188	MAT-00331	Un slaked lime	Tonne	3,045
M-189(a)	MAT-00332	Water charges(Urban)	KiloLitre	125
(b)	MAT-00333	Water charges(Rural)	KiloLitre	95
M-190		Water based cement paint	Litre	As per Building SSR

Part I - Materials not covered under WR Work items basic data – Common SoR 2022-23

M-191	MAT-00334	Welded steel wire fabric	Kg	159
M-192	MAT-00335	Wire mesh 50mm x 50mm size of 3mm wire	Kg	282

Sl. No.	CFMS CODE	Description	Unit	S. Rate for 2022-23
1	2	3	4	5
M-193		Wooden ballies 2" Dia for bracing	Each	As per Building SSR
M-194		Wooden ballies 8" Dia and 9 m long	Each	
M-195	MAT-00336	Wooden packing	Cum	1,286
M-196	MAT-00337	Wooden staff for fastening of flag 25 mm dia, one m long	Each	82
Item 8.3	MAT-00338	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	2
Item 8.8		Painting Two Coats on New Concrete Surfaces	Sqm	As per Building SSR
Item 8.9		Painting angle iron post Two Coats	Sqm	
		Miscellaneous Items		
1	MAT-00339	Benching old embankment slopes 0.45 X 0.45 M	RM	6
2	MAT-00340	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges with 13.615 % overhead charges and contractors profits. (sand rate for filling is considered) Note: During the emergency conditions such as floods and other natural calamities, the above rate is allowed to enhance by 25% for 1st warning level and above, keeping in view of the difficulty in availability of labour and vehicles.	per bag	37
3	MAT-00341	Rough stone for revetment 225mm thick	Cum	180
4	MAT-00342	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	3
5	MAT-00343	Thinner	Ltr	107
6	MAT-00344	Gear Oil	Ltr	290
7	MAT-00345	Cardium compound	kg	116

Conveyance Charges of Material

CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2022-23 (COMMON TO ALL DEPARTMENTS).

LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE YEAR: 2022-23

1. For total lead up to 150 m (including initial lead) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for Preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative & includes previous km up to 5 kms
12. The lead & lift charges are exclusive of contractor's profit and overhead charges of 13.615%
13. The loading and unloading charges are also exclusive of Contractor's profit and overhead charges of 13.615%
14. During the BoCEs meeting held on 10.06.2015, the BoCEs has recommended to withdraw lead charges, loading and unloading charges for Cement as per the minutes of meeting of Sub-Committee held on 29.06.2015. (The conveyance charges, loading & unloading charges for cement are displayed for information purpose only).
15. As per the BOCE meeting held on 21.08.2019 in order to simplify the procedure of adding lead charges to the data items in the CFMS work module, the BOCE recommended to delete the contractor profit and over head charges from the calculation of Lead, Lift, Loading and Unloading charges. But at the time of preparation of estimates

the contractor profit and over head charges on Lead, Lift, Loading and Unloading charges shall be added as usual.

**A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS
BY HEAD LOAD FOR THE YEAR: 2022-23**

SI No.	Total distance (Total lead includes initial lead)	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate	Cement / Reinforcement steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/BS slab/ Late-rite / Wood Rs /cum
1	2	3	4	5
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	75.00	43.80	95.50
3	Total lead up to 150 m	150.00	87.50	190.90

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.
2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

**B. (LEAD) CONVEYANCE CHARGES FOR MACHINERY PER KILOMETER FOR TRANSPORTING MATERIALS BY TIPPERS AND TRUCKS EXCLUDING LOADING, UNLOADING AND IDLE HIRE CHARGES OF MACHINERY FOR THE YEAR: 2022-23
(No loading and unloading charges allowed for machinery loading and unloading)**

SI No.	Distance	(Lead) charges for tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter	(Lead) charges for trucks for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/ tonne	(Lead) charges for trucks per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for 1000 litres	(Lead) charges for trucks per 1000 nos. of bricks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	36.00	34.70	21.70	51.00	21.90	57.80
2	Lead up to 2 km	50.40	48.50	30.30	71.40	30.70	80.90
3	Lead up to 3 km	67.20	64.70	40.40	95.20	40.90	107.80
4	Lead up to 4 km	81.60	78.60	49.10	115.60	49.70	131.00
5	Lead up to 5 km	96.00	92.40	57.80	135.90	58.40	154.10
6	for Every km beyond 5 km up to 30 km	14.40	13.90	8.70	20.40	8.80	23.10
7	for Every km beyond	12.00	11.60	7.20	17.00	7.30	19.30

C. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**(idle hire charges of trucks are not added)**

SI No.	Description of item	Earth / Sand /Gravel Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate , Lime in Rs/cum	Cement in Rs/tonne	Steel in Rs./tonne	Brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	24.90	49.80	82.10	98.50	68.50
2	Unloading	12.45	24.90	82.10	98.50	68.50

D. LOADING AND UNLOADING CHARGES BY MANUAL MEANS**(Including idle hire charges of trucks)**

SI No.	Description of item	Earth / Sand /Gravel Murrum/ Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate , Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
1	2	3	4	5	6	7
1	Loading	129.90	154.80	197.70	214.00	259.10
2	Unloading	47.30	77.40	197.70	214.00	259.10

E. LOADING AND UNLOADING CHARGES BY MECHANICAL MEANS**(Including idle hire charges of trucks)**

SI No.	Description of item	Earth / Sand /Gravel Murrum/ Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum
1	2	3	4
1	Loading	57.70	114.90
2	Unloading	18.20	18.20

F. LIFT CHARGES FOR MATERIALS BY HEADLOAD

SI No.	Total lift (Total lift includes initial lift)	Earth / Sand /Gravel Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs / cum	Cement / Reinforcement steel Str steel Rs / tone	PCC slab/ Shahbad slab / CC block/ BS slab /Laterite / Wood Rs / cum
1	2	3	4	5
1	Total lift up to 3 m (covered by item rate)	Initial lift	Initial lift	Initial lift
2	For Every 1.00 Lift beyond initial lift of 3 meters	8.80	6.30	11.70

HIRE CHARGES

**HIRE CHARGES OF PLANT &
MACHINERY FOR THE YEAR: 2022-23**

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
1	Agitator car / Transit mixer 2 cum	Hour	HIR-00001	719.30	HIR-00135	1508.60	LAB-00317	391.60	2619.50
2	Air compressor 5 cmm (electric)	Hour	HIR-00002	97.10	HIR-00136	285.50	LAB-00318	230.10	612.70
3	Air compressor 7 cmm (diesel)	Hour	HIR-00003	218.50	HIR-00137	1234.30	LAB-00319	294.50	1747.30
4	Air compressor 7 cmm (electric)	Hour	HIR-00004	121.70	HIR-00138	380.70	LAB-00320	230.10	732.50
5	Air compressor 8.5 cmm (diesel	Hour	HIR-00005	254.90	HIR-00139	1542.90	LAB-00321	294.50	2092.30
6	Air compressor 8.5 cmm (Electric)	Hour	HIR-00006	156.40	HIR-00140	475.90	LAB-00322	230.10	862.40
7	Air compressor 15 cmm (electric)	Hour	HIR-00007	123.90	HIR-00141	1057.50	LAB-00323	245.40	1426.80
8	Angle Dozer 90 hp	Hour	HIR-00008	1650.20	HIR-00142	1055.30	LAB-00324	326.30	3031.80
9	Batching plant 0.5cum(6 cum/hr)	Hour	HIR-00009	106.90	HIR-00143	126.90	LAB-00325	473.50	707.30
10	Batching plant 2 x 1.00 cum(15 cum/hr)	Hour	HIR-00010	378.20	HIR-00144	380.70	LAB-00326	473.50	1232.40
11	Batching plant 2 x 1.50 cum(50 cum/hr)	Hour	HIR-00011	579.10	HIR-00145	465.30	LAB-00327	473.50	1517.90
12	Bending machine 3000 x 12 mm	Hour	HIR-00012	41.30	HIR-00146	126.90	LAB-00328	184.10	352.30
13	Clam shell and hoisting ropes	Hour	HIR-00013	5.70	HIR-00147	0.00		0.00	5.70
14	Concrete bucket 1.5 cum	Hour	HIR-00014	15.10	HIR-00148	0.00		0.00	15.10
15	Concrete hand mixer 45 / 30 ltr	Hour	HIR-00015	5.40	HIR-00149	0.00		0.00	5.40
16	Concrete mixer 300 / 200 (diesel)	Hour	HIR-00016	51.00	HIR-00150	137.10	LAB-00329	306.80	494.90
17	Concrete mixer 300 / 200 ltr (electric)	Hour	HIR-00017	49.60	HIR-00151	42.30	LAB-00330	306.80	398.70
18	Concrete mixer 600 / 400 (diesel) / 0.28 cum	Hour	HIR-00018	86.40	HIR-00152	274.30	LAB-00331	306.80	667.50
19	Concrete mixer 600 / 400 ltr (electric)	Hour	HIR-00019	84.60	HIR-00153	84.60	LAB-00332	306.80	476.00

Machinery Hire Charges – Common SoR 2022-23

20	Concrete paver 100 sqm / hr	Hour	HIR- 00020	334.20	HIR- 00154	0.00	LAB- 00333	589.10	923.30
-----------	--------------------------------	------	---------------	--------	---------------	------	---------------	--------	--------

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
21	Convey mucker	Hour	HIR-00021	775.90	HIR-00155	294.40	LAB-00334	245.40	1315.70
22	Core drilling machine / Drilling equipment	Hour	HIR-00022	303.10	HIR-00156	411.40	LAB-00335	391.60	1106.10
23	Diesel generating set 30 KVA	Hour	HIR-00023	62.90	HIR-00157	1097.10	LAB-00336	184.10	1344.10
24	Diesel generating set 50 KVA	Hour	HIR-00024	78.60	HIR-00158	1645.70	LAB-00337	184.10	1908.40
25	Diesel Loco 45 hp	Hour	HIR-00025	362.90	HIR-00159	925.70	LAB-00338	230.10	1518.70
26	Dewatering pump 5 hp (diesel)	Hour	HIR-00026	9.70	HIR-00160	137.10	LAB-00339	153.50	300.30
27	Dewatering pump 5 hp (electric)	Hour	HIR-00027	2.90	HIR-00161	42.30	LAB-00340	115.10	160.30
28	Dewatering pump 10 hp (diesel)	Hour	HIR-00028	14.70	HIR-00162	274.30	LAB-00341	153.50	442.50
29	Dewatering pump 10 hp (electric)	Hour	HIR-00029	6.40	HIR-00163	84.60	LAB-00342	115.10	206.10
30	Dewatering pump 20 hp (diesel)	Hour	HIR-00030	46.60	HIR-00164	548.60	LAB-00343	153.50	748.70
31	Dewatering pump 20 hp (electric)	Hour	HIR-00031	12.00	HIR-00165	169.20	LAB-00344	115.10	296.30
32	Drifter	Hour	HIR-00032	305.30	HIR-00166	0.00	LAB-00345	489.50	794.80
33	Drilling jumbo	Hour	HIR-00033	356.70	HIR-00167	74.10	LAB-00346	245.40	676.20
34	Dumper 4.5 cum	Hour	HIR-00034	568.50	HIR-00168	691.20	LAB-00347	313.20	1572.90
35	Geophysical Electric resistivity meter	Hour	HIR-00035	102.70	HIR-00169	0.00		0.00	102.70
36	Grouting pump	Hour	HIR-00036	22.60	HIR-00170	42.30	LAB-00348	368.20	433.10
37	Guniting / sand blast equipment	Hour	HIR-00037	116.90	HIR-00171	0.00	LAB-00349	306.80	423.70
38	Ice plant & accessories 30 t / day	Hour	HIR-00038	175.50	HIR-00172	1205.50	LAB-00350	184.10	1565.10
39	Jack hammer	Hour	HIR-00039	18.60	HIR-00173	0.00	LAB-00351	460.20	478.80
40	Needle vibrator 40 mm (petrol)	Hour	HIR-00040	7.40	HIR-00174	30.80	LAB-00352	220.90	259.10
41	Needle vibrator 40 mm (electric)	Hour	HIR-00041	7.80	HIR-00175	8.50	LAB-00353	220.90	237.20
42	Needle vibrator 60 mm (petrol)	Hour	HIR-00042	7.70	HIR-00176	46.20	LAB-00354	220.90	274.80
43	Needle vibrator 60	Hour	HIR-	9.50	HIR-	12.70	LAB-	220.90	243.10

Machinery Hire Charges – Common SoR 2022-23

	mm (electric)		00043		00177		00355		
--	-----------------	--	-------	--	-------	--	-------	--	--

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
44	Planing machine 4 m stroke	Hour	HIR-00044	119.60	HIR-00178	126.90	LAB-00356	294.50	541.00
45	Plate shearing machine upto 12 mm	Hour	HIR-00045	42.70	HIR-00179	169.20	LAB-00357	195.80	407.70
46	Pneumatic placer 0.5 cum	Hour	HIR-00046	164.50	HIR-00180	0.00	LAB-00358	119.90	284.40
47	Pneumatic tamper	Hour	HIR-00047	19.60	HIR-00181	0.00	LAB-00359	368.20	387.80
48	Pug cutting machine	Hour	HIR-00048	6.90	HIR-00182	4.20		0.00	11.10
49	Pusher leg	Hour	HIR-00049	12.70	HIR-00183	0.00		0.00	12.70
50	Road roller diesel 10 t	Hour	HIR-00050	192.30	HIR-00184	1234.30	LAB-00360	299.50	1726.10
51	Shovel 0.50 cum 75 hp	Hour	HIR-00051	987.00	HIR-00185	822.09	LAB-00361	326.30	2136.20
52	Shovel 0.85 cum 110 hp / Hydraulic Excavator	Hour	HIR-00052	1648.80	HIR-00186	1508.60	LAB-00362	326.30	3483.70
53	Stationery derrick crane	Hour	HIR-00053	80.90	HIR-00187	0.00		0.00	80.90
54	Tipper 5 / 5.5 cum	Hour	HIR-00054	436.30	HIR-00188	518.40	LAB-00363	244.70	1199.40
55	Tipping tub 1.5 cum	Hour	HIR-00055	62.40	HIR-00189	0.00		0.00	62.40
56	Tower crane 5 tonne	Hour	HIR-00056	803.70	HIR-00190	220.00	LAB-00364	261.00	1284.70
57	Transformer 250 KVA	Hour	HIR-00057	5400.30	HIR-00191	0.00		0.00	5400.30
58	Truck 10 t / Truck 5.5 cum per 10 tonnes	Hour	HIR-00058	395.30	HIR-00192	518.40	LAB-00365	241.80	1155.50
59	Truck mounted derrick crane 5 t	Hour	HIR-00059	512.50	HIR-00193	518.40	LAB-00366	241.80	1272.70
60	Upright drilling machine/Grinder	Hour	HIR-00060	21.80	HIR-00194	42.30	LAB-00367	269.10	333.20
61	Ventilation fan 20 hp	Hour	HIR-00061	12.10	HIR-00195	169.20	LAB-00368	39.70	221.00
62	Vibratory pad foot roller 8 t	Hour	HIR-00062	1328.10	HIR-00196	1782.90	LAB-00369	368.20	3479.20
63	Wagon drill	Hour	HIR-00063	182.50	HIR-00197	0.00	LAB-00370	391.60	574.10
64	Water tanker 8000 ltr	Hour	HIR-00064	408.30	HIR-00198	518.40	LAB-00371	241.80	1168.50

Machinery Hire Charges – Common SoR 2022-23

65	Welding set	Hour	HIR-00065	16.20	HIR-00199	101.50		0.00	117.70
-----------	-------------	------	-----------	-------	-----------	--------	--	------	--------

Machinery Hire Charges – Common SoR 2022-23

Sl. No	DESCRIPTION	UNIT	CODE	Hire Charges	CODE	Fuel Charges	CODE	Crew Charges	Total in Rs
66	Winch 35 hp (electric)	Hour	HIR-00066	133.20	HIR-00200	207.30	LAB-00372	368.20	708.70
67	Hydraulic Truck Crane 30T	Hour	HIR-00068	3090.40	HIR-00202	2035.30	LAB-00373	736.30	5862.00
68	Hydraulic Truck Crane 16T	Hour	HIR-00069	2184.70	HIR-00203	1800.00	LAB-00374	736.30	4721.00
69	Heavy Duty Airless Spray Painting Equipment	Hour	HIR-00070	118.60	HIR-00204				118.60
70	Concrete Placer Pump (25 cum/hr) (Electric) / 30 Cum	Hour	HIR-00071	909.80	HIR-00205	507.60	LAB-00375	230.10	1647.50
71	Tractor with 2T roller	Hour	HIR-00067	390.00	HIR-00201				390.00