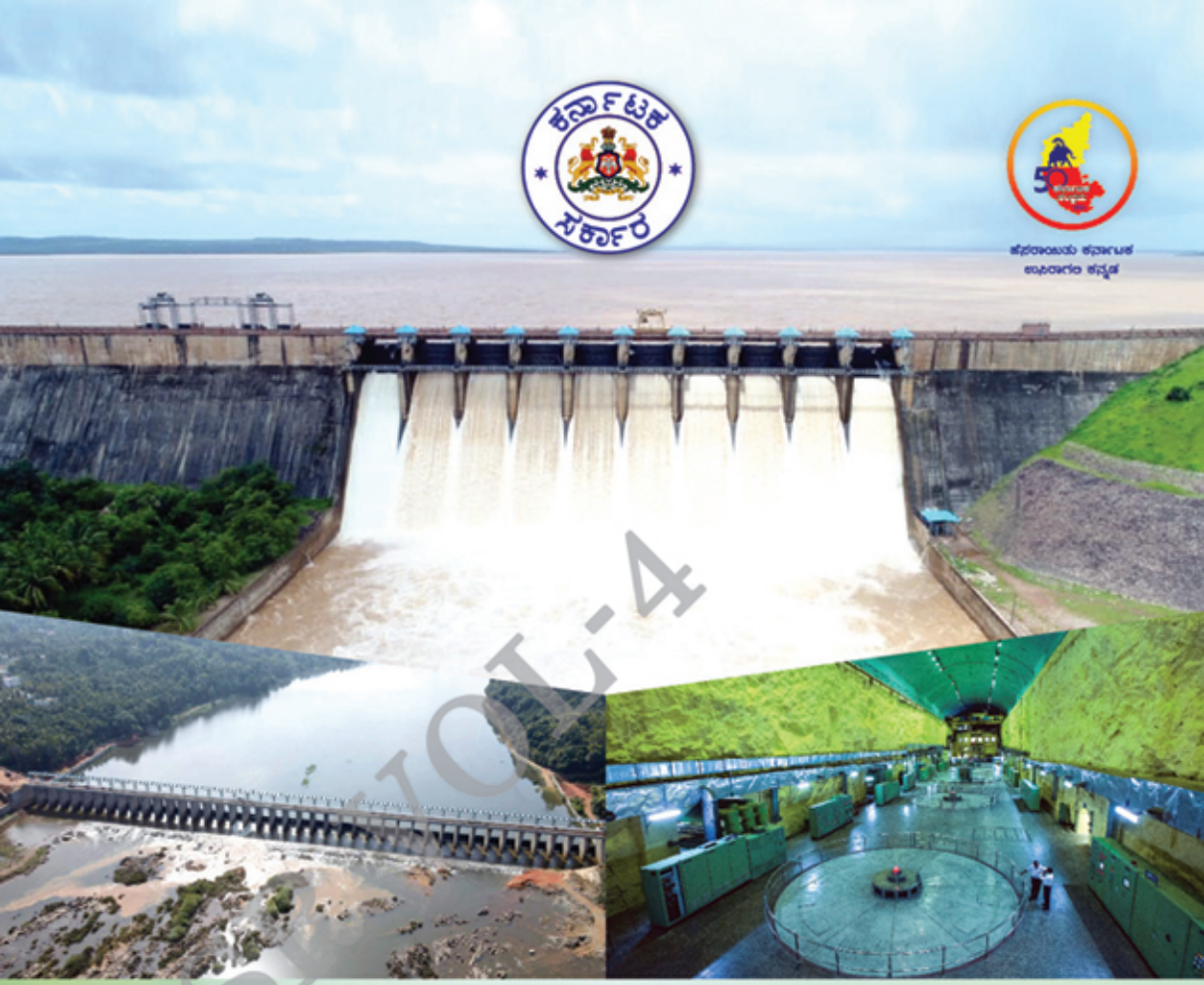

ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ
ಸಣ್ಣ ನೀರಾವರಿ ಮತ್ತು ಅಂತರ್ಜಲ ಅಭಿವೃದ್ಧಿ ಇಲಾಖೆ
ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಿಗಮ ನಿಯಮಿತ

ಏಕರೂಪ ದರಪಟ್ಟಿ 2023–24

ಸಂಪುಟ 4

Water Resources Department
Minor Irrigation & Ground Water Development Department
Karnataka Power Corporation Limited

Common Schedule of Rates 2023-2024

VOLUME 4

GOVERNMENT OF KARNATAKA

WATER RESOURCES DEPARTMENT

MINOR IRRIGATION &

GROUND WATER DEVELOPMENT DEPARTMENT

KARNATAKA POWER CORPORATION LIMITED

UNIFORM COMMON SCHEDULE OF RATES 2023-24

VOLUME - 4

Tribute

M. Visvesvaraya

1861 - 1962

Sayings of Sir M.Visvesvaraya

- *It is better to Work out than Rust out.*
- *Work performed with higher knowledge or skill, capacity or ambitions, usually brings a correspondingly higher reward.*
- *An Engineer is a person who applies the skills and Knowledge of basic Science for the good of society.*
- *Hard work performed in a disciplined manner will in most cases keep the worker fit and also prolong his life.*

ಡಾ: ಎಸ್. ಸೆಲ್ವಕುಮಾರ್, ಭಾ.ಆ.ಸೇ.,
ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ,
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ.

Dr. S. Selvakumar, I.A.S.,
Principal Secretary to
Government,
Public Works Department

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ,
ಕೊಠಡಿ ಸಂಖ್ಯೆ: 335–336, 3ನೇ ಮಹಡಿ,
ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು–560001.

Karnataka Government Secretariat
Room No. 335-336, 3rd Floor, Vikasa Soudha,
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ದಿನಾಂಕ 15-11-2023

ಸಂದೇಶ

2021-22ನೇ ಸಾಲಿನಲ್ಲಿ ರಾಜ್ಯದ ವಿವಿಧ ಇಲಾಖೆಗಳ ದರಪಟ್ಟಿಗಳನ್ನು ಅಧ್ಯಯನ ಮಾಡಿ 8 ಸಂಪುಟಗಳನ್ನಾಗಿ ಒಗ್ಗೂಡಿಸಿ ರಾಜ್ಯವ್ಯಾಪಿ ಅನ್ವಯವಾಗುವಂತೆ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ನೇತೃತ್ವದಲ್ಲಿ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ಪ್ರಕಟಿಸಲಾಗಿತ್ತು. ಈ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ಪರಿಷ್ಕರಿಸಿ 2023-24ನೇ ಸಾಲಿಗೆ ಪ್ರಕಟಿಸಲು ನಿರ್ಧರಿಸಿ ಈ ಕಾರ್ಯವನ್ನು ಇಲಾಖೆ ನಿವೃತ್ತ ಅಧಿಕಾರಿಗಳನ್ನು ಒಳಗೊಂಡ "**ತಾಂತ್ರಿಕ ಕಾರ್ಯ ನಿರತ ತಂಡ**"ವನ್ನು ಪುನರ್ ರಚಿಸಿ ವಹಿಸಲಾಯಿತು.

ಈ ತಂಡದ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಎಲ್ಲ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆಗಳು ಒಟ್ಟಾರೆ ಸಮಾಲೋಚಿಸಿ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ನೀರಾವರಿ ಇಲಾಖೆ, ಇಂಧನ ಇಲಾಖೆ, ಬಿಡಬ್ಲ್ಯುಎಸ್ಎಸ್‌ಬಿ, ಕೆಯುಡಬ್ಲ್ಯುಎಸ್ಎಸ್‌ಬಿ, ಗ್ರಾಮೀಣ ನೀರು ಸರಬರಾಜು ಇಲಾಖೆಗಳ ಒಟ್ಟು 6 ಸಂಪುಟಗಳ ಸಂಪುಟ-I, II, III IV, V ಮತ್ತು VIರ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ತಯಾರಿಸಿದ್ದು, ಈ ದರಪಟ್ಟಿಗಳನ್ನು ಸರ್ಕಾರವು ದಿನಾಂಕ 15-11-2023ರಿಂದ ಅನ್ವಯವಾಗುವಂತೆ ಅಂಗೀಕರಿಸಿ ಆದೇಶ ಹೊರಡಿಸಿದೆ. ಹಾಗೂ ಎಲ್ಲ ದರಪಟ್ಟಿಗಳ ಸಂಪುಟಗಳನ್ನು ಸಾರ್ವಜನಿಕರಿಗೆ ಲಭ್ಯವಾಗುವಂತೆ ಇಲಾಖೆಯ ಅಂತರ್‌ಜಾಲದಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ ಈ ಕಾರ್ಯವನ್ನು ಯಶಸ್ವಿಯಾಗಿ ಪೂರ್ಣಗೊಳಿಸಿದ ತಾಂತ್ರಿಕ ಕಾರ್ಯಪಡೆಯ ಸದಸ್ಯರು ಮತ್ತು ಎಲ್ಲ ಇಲಾಖೆಗಳ ಅಧಿಕಾರಿಗಳಿಗೆ ಅಭಿನಂದನೆಗಳು.

ಈ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ಮುಂದಿನ ವರ್ಷಗಳಲ್ಲಿ ಇನ್ನೂ ಉತ್ತಮಪಡಿಸಲು ಸಂಬಂಧಪಟ್ಟ ಎಲ್ಲ ಬಳಕೆದಾರರು ತಮ್ಮ ಸಲಹೆಗಳು/ಅಭಿಪ್ರಾಯವನ್ನು ಮುಕ್ತವಾಗಿ ಹಂಚಿಕೊಳ್ಳಲು ಕೋರುತ್ತೇನೆ.

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನಡವಳಿಗಳು

ವಿಷಯ: 2023-24ನೇ ಸಾಲಿನ ಏಕರೂಪ ಅನುಸೂಚಿ ದರಪಟ್ಟಿಗಳನ್ನು ಪರಿಷ್ಕರಿಸಿ ತಯಾರಿಸಲು ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡವನ್ನು (Technical Working Group) ಪುನರ್ ರಚಿಸುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ 1. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಲೋಇ 65 ಆರ್‌ಡಿಎಫ್ 2018, ದಿನಾಂಕ: 04.04.2019.

2. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಆಇ 259 ಆಕೋ-2/2018, ದಿನಾಂಕ: 17.02.2020.

3. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಲೋಇ 51 ಆರ್‌ಡಿಎಫ್ 2019,ಬೆಂಗಳೂರು, ದಿನಾಂಕ:18.03.2022, 25-03-2022 ಮತ್ತು 31-03-2022.

ಪ್ರಸ್ತಾವನೆ:

ಮೇಲೆ (1)ರಲ್ಲಿ ಒದಲಾದ ಸರ್ಕಾರದ ಆದೇಶದಲ್ಲಿ ಅನುಸೂಚಿ ದರಗಳ ರಚನಾ ಸಮಿತಿಯಿ ತಯಾರಿಸುವ 2019-20ನೇ ಸಾಲಿನ ಏಕ ರೂಪ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಶೀಲಿಸಲು "**ಅನುಸೂಚಿ ದರಗಳ ಪರಿಶೀಲನಾ ಸಮಿತಿ**"ಯನ್ನು ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ಇವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ವಿವಿಧ ಇಲಾಖೆಗಳ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು / ಕಾರ್ಯದರ್ಶಿಗಳ ಸದಸ್ಯರುಗಳನ್ನು ಒಳಗೊಂಡು ಸೃಜಿಸಲಾಗಿರುತ್ತದೆ. ಈ ಸಮಿತಿಯು ಏಕರೂಪ ದರಪಟ್ಟಿಯ ರಚನಾ ಸಮಿತಿಯು ತಯಾರಿಸುವ ದರಪಟ್ಟಿಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಜಾರಿಗೊಳಿಸಲು ಕ್ರಮವಹಿಸಲು ಆರ್ಥಿಕ ಇಲಾಕೆಯ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ ಆಇ 259 ಆಕೋ-2/2018, ದಿನಾಂಕ:14.03.2019ರನ್ವಯ ಆದೇಶ ಹೊರಡಿಸಲಾಗಿರುತ್ತದೆ.

ಮೇಲೆ (2)ರಲ್ಲಿ ಒದಲಾದ ಸರ್ಕಾರದ ಆದೇಶದಲ್ಲಿಏಕರೂಪ ಅನುಸೂಚಿ ದರಗಳನ್ನು ತಯಾರಿಸಲು "**ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡ** " (**Technical Working Group**) ರಚಿಸಿ ವಿವಿಧ ಇಲಾಖೆಗಳೊಂದಿಗೆ ಸಭೆಯನ್ನು ನಡೆಸಿ ಮಾರ್ಚ್-2020ರ ಮಾಹೆಯೊಳಗೆ ಏಕರೂಪ ದರಪಟ್ಟಿಯನ್ನು ಸರ್ಕಾರಕ್ಕೆ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸುವಂತೆ ಆದೇಶ ಹೊರಡಿಸಲಾಗಿರುತ್ತದೆ.

ಮೇಲೆ (3)ರಲ್ಲಿ ಒದಲಾದ ಸರ್ಕಾರದ ಆದೇಶಗಳಲ್ಲಿ ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ವಿವಿಧ ಇಲಾಖೆಗಳು ತಯಾರಿಸಿರುವ ಕೆಳಕಂಡ 2021-22ನೇ ಸಾಲಿನ ಅನುಸೂಚಿತ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಸಂಪುಟಗಳನ್ನು ಮುಂದಿನ ಆದೇಶದವರೆಗೆ ಜಾರಿಗೆ ತರಲಾಗಿದೆ.

ಕ್ರ.ಸಂ	ಇಲಾಖೆಗಳು	ನೋಡಲ್ ಇಲಾಖೆಗಳು	ಏಕರೂಪ ದರಪಟ್ಟಿಯ ಸಂಪುಟ ಸಂಖ್ಯೆ
1	PWD, & PRED(Including Buildings*)	PWD	I, II & III
2	WRDO, MI & KPCL	WRDO	IV
3	BWSSB /KUWS&DB /RWS	BWSSB	V
4	KPTCL, ESCOMS, PWD ELECTRICAL	BESCOM	VI
5	PORTS & IWTD	PORTS	VII
6	FOREST, WATERSHED & HORTICULTURE	FOREST	VIII

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಆಇ 259 ಆಕೋ-/2018, ದಿನಾಂಕ:17.02.2020. ಆದೇಶದಂತೆ ಹಾಗೂ ಉಲ್ಲೇಖ(3)ರಲ್ಲಿ ಈಗಾಗಲೇ ಪ್ರಕಟಿಸಿರುವ **2021-22ನೇ**

ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಸಂಪುಟಗಳನ್ನು ಪರಿಷ್ಕರಿಸಿ **2023-24ನೇ** ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ತಯಾರಿಸಲು ಕ್ರಮ ವಹಿಸಬೇಕಾಗಿರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಈ ಕೆಳಕಂಡಂತೆ ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡವನ್ನು (Technical Working Group) ಪುನರ್ ರಚಿಸಲು ನಿರ್ಧರಿಸಲಾಗಿದೆ.

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಲೋಇ 86 ಆರ್‌ಡಿಎಫ್ 2022, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 13.02.2023

ಪ್ರಸ್ತಾವನೆಯಲ್ಲಿ ವಿವರಿಸಲಾದ ಅಂಶಗಳ ಹಿನ್ನೆಲೆಯಲ್ಲಿ, **2023-24ನೇ** ಸಾಲಿನ ರಾಜ್ಯವ್ಯಾಪಿ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-I ರಿಂದ VIII ಪರಿಷ್ಕರಿಸಲು ಈ ಕೆಳಕಂಡ ಸದಸ್ಯರುಗಳನ್ನೊಳಗೊಂಡಂತೆ ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡವನ್ನು (Technical Working Group) ಪುನರ್ ರಚಿಸಿ ಆದೇಶಿಸಿದೆ.

ಕ್ರ. ಸಂ	**ಶ್ರೀಯುತ/ಅಧಿಕಾರಿಗಳು**	
1.	ಆರ್. ಜೈಪ್ರಸಾದ್, ನಿವೃತ್ತ ಪ್ರಧಾನ ಇಂಜನಿಯರ್	ಅಧ್ಯಕ್ಷರು
2.	ಬಿ. ಗುರುಪ್ರಸಾದ್, ನಿವೃತ್ತ ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ ಮತ್ತು ಪ್ರಧಾನ ಇಂಜನಿಯರ್, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ	ಸದಸ್ಯರು
3.	ಕೆ. ಮೋಹನ್ ನಿವೃತ್ತ ಮುಖ್ಯ ಇಂಜನಿಯರ್, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ.	ಸದಸ್ಯರು
4.	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಗ್ರಾಮೀಣ ನೀರು ಸರಬರಾಜು ಇಲಾಖೆ, ಕಾವೇರಿ ಭವನ, ಕೆಜಿ ರಸ್ತೆ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
5.	ರಮೇಶ್ ಹೆಚ್.ಜಿ. ಜನರಲ್ ಮ್ಯಾನೇಜರ್, Quality Standard and Safety, BESCOM , ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
6.	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಬೆಂಗಳೂರು ನಗರ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ	ಸದಸ್ಯರು
7.	ರವಿಕುಮಾರ, ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್ (ನಿವೃತ್ತ) ಗ್ರಾಮೀಣಾಬಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ ಇಲಾಖೆ	ಸದಸ್ಯರು
8.	ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್, ಬೆಂಗಳೂರು ವೃತ್ತ, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ ಇಲಾಖೆ	ಸದಸ್ಯರು
9.	ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್, ಬೆಂಗಳೂರು ವೃತ್ತ, ಸಣ್ಣ ನೀರಾವರಿ ಇಲಾಖೆ, ಜಯನಗರ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
10.	ತಾರಾನಾಥ್ ಎಸ್. ರಾಥೋಡ್, ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ ಜಲ ಸಾರಿಗೆ ಮಂಡಳಿ, ಕಾರವಾರ	ಸದಸ್ಯರು
11.	ರಾಜೇಶ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ (ವಿದ್ಯುತ್ ವಿಭಾಗ) ಲೋಇ ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
12.	ಶ್ರೀಮತಿ ಪವಿತ್ರ, ಉಪ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ ಕೆಯುಡಬ್ಲ್ಯುಎಸ್‌ಎಸ್‌ಬಿ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು

ಕ್ರ. ಸಂ	ಶ್ರೀಯುತ/ಅಧಿಕಾರಿಗಳು	
13.	ಕೃಷ್ಣರಾವ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ಕೆಇಆರ್ಎಸ್, ಮೈಸೂರು	ಸದಸ್ಯರು
14.	ಶ್ರೀನಿವಾಸ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ಎಂ & ಇ ವಿಭಾಗ, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
15.	ಕೆ.ವಿ. ಗೋಪಾಲಕೃಷ್ಣ, ನಿವೃತ್ತ ಕಾರ್ಯಪಾಲಕ ಇಂಜನಿಯರ್, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ	ಸದಸ್ಯರು
16.	ಎನ್. ಬಿ. ಅನ್ವರ್ ಪಾಷ, ನಿವೃತ್ತ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್,	ಸದಸ್ಯರು
17.	ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, ಅರಣ್ಯ ಇಲಾಖೆ.	ಸದಸ್ಯರು
18.	ಶ್ರೀಮತಿ ದಿವ್ಯ, ಸಹಾಯಕ ನಿರ್ದೇಶಕರು, ತೋಟಗಾರಿಗೆ ಇಲಾಖೆ	ಸದಸ್ಯರು
19.	ಅಧಿಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಕೋಪಯೋಗಿ ವೃತ್ತ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿ/ ಸಮನ್ವಯಾಧಿಕಾರಿ

i) ಈ ತಂಡವು ವಿವಿಧ ಇಲಾಖೆಗಳ ಸದಸ್ಯರೊಂದಿಗೆ ಸಭೆಯನ್ನು ನಡೆಸಿ ಏಪ್ರಿಲ್-2023ರ ಅಂತ್ಯದೊಳಗೆ ವಿವಿಧ ಇಲಾಖೆಗಳ ಏಕರೂಪ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಷ್ಕರಿಸಿ ಸಲ್ಲಿಸುವುದು.

ii) ವಿವಿಧ ಇಲಾಖೆಗಳ ಸದಸ್ಯರು ಏಕರೂಪ ದರಪಟ್ಟಿಯ ತಯಾರಿಕೆ, ವಿಶಿಷ್ಟ ವಿವರಣೆ ಹಾಗೂ ಡೇಟಾ ವಿಶ್ಲೇಷನೆ ಮುಂತಾದ ವಿವರಗಳನ್ನು ತಾಂತ್ರಿಕ ತಂಡದೊಂದಿಗೆ ಚರ್ಚಿಸಿ ಅಂತಿಮಗೊಳಿಸುವುದು ಹಾಗೂ ಪರಿಷ್ಕರಿಸಿದ ಕರಡು ಏಕರೂಪ ದರಪಟ್ಟಗಳಿಗೆ ಆಯಾ ಇಲಾಖೆಯ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದ ಅನುಮೋದನೆ ಪಡೆದು ಸಲ್ಲಿಸುವುದು.

iii) ಮೇಲ್ಕಂಡ ತಂಡದ ಅಧಿಕಾರೇತರ ಸದಸ್ಯರುಗಳಿಗೆ ಸೇವಾ ಶುಲ್ಕವನ್ನು ನೀಡುವ ಕುರಿತಂತೆ ಸಮನ್ವಯಾಧಿಕಾರಿಯಾಗಿರುವ ಅಧೀಕ್ಷಕ ಇಂಜನಿಯರ್, ಲೋಕೋಪಯೋಗಿ ವೃತ್ತ, ಬೆಂಗಳೂರು ಇವರು ಕ್ರಮ ವಹಿಸುವುದು.

iv) ಈ ಕಾರ್ಯವನ್ನು ನಿರ್ವಹಿಸಲು ಅಗತ್ಯವಿರುವ ಕಛೇರಿಯ ಸ್ಥಳಾವಕಾಶವನ್ನು ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ) ಕಛೇರಿಯ 3ನೇ ಮಹಡಿಯಲ್ಲಿ ಸಭಾಂಗಣ ಮತ್ತು ಪೀಠೋಪಕರಣ, ಲೇಖನ ಸಾಮಗ್ರಿಗಳು ಹಾಗೂ ಇತರೆ ಅಗತ್ಯ ಸೌಕರ್ಯಗಳನ್ನು ಒದಗಿಸುವುದು.

v) ಈ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಪರಿಷ್ಕರಣೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗಳ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್/ ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್‌ಗಳು ಸೂಕ್ತ ಸಲಹೆ ಮತ್ತು ಅಭಿಪ್ರಾಯಗಳನ್ನು ಕಾರ್ಯ ನಿರತ ತಂಡದ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸುವುದು.

vi) ತಾಂತ್ರಿಕ ಕಾರ್ಯ ನಿರತ ತಂಡವು 2023-24ನೇ ಸಾಲಿನ ಎಲ್ಲ ಸಂಪುಟಗಳ ಪರಿಷ್ಕರಣೆಯನ್ನು **ಏಪ್ರಿಲ್-23ರ** ಅಂತ್ಯದೊಳಗೆ ಪೂರ್ಣಗೊಳಿಸಿ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಸಲ್ಲಿಸುವುದು.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ
ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

13/02/2023

(ಕೆ.ಎಸ್. ಹರೀಶ್)
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ (ನಬಾರ್ಡ್)

ಇವರಿಗೆ:

1. ಮಹಾಲೇಖಪಾಲರು, (ಲೆಕ್ಕ ಪರೀಕ್ಷೆ-II), ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು.
2. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
3. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ.
4. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಇಂಧನ ಇಲಾಖೆ, ಬೆಂಗಳೂರು
5. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ನಗರಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
6. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿ, ಅರಣ್ಯ, ಪರಿಸರ ಮತ್ತು ಜೀವಿಶಾಸ್ತ್ರ, ಇಲಾಖೆ, ಬೆಂಗಳೂರು. ಬಹುಮಹಡಿ ಕಟ್ಟಡಗಳು, ಬೆಂಗಳೂರು
7. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿ, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ ಇಲಾಖೆ, ಬಹುಮಹಡಿ ಕಟ್ಟಡಗಳು, ಬೆಂಗಳೂರು
8. ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ, ವಸತಿ ಇಲಾಖೆ.
9. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ (ವೆಚ್ಚ), ಬೆಂಗಳೂರು.
10. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ಬೆಂಗಳೂರು
11. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಸಣ್ಣನೀರಾವರಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
12. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಬೆಸ್ಕಾಂ, ಬೆಂಗಳೂರು
13. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಪಿಟಿಸಿಎಲ್, ಬೆಂಗಳೂರು
14. ಮುಖ್ಯ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, ಅರಣ್ಯ ಭವನ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು
15. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ), (ಉತ್ತರ), (ಈಶಾನ್ಯ) ಮತ್ತು ಕೇಂದ್ರ ವಲಯಗಳು, ಬೆಂಗಳೂರು, ಧಾರವಾಡ, ಕಲಬುರಗಿ, ಶಿವಮೊಗ್ಗ.
16. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್‌ಗಳು, ಇತರೆ ಇಲಾಖೆಗಳು.
17. ಎಲ್ಲಾ ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್‌ಗಳು, ಲೋಇ ಮತ್ತು ಇತರೆ ಇಲಾಖೆಗಳು.
18. ಎಲ್ಲಾ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್‌ಗಳು, ಲೋಇ ಮತ್ತು ಇತರೆ ಇಲಾಖೆಗಳು.

ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ.

1. ಶ್ರೀ ಆರ್. ಜೈಪ್ರಸಾದ್, ನಿವೃತ್ತ ಪ್ರಧಾನ ಇಂಜಿನಿಯರ್,
2. ಶ್ರೀ. ಬಿ. ಗುರುಪ್ರಸಾದ್, ನಿವೃತ್ತ ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ ಮತ್ತು ಪ್ರಧಾನ ಇಂಜನಿಯರ್,
3. ಕಾರ್ಯ ನಿರತ ತಂಡದ ಎಲ್ಲ ಸದಸ್ಯರು

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ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನಡವಳಿಗಳು

ವಿಷಯ:- 2023-24ನೇ ಸಾಲಿನ ಏಕರೂಪ ಅನುಸೂಚಿತ ದರಪಟ್ಟಿಯ ಪ್ರಕಟಣೆ

ಓದಲಾಗಿದೆ. –
1. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಪಿಡಬ್ಲ್ಯುಡಿ 65 ಆರ್‌ಡಿಎಫ್ 2018 ದಿನಾಂಕ 04-04-2019.
2. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಪಿಡಬ್ಲ್ಯುಡಿ 86 ಆರ್‌ಡಿಎಫ್ 2022 ದಿನಾಂಕ 13.02.2023.
3. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ), ಬೆಂಗಳೂರು ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ :ಮುಇಂಸಂಕದ:ಸಾಕೋ:ಸಇ-2: 2023-24 ದಿನಾಂಕ:15-11-2023.
4. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ ಇವರ ಪತ್ರ ಮುಇಂ/ಜಸಂಇ/ಉ ಮತ್ತು ಮೌ ಘಟಕ/ದಪ/2023-24 203 ದಿನಾಂಕ 20-09-2023.
5. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ (ವಿನ್ಯಾಸ ಮತ್ತು ಗುಣ ಆಶ್ವಾಸನೆ) ಬಿಡಬ್ಲ್ಯುಎಸ್‌ಎಸ್‌ಬಿ ಇವರ ಪತ್ರ No. BWSSB/CE (D & QA)/ACE (D)/TA/970/2023-24 dated 20-09-2023.
6. ಬೆಸ್ಕಾಂ ಪತ್ರ ಸಂಖ್ಯೆ ಬೆವಿಕಂ/ಪ್ರ.ವ್ಯ/ಗು, ಪ್ರ ಮತ್ತು ಸು/ಉಪ್ರವ್ಯ-4/ಸ.ಪ್ರ.ವ್ಯ-5/ಡಿಸಿ-35/2023-24/821-22 ದಿನಾಂಕ 12-07-2023.

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ಪೀಠಿಕೆ:-

ರಾಜ್ಯದ ಪ್ರಮುಖ ಇಲಾಖೆಗಳಾದ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ನಗರಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ವಸತಿ ಇಲಾಖೆ, ಇಂಧನ ಇಲಾಖೆಗಳ 2021-22ನೇ ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-1,2,3,4,5,6,7 ಮತ್ತು 8ರ ಸಂಪುಟಗಳ ಅನುಸೂಚಿ ದರಗಳನ್ನು (Schedule of Rates) ಮೇಲೆ ಓದಲಾದ ಕ್ರ.ಸಂ-1ರ ಆದೇಶದಂತೆ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯನ್ನು ನೋಡಲ್ ಇಲಾಖೆಯನ್ನಾಗಿ ನೇಮಿಸಿದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ 2021-22ನೇ ಸಾಲಿನಲ್ಲಿ ಜಾರಿಗೆ ತಂದು ಪ್ರಕಟಿಸಲಾಗಿತ್ತು. ಈ ಎಲ್ಲ ಸಂಪುಟಗಳನ್ನು 2023-24ನೇ ಸಾಲಿನಲ್ಲಿ ಪರಿಷ್ಕರಿಸಲು ನಿರ್ಧರಿಸಿದ್ದು, ಅದರಂತೆ ಈ ಕಾರ್ಯವನ್ನು ಮೇಲೆ ಓದಲಾದ ಕ್ರ.ಸಂ-2 ಸರ್ಕಾರದ ಆದೇಶದನ್ವಯ ಶ್ರೀ.ಆರ್.ಜೈಪ್ರಸಾದ್, ನಿವೃತ್ತ ಪ್ರಧಾನ ಇಂಜಿನಿಯರ್, ಇವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ವಿವಿಧ ಇಲಾಖೆಗಳ ನಿವೃತ್ತ ಹಾಗೂ ಅಧಿಕಾರಿಗಳನ್ನು ಒಳಗೊಂಡಂತೆ ಪುನರ್ ರಚಿಸಲಾದ ತಾಂತ್ರಿಕ ಕಾರ್ಯ ಪಡೆ (Technical Working Group)ಗೆ ವಹಿಸಲಾಯಿತು. ಸದರಿ ತಂಡವು 2021-22ನೇ ಸಾಲಿನಲ್ಲಿ ಪ್ರಕಟಿಸಲಾದ ಏಕರೂಪ ಅನುಸೂಚಿ ಸಂಪುಟ-1ರಿಂದ 6ರನ್ನು

ಪುನರ್ ಅಧ್ಯಯನ ಮಾಡಿ, ಆಯಾ ಇಲಾಖೆಯ ಅಧಿಕಾರಿಗಳೊಂದಿಗೆ ಅನೇಕ ಸಭೆಗಳನ್ನು ನಡೆಸಿದ್ದು 2023-24ನೇ ಸಾಲಿನ ಕರಡು ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಸಂಪುಟಗಳು 1ರಿಂದ 6ನ್ನು ಸಿದ್ಧಪಡಿಸಿ, ಸರ್ಕಾರದ ಅನುಮೋದನೆಗೆ ಶಿಫಾರಸ್ಸು ಮಾಡಿರುತ್ತದೆ.

SR's OF ORGANIZATIONS CONCERNED	NODAL ORGANIZATION	2023-24 UNI SR Volume
PWD (C&B), PRED	PWD	I, II & III
WRDO, MI & KPCL	WRDO	IV
BWSSB , KUWSDB & RWS	BWSSB	V
KPTCL, ESCOMS, PWD ELECTRICAL	BESCOM	VI
PORTS & IWTD & Airports	PORTS	Not updated/revised by the TWG for 2022-23
FOREST, WATERSHED, HORTICULTURE	FOREST	

ಈ ದರಪಟ್ಟಿಗಳಲ್ಲಿ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳಲಾಗಿದೆ.

- ನಿರ್ಮಾಣ ಸಾಮಗ್ರಿಗಳ ದರಗಳನ್ನು ಎಲ್ಲ ಇಲಾಖೆಗಳಿಗೆ ಅನ್ವಯವಾಗುವಂತೆ ಏಕರೂಪ ದರಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿದೆ.
- 2022-23ನೇ ಸಾಲಿನಲ್ಲಿ ಕಾರ್ಮಿಕ ಇಲಾಖೆಯು ಪ್ರಕಟಿಸಿರುವಂತೆ ಕೂಲಿ ಕಾರ್ಮಿಕರ ದರಗಳನ್ನು (Zone-II rates) ಕನಿಷ್ಟ ದರಗಳನ್ನು ಸಹ ಏಕರೂಪ ದರಪಟ್ಟಿಯಲ್ಲಿ ಅವಳಡಿಸಲಾಗಿದೆ.
- ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ ವಲಯದ 2022ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಯಂತೆ ಯಂತ್ರೋಪಕರಣಗಳ ಬಾಡಿಗೆ ದರಗಳನ್ನು ಏಕರೂಪ ದರಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಲಾಗಿದೆ.
- ಗುತ್ತಿಗೆದಾರರ ಲಾಭಾಂಶವನ್ನು ಗರಿಷ್ಟ ಶೇ10% ಪ್ರತಿಶತ ಅಥವಾ ಆಯಾ ಇಲಾಖೆಗಳು ನಿಗಧಿಪಡಿಸಿರುವ ಇವುಗಳಲ್ಲಿ ಯಾವುದು ಕಡಿಮೆಯೋ ಅದನ್ನು ಏಕರೂಪ ದರಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಲಾಗಿದೆ.
- Overhead charges ದರಗಳನ್ನು ಗರಿಷ್ಟ ಶೇ10% ಪ್ರತಿಶತ ಏಕರೂಪ ದರಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಲಾಗಿದೆ.
- Area specific loading ಎಲ್ಲ ಇಲಾಖೆಗಳ ಕಾಮಗಾರಿಗಳಿಗೆ ಅನ್ವಯವಾಗುವಂತೆ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-1ರಲ್ಲಿ ಅಳವಡಿಸಲಾಗಿದೆ.

- Earth work, Cement concrete items with shuttering and surveying ಐಟಂಗಳನ್ನು ಸಹ ಈ ದರಪಟ್ಟಿಯಲ್ಲಿ ಎಲ್ಲ ಇಲಾಖೆಗಳಿಗೆ ಅನ್ವಯವಾಗುವಂತೆ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-1ರಲ್ಲಿ ಅಳವಡಿಸಿರುತ್ತದೆ.
- ಇತರೆ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆಗಳು ತಮ್ಮ ಕಾರ್ಯಕ್ಷೇತ್ರಕ್ಕೆ ಅವಶ್ಯವಿರುವಂತಹ specific construction materials and itemsಗಳನ್ನು ತಮ್ಮ ದರಪಟ್ಟಿಯಲ್ಲಿ ಪ್ರತ್ಯೇಕವಾಗಿ ಅಳವಡಿಸಿಕೊಂಡಿರುತ್ತವೆ.

ಮೇಲಿನ ಅಂಶಗಳನ್ನು ಪರಿಗಣಿಸಿ ವಿವಿಧ ಇಲಾಖೆಗಳ ತಂಡಗಳು 2023-24ನೇ ಸಾಲಿನ ಏಕರೂಪ ಅನುಸೂಚಿ ದರಗಳನ್ನು ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದ ಮಾರ್ಗದರ್ಶನದಂತೆ 2022-23ನೇ ಸಾಲಿನ ಏಕರೂಪ ಅನುಸೂಚಿತ ದರಗಳನ್ನು ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

ಅಂತಿಮಗೊಳಿಸಿದ 2023-24ನೇ ಸಾಲಿನ ಕರಡು ಏಕರೂಪ ಅನುಸೂಚಿತ ದರಪಟ್ಟಿ ಸಂಪುಟ-I, II, III, IV, V & VIಅನ್ನು ಮೇಲೆ ಓದಲಾದ ಕ್ರ.ಸಂ-3ರಿಂದ 6ರಲ್ಲಿ ಸರ್ಕಾರದಿಂದ ಅನುಮೋದನೆ ದೊರಕಿಸಿಕೊಡಲು ನೋಡಲ್ ಇಲಾಖೆಗಳು ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದ ಮೂಲಕ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಿಸಿರುತ್ತದೆ.

ಈ ಎಲ್ಲ ಕರಡು ಏಕರೂಪ ಅನುಸೂಚಿ ದರಪಟ್ಟಿಗಳ ಬಗ್ಗೆ ದಿನಾಂಕ:07-11-2023 ರಂದು ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ಇವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ನಡೆದ ಏಕರೂಪ ದರಗಳ ಪರಿಶೀಲನಾ ಸಮಿತಿಯಲ್ಲಿ ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗಳು ಮತ್ತು ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದೊಂದಿಗೆ ಚರ್ಚಿಸಿದ್ದು, ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ವಿವಿಧ ಇಲಾಖೆಗಳು ಅಂತಿಮಗೊಳಿಸಿರುವ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟಗಳು-1 ರಿಂದ 6 ಅನ್ನು ಅಂಗೀಕರಿಸಿ ಜಾರಿಗೆ ತರಲು ನಿರ್ಧರಿಸಲಾಗಿದ್ದು, ಅದರಂತೆ ಕೆಳಕಂಡಂತೆ ಆದೇಶಿಸಲಾಗಿದೆ.

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಲೋಇ 86 ಆರ್‌ಡಿಎಫ್ 2022, ಬೆಂಗಳೂರು ದಿನಾಂಕ:15-11-2023

ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡದ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ನೋಡಲ್ ಇಲಾಖೆಗಳು ತಯಾರಿಸಿರುವ ಕೆಳಕಂಡ 2023-24ನೇ ಸಾಲಿನ **Common Schedule of Rates Volume-I to VI** ಎಲ್ಲ ಇಲಾಖೆಗಳಿಗೆ ಅನ್ವಯವಾಗುವಂತೆ ತಕ್ಷಣದಿಂದ ಹಾಗೂ ಮುಂದಿನ ಆದೇಶದವರೆಗೆ ಜಾರಿಗೆ ತರಲಾಗಿದೆ.

UNI SRs 2023-24	2023-24 UNI SR Volume
Common material rates, labour rates, buildings and roads and bridges.	I, II & III

UNI SRs 2023-24	2023-24 UNI SR Volume
WRDO, MI & KPCL organization specific for irrigation and dam works.	IV
BWSSB , KUWSDB & RWS for water supply and sanitary works.	V
KPTCL, ESCOMS, PWD ELECTRICAL for transmission, distribution and consumption related works.	VI

ಸರ್ಕಾರದ ಎಲ್ಲಾ ಇಲಾಖೆಗಳು/ನಿಗಮ/ಮಂಡಳಿ/ ಸಂಸ್ಥೆಗಳು ತಕ್ಷಣದಿಂದಲೇ ಜಾರಿಗೆ ಬರುವಂತೆ 2023-24ನೇ ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿಯ ದರಗಳನ್ನು ಅಂದಾಜು ತಯಾರಿಕೆ, ಗುತ್ತಿಗೆ ಪ್ರಕ್ರಿಯೆ ಮತ್ತು ಅನುಷ್ಠಾನಗೊಳಿಸುವಲ್ಲಿ ಅಳವಡಿಕೊಳ್ಳತಕ್ಕದ್ದು.

ಈ ಏಕರೂಪ ಅನುಸೂಚಿತ ಎಲ್ಲ ಸಂಪುಟವನ್ನು ಆಯಾ ಇಲಾಖೆಗಳ ಅಂತರ್ಜಾಲದಲ್ಲಿ ಪ್ರಕಟಿಸುವುದು. 2023-24ನೇ ಸಾಲಿನ ಎಲ್ಲ ಸಂಪುಟಗಳನ್ನು eproc-2 ತಂತ್ರಾಂಶದಲ್ಲಿ ಕಡ್ಡಾಯವಾಗಿ ಅಳವಡಿಸಲು ನೋಡಲ್ ಇಲಾಖೆಗಳು ಕ್ರಮ ವಹಿಸುವುದು.

ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್, ಬೆಂಗಳೂರು ಮೃತ್ತ, ಬೆಂಗಳೂರು ಇವರು ಸಿಮೆಂಟ್, ಉಕ್ಕು ಮತ್ತು ಡಾಂಬರು ಬೆಲೆಗಳನ್ನು ಪ್ರತಿ ತ್ರೈಮಾಸಿಕ ಅವಧಿಗೆ ಪ್ರತಿಶತ ಶೇ.10% ಕ್ಕಿಂತ ದರ ವ್ಯತ್ಯಾಸವಾದಲ್ಲಿ ಪರಿಷ್ಕೃತ ದರಗಳನ್ನು ಧಾರವಾಡ, ಮಂಗಳೂರು ಮತ್ತು ಬಳ್ಳಾರಿ ಮೃತ್ತಗಳ ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್‌ಗಳೊಂದಿಗೆ ಸಮಾಲೋಚಿಸಿ ಪ್ರಕಟಿಸುವುದು.

ವಿದ್ಯುತ್ ಇಲಾಖೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಮುಖ್ಯ ನಿರ್ಮಾಣ ಸಾಮಗ್ರಿಗಳಾದ Aluminum, copper, Steel, Insulating material, PVC/XLPE compound, CRGO core, Transformer oil ದರಗಳು IEEMA ಪ್ರಕಾರ ಪ್ರತಿ ತ್ರೈಮಾಸಿಕ ಅವಧಿಗೆ ಪರಿಷ್ಕೃತ ದರಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.ಇದೇ ರೀತಿ ಇತರೆ ಇಲಾಖೆಗಳ ಮುಖ್ಯ ಸಾಮಗ್ರಿಗಳ ದರಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.

ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಬಿಡಬ್ಲ್ಯುಎಸ್‌ಎಸ್‌ಬಿ ಇವರು ಕೆಯುಡಬ್ಲ್ಯುಎಸ್‌ಎಸ್‌ಬಿ ಮತ್ತು ಆರ್‌ಡಿಡಬ್ಲ್ಯು ಅಂಡ್ ಎಸ್‌ಡಿ ಇಲಾಖೆಗಳೊಂದಿಗೆ ಸಮಾಲೋಚಿಸಿ ಎಲ್ಲ ರೀತಿಯ ಕೊಳವೆಗಳ (pipes) ಬೆಲೆಗಳನ್ನು ಪ್ರತಿ ತ್ರೈಮಾಸಿಕ ಅವಧಿಗೆ ಅಥವಾ ಶೇ.10ಕಿಂತ ದರ ವ್ಯತ್ಯಾಸವಾದಲ್ಲಿ ಪರಿಷ್ಕೃತ ದರಗಳನ್ನು ಪ್ರಕಟಿಸುವುದು.

ಈ ಅನುಸೂಚಿ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-IV, V VIಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಎಲ್ಲ ಸಾಧ್ಯತೆ ಮತ್ತು ಭಾದ್ಯತೆಗಳನ್ನು ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗಳು ಹೊಂದಿರುತ್ತವೆ. (WRD, MI, KPCL-Vol IV, BWSSB , KUWSDB & RWS-Vol V, Escoms, KPTCL and PWD-Vol-VI)

ಆರ್ಥಿಕ ಇಲಾಖೆಯ ಸುತ್ತೋಲೆ **ಸಂಖ್ಯೆ ಆಇ 447 ವೆಚ್ಚ-12 /2022 ದಿನಾಂಕ: 30.07.2022** ರಂತೆ ಶೇ.18% ಜಿಎಸ್‌ಟಿ ಪ್ರತಿಶತವನ್ನು ಅಂದಾಜುಪಟ್ಟಿಯಲ್ಲಿ ಪ್ರತ್ಯೇಕವಾಗಿ ನೇರ್ಪಡೆ ಮಾಡುವುದು.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ
ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

(ಡಾ.ಎಸ್. ಸೆಲ್ವಕುಮಾರ್)
ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ
ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ
ಹಾಗೂ ಅಧ್ಯಕ್ಷರು, ಅನುಸೂಚಿ
ದರಗಳ ಅಂಗೀಕಾರ ಸಮಿತಿ,

ಇವರಿಗೆ:

1. ಮಹಾಲೇಖಪಾಲರು, (ಲೆಕ್ಕ ಪರೀಕ್ಷೆ-II), ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು.
2. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
3. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ.
4. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಇಂಧನ ಇಲಾಖೆ, ಬೆಂಗಳೂರು
5. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ನಗರಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
6. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಅರಣ್ಯ, ಪರಿಸರ ಮತ್ತು ಜೀವಿಶಾಸ್ತ್ರ, ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
7. ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಗಳು, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್‌ರಾಜ್ ಇಲಾಖೆ.
8. ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಸತಿ ಇಲಾಖೆ.
9. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ (ವೆಚ್ಚ), ಬೆಂಗಳೂರು.
10. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ (ಆಯವ್ಯಯ), ಬೆಂಗಳೂರು
11. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ಬೆಂಗಳೂರು
12. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಸಣ್ಣನೀರಾವರಿ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
13. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, e-governance ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
14. ಪ್ರಧಾನ ಇಂಜಿನಿಯರ್, ರಸ್ತೆ, ಯೋಜನೆ ಮತ್ತು ಆಸ್ತಿ ನಿರ್ವಹಣೆ ಕೇಂದ್ರ,(PRAMC), ಬೆಂಗಳೂರು- 6-ಸಂಪುಟಗಳನ್ನು ((**PORTS & IWTD & Airports), (FOREST, WATERSHED, HORTICULTURE) ಹೊರತುಪಡಿಸಿ)** ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ಅಂತರ್ಜಾಲದಲ್ಲಿ ಪ್ರಕಟಿಸುವುದು.
15. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಸಂಪರ್ಕ ಮತ್ತು ಕಟ್ಟಡಗಳು (ದಕ್ಷಿಣ), (ಉತ್ತರ), (ಈಶಾನ್ಯ) ಮತ್ತು ಕೇಂದ್ರ ವಲಯಗಳು, ಬೆಂಗಳೂರು, ಧಾರವಾಡ, ಕಲಬುರಗಿ, ಶಿವಮೊಗ್ಗ.
16. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್‌ಗಳು, ಇತರೆ ಇಲಾಖೆಗಳು.
17. ಎಲ್ಲಾ ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್‌ಗಳು, ಲೋಇ ಮತ್ತು ಇತರೆ ಇಲಾಖೆಗಳು.
18. ಎಲ್ಲಾ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್‌ಗಳು, ಲೋಇ ಮತ್ತು ಇತರೆ ಇಲಾಖೆಗಳು.

ಮುನ್ನುಡಿ

ಸರ್ಕಾರದ ಆರ್ಥಿಕ ಇಲಾಖೆಯು ತನ್ನ ಆದೇಶ ಸಂಖ್ಯೆ ಆಇ 259 ಆಕೋ–2 2018 ದಿನಾಂಕ: 17–02–2020 ರಂದು ರಾಜ್ಯದ ಪ್ರಮುಖ ಇಲಾಖೆಗಳಾದ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ನಗರಾಭಿವೃದ್ಧಿ, ವಸತಿ, ಇಂಧನ ಮುಂತಾದ ಇಲಾಖೆಗಳು ತಮ್ಮದೇ ಆದ ಅನುಸೂಚಿ ದರಗಳನ್ನು ತಯಾರಿಸಿದ್ದು, ವಿವಿಧ ಕಾಮಗಾರಿಗಳ ಅಂದಾಜುಗಳ ತಯಾರಿಕೆಯಲ್ಲಿ ಬೇರೆ ಬೇರೆ ಇಲಾಖೆಗಳ ದರಗಳನ್ನು ಅಳವಡಿಸಿ, ಅಂದಾಜುಗಳನ್ನು ತಯಾರಿಸಲಾಗುತ್ತಿರುವುದನ್ನು ಮತ್ತು ಜಿ.ಎಸ್.ಟಿ ನಂತರದ ದರಗಳು ಜಾರಿಯಾದ ನಂತರ ಅಂದಾಜುಗಳನ್ನು ತಯಾರಿಸಲು ಮತ್ತು ಟೆಂಡರ್ ಮೌಲ್ಯಮಾಪನ ಮಾಡುವಲ್ಲಿ ಅನೇಕ ಸಮಸ್ಯೆಗಳು ಉದ್ಭವವಾಗುತ್ತಿದ್ದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ರಾಜ್ಯದಲ್ಲಿ ಏಕರೂಪಿ ಸಮಗ್ರ ಅನುಸೂಚಿತ ದರಗಳನ್ನು ತಯಾರಿಸಿ ಪ್ರಕಟಿಸುವುದು ಸೂಕ್ತವೆಂದು ನಿರ್ಧರಿಸಿ, ಇದರನ್ವಯ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯನ್ನು ನೋಡಲ್ ಇಲಾಖೆಯನ್ನಾಗಿ ನೇಮಿಸಿ, ಎಲ್ಲಾ ಪ್ರಮುಖ ಇಲಾಖೆಗಳ ಪ್ರತಿನಿಧಿಗಳನ್ನೊಳಗೊಂಡ ಅನುಸೂಚಿ ದರಗಳ ಪರಿಶೀಲನಾ ಸಮಿತಿಯನ್ನು ಸರ್ಕಾರದ ಆದೇಶ ಲೋಇ 65 ಆರ್.ಡಿ.ಎಫ್ 2018 ದಿನಾಂಕ: 04–04–2019 ರಲ್ಲಿ ರಚಿಸಿದ್ದು ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯವರು ಅನುಸರಿಸಬೇಕಾದ ಕ್ರಮಗಳ ಬಗ್ಗೆ ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರದ ತಂಡದೊಂದಿಗೆ ಚರ್ಚಿಸಿರುತ್ತಾರೆ. ತದನಂತರ ದಿನಾಂಕ:05–02–2020 ರಂದು ಸಮಿತಿಯು ದೀರ್ಘವಾಗಿ ಚರ್ಚಿಸಿ, ಕೈಗೊಳ್ಳಬೇಕಾದ ತೀರ್ಮಾನಗಳನ್ನು ಅಂತಿಮಗೊಳಿಸಿರುತ್ತದೆ.

ಇದರನ್ವಯ ವಿವಿಧ ಇಲಾಖೆಗಳನ್ನು ಒಗ್ಗೂಡಿಸಿ, ದರಪಟ್ಟಿಯನ್ನು ಲೋಕೋಪಯೋಗಿ, ನೀರಾವರಿ, ನೀರು ಸರಬರಾಜು, ಒಳಚರಂಡಿ, ವಿದ್ಯುಚ್ಛಕ್ತಿ, ಬಂದರು ಹಾಗೂ ಅರಣ್ಯ ಇಲಾಖೆಗಳಂತೆ ವಿಂಗಡಿಸಿ, ಒಟ್ಟಾರೆ, ಸಾಮಾನ್ಯ ಸಂಪುಟವಲ್ಲದೇ, 6 ಏಕರೂಪ ದರಪಟ್ಟಿಗಳನ್ನು ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಲೋಇ 51 ಆರ್.ಡಿ.ಎಫ್ 2019 ದಿನಾಂಕ 18–03–2022 ರಂತೆ ಜಾರಿಗೊಳಿಸಿರುತ್ತದೆ. ಮುಂದುವರೆದು, ಸರ್ಕಾರವು ಈಗಾಗಲೇ ಪ್ರಕಟಿಸಿರುವ 2021–22 ನೇ ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಸಂಪುಟಗಳನ್ನು 2023–24 ನೇ ಸಾಲಿನಲ್ಲಿ ಪರಿಷ್ಕರಣೆಗೊಳಿಸಲು ಕ್ರಮ ವಹಿಸಬೇಕಾಗಿರುವ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಲೋಇ 86 ಆರ್.ಡಿ.ಎಫ್ 2022 ದಿನಾಂಕ 13–02–2023 ರಲ್ಲಿ ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡವನ್ನು ಪುನರ್ ರಚಿಸಿದೆ. ಮುಂದುವರೆಸುತ್ತಾ, ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಸದರಿ ಆದೇಶದಲ್ಲಿ ಸೂಚಿಸಿದೆ.

ಅ) ಈ ತಂಡವು ವಿವಿಧ ಇಲಾಖೆಗಳ ಸದಸ್ಯರೊಂದಿಗೆ ಸಭೆಯನ್ನು ನಡೆಸಿ ಏಪ್ರಿಲ್–2023 ರ ಅಂತ್ಯದೊಳಗೆ ವಿವಿಧ ಇಲಾಖೆಗಳ ಏಕರೂಪ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಷ್ಕರಿಸಿ ಸಲ್ಲಿಸುವುದು.

ಆ) ವಿವಿಧ ಇಲಾಖೆಗಳ ಸದಸ್ಯರು ಏಕರೂಪ ದರಪಟ್ಟಿಯ ತಯಾರಿಕೆ, ವಿಶಿಷ್ಟ ವಿವರಣೆ ಹಾಗೂ ಡೇಟಾ ವಿಶ್ಲೇಷಣೆ ಮುಂತಾದ ವಿವರಗಳನ್ನು ತಾಂತ್ರಿಕ ತಂಡದೊಂದಿಗೆ ಚರ್ಚಿಸಿ ಅಂತಿಮಗೊಳಿಸುವುದು ಹಾಗೂ ಪರಿಷ್ಕರಿಸಿದ ಕರಡು ಏಕರೂಪ ದರಪಟ್ಟಿಗಳಿಗೆ ಆಯಾ ಇಲಾಖೆಯ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದ ಅನುಮೋದನೆ ಪಡೆದು ಸಲ್ಲಿಸುವುದು.

ಇ) ಈ ಏಕರೂಪ ದರಪಟ್ಟಿಗಳ ಪರಿಷ್ಕರಣೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಗಳ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ / ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್‌ಗಳು ಸೂಕ್ತ ಸಲಹೆ ಮತ್ತು ಅಭಿಪ್ರಾಯಗಳನ್ನು ಕಾರ್ಯ ನಿರತ ತಂಡದ ಮಾಹಿತಿಗೆ ಸಲ್ಲಿಸುವುದು.

ಈ) ತಾಂತ್ರಿಕ ಕಾರ್ಯ ನಿರತ ತಂಡವು 2023–24 ಸಾಲಿನ ಎಲ್ಲ ಸಂಪುಟಗಳ ಪರಿಷ್ಕರಣೆಯನ್ನು ಏಪ್ರಿಲ್ 2023 ರ ಅಂತ್ಯದೊಳಗೆ ಪೂರ್ಣಗೊಳಿಸಿ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಸಲ್ಲಿಸುವುದು.

ಸರ್ಕಾರದ ಆದೇಶಗಳ ಸೂಚನೆಗಳಂತೆ ಕಾರ್ಯಪಡೆಯು ಪ್ರತಿಯೊಂದು ಇಲಾಖೆಯೊಂದಿಗೆ ಚರ್ಚಿಸಿ, ಆಯಾ ಇಲಾಖೆಗಳ ದರಪಟ್ಟಿಗಳನ್ನು ಸಲ್ಲಿಸಿರುವಂತೆ, ಪ್ರತ್ಯೇಕವಾಗಿ ಪರಿಶೀಲಿಸಿ ಹಾಗೂ ಒಟ್ಟಾರೆ ತಾಂತ್ರಿಕವಾಗಿ ಹಾಗೂ ಕೆಲವೊಂದು ವೈಜ್ಞಾನಿಕವಾಗಿ ಸಮರ್ಥನೀಯ ಬದಲಾವಣೆಗಳನ್ನು ತಿಳಿಸಿರುತ್ತದೆ. ಇದರಂತೆ ಇಲಾಖೆಗಳು ಅಂತಿಮ ದರಪ ಟ್ಟಿಗಳನ್ನು ತಯಾರಿಸಿ, ಕಾರ್ಯಪಡೆಗೆ ಸಲ್ಲಿಸಿದ್ದು, ಕಾರ್ಯಪಡೆಯು ದರಪಟ್ಟಿಗಳನ್ನು ಪರಿಶೀಲಿಸಿ, ಸಹಮತಿಸಿರುತ್ತದೆ.

(ಆರ್. ಜೈ ಪ್ರಸಾದ್)
ಅಧ್ಯಕ್ಷರು, ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡ

WATER RESOURCES DEPARTMENT

SCHEDULE OF RATES FOR WATER RESOURCES DEPARTMENT's SPECIFIC ITEMS AS PART-I OF VOL-IV OF UNIFORM COMMON SR FOR THE YEAR : 2023-24

VOLUME - IV

PART - I

Govt Order No. PWD 86 RDF 2022, Bengaluru Dt: 15-11-2023

Govt Order No. WRD 81 KBN 2023, Bengaluru Dt: 23-11-2023

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನಡವಳಿಗಳು

ವಿಷಯ : ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಮಿತಿಯ ಶಿಫಾರಸ್ಸಿನನ್ವಯ ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ 2023-24 ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲು ಸಮಿತಿಯನ್ನು ರಚಿಸುವ ಬಗ್ಗೆ.

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ಓದಲಾಗಿದೆ:- 1. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ:ಇ-ಜಸಂಇ 43 ಕೆಬಿಎನ್ 2022, ದಿನಾಂಕ:18/02/2022.
2. ಸರ್ಕಾರದ ಪತ್ರ ಸಂಖ್ಯೆ:ಜಸಂಇ 43 ಕೆಬಿಎನ್ 2022 ದಿನಾಂಕ:06/04/2022.
3. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ:ಮುಇಂ/ಜಸಂಅಸಂ/ಉ ಮತ್ತು ಮೌ ಘಟಕ/ದರಪಟ್ಟಿ/2022-23/561, ದಿನಾಂಕ:09/03/2023.

ಪ್ರಸ್ತಾವನೆ:-

ಮೇಲೆ ಓದಲಾದ (1) ರ ಸರ್ಕಾರದ ಆದೇಶದಲ್ಲಿ ಏಕರೂಪ ದರಪಟ್ಟಿಯ ಸಂಪುಟ 4ರ ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸ್ಪೆಸಿಫಿಕ್ ಐಟಂಗಳ 2021-22 ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಷ್ಕರಿಸಲು ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ ಬೆಂಗಳೂರು ಇವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ಸಮಿತಿಯನ್ನು ರಚಿಸಲಾಗಿರುತ್ತದೆ.

ಮೇಲೆ ಓದಲಾದ (2) ರ ಪತ್ರದಲ್ಲಿ ಸಂಪುಟ 4 ರ ಭಾಗವಾಗಿ ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ ಒಳಗೊಂಡ 2021-22 ನೇ ಸಾಲಿನ ಏಕರೂಪ ದರಪಟ್ಟಿಯನ್ನು ದಿನಾಂಕ: 31/03/2022 ರಿಂದ ಅನ್ವಯವಾಗುವಂತೆ ಜಾರಿಗೆ ತರಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಏಕರೂಪ ದರಪಟ್ಟಿಯ ಸಂಪುಟ 4 ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ 2021-22 ನೇ ಪರಿಷ್ಕರಿಸಿದ ದರಪಟ್ಟಿಯನ್ನು 2022-23ನೇ ಆರ್ಥಿಕ ವರ್ಷಕ್ಕೂ ದಿನಾಂಕ 01/04/2022 ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಮುಂದಿನ ಆದೇಶದವರೆಗೆ ಮುಂದುವರೆಸಲು ಸರ್ಕಾರದ ದಿನಾಂಕ:26/09/2022ರ ಪತ್ರದಲ್ಲಿ ನಿರ್ದೇಶಿಸಲಾಗಿರುತ್ತದೆ.

ಮೇಲೆ ಓದಲಾದ (3) ರ ಪತ್ರದಲ್ಲಿ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ ಇವರು ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ಸರ್ಕಾರದ ಆದೇಶ ಸಂ: ಲೋಇ 86 ಆರ್‌ಡಿಎಫ್ 2022, ಬೆಂಗಳೂರು ದಿನಾಂಕ 13/02/2023 ರಂತೆ ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ಇವರ ನಡವಳಿಗಳ ಪ್ರಸ್ತಾವನೆಯಲ್ಲಿ ವಿವರಿಸಲಾದ ಅಂಶಗಳ ಹಿನ್ನೆಲೆಯಲ್ಲಿ, 2023-24 ನೇ ಸಾಲಿನ ರಾಜ್ಯವ್ಯಾಪಿ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಂಪುಟ-1 ರಿಂದ 8 ಪರಿಷ್ಕರಿಸಲು ತಾಂತ್ರಿಕ ಕಾರ್ಯನಿರತ ತಂಡವನ್ನು (Technical Working Group) ಪುನರ್ ರಚಿಸಿ ಆದೇಶಿಸಿದೆ. ಅದರಂತೆ ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸ್ಪೆಸಿಫಿಕ್ ಐಟಂಗಳನ್ನೊಳಗೊಂಡಂತೆ 2023-24 ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಷ್ಕರಿಸಲು ಸಮಿತಿಯನ್ನು ರಚಿಸಬೇಕಾಗಿದ್ದು, 2021-22ನೇ ಸಾಲಿಗೆ ರಚಿಸಲಾಗಿದ್ದ ಸಮಿತಿಯ ಮಾದರಿಯಲ್ಲಿ, ತಾಂತ್ರಿಕ ಕಾರ್ಯತಂಡದ ಸದಸ್ಯರನ್ನೂ ಸೇರಿ ಈ ಕೆಳಕಂಡಂತೆ ಸಮಿತಿಯನ್ನು ರಚಿಸಬಹುದಾಗಿರುತ್ತದೆ ಎಂದು ವರದಿ ಮಾಡಿರುತ್ತಾರೆ.

Vijayalakshmi S.

1	ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ಬೆಂಗಳೂರು,	ಅಧ್ಯಕ್ಷರು
2	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿ
3	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
4	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
5	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
6	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
7	ನಿರ್ದೇಶಕರು, ಕಾಡಾ ನಿರ್ದೇಶನಾಲಯ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
8	ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ, ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ-ಕೋಶ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
9	ಹೆಚ್ಚುವರಿ ಆಯುಕ್ತರು, ವಾಣಿಜ್ಯ ತೆರಿಗೆ ಇಲಾಖೆ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
10	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ನೀರಾವರಿ ಕೇಂದ್ರ ವಲಯ, ಮುನಿರಾಬಾದ್	ಸದಸ್ಯರು
11	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ನೀರಾವರಿ ಯೋಜನಾ ವಲಯ, ಕಲಬುರಗಿ	ಸದಸ್ಯರು
12	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಮೈಸೂರು,	ಸದಸ್ಯರು
13	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್. ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಅಣೆಕಟ್ಟು ವಲಯ, ಆಲಮಟ್ಟಿ	ಸದಸ್ಯರು
14	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಓ & ಎಂ ವಲಯ, ನಾರಾಯಣಪುರ	ಸದಸ್ಯರು
15	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಕಾಲುವೆ ವಲಯ-1, ಭೀಮರಾಯನಗುಡಿ	ಸದಸ್ಯರು
16	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ತುಮಕೂರು.	ಸದಸ್ಯರು
17	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಅಣೆಕಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
18	ಶ್ರೀ ಕೃಷ್ಣರಾವ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ವಿಭಾಗ- 2 ಅಣೆಕಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಮೈಸೂರು,	ಸದಸ್ಯರು
19	ಶ್ರೀ ಎನ್.ಜಿ.ಅನ್ವರ್ ಪಾಷ, ನಿವೃತ್ತ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್.	ಸದಸ್ಯರು
20	ಜಂಟಿ ಕಾರ್ಮಿಕ ಆಯುಕ್ತರು, ಕನಿಷ್ಠ ವೇತನ ಮತ್ತು ಬಾಲ ಕಾರ್ಮಿಕ, ಕಾರ್ಮಿಕ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.	ವಿಶೇಷ ಆಹ್ವಾನಿತರು

ಮುಂದುವರೆದು, ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ ಇವರು 2023-24ನೇ ಸಾಲಿಗೆ ಏಕರೂಪ ದರಪಟ್ಟಿಯ ಭಾಗವಾಗಿ ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸ್ಪೆಸಿಫಿಕ್ ಐಟಂಗಳನ್ನು ಅಂತಿಮಗೊಳಿಸಲು ಈ ಮೇಲಿನಂತೆ ಪರಿಷ್ಕೃತ ದರಪಟ್ಟಿ ಸಮಿತಿ ರಚಿಸಿ ಅನುಮೋದನೆ ನೀಡುವಂತೆ ಕೋರಿರುತ್ತಾರೆ.

Vijayalakshmi.S.

ಪ್ರಸ್ತಾವನೆಯಲ್ಲಿನ ಅಂಶಗಳನ್ನು ಕೂಲಂಕಷವಾಗಿ ಪರಿಶೀಲಿಸಿ, ಈ ಕೆಳಗಿನಂತೆ ಆದೇಶಿಸಿದೆ.

ಸರ್ಕಾರದ ಆದೇಶ ಇ-ಸಂಖ್ಯೆ:ಜಸಂಇ 81 ಕೆಬಿಎನ್ 2023, ಬೆಂಗಳೂರು,

ದಿನಾಂಕ: 17/04/2023

ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸ್ಪೆಸಿಫಿಕ್ ಐಟಂಗಳನ್ನೊಳಗೊಂಡಂತೆ 2023-24 ನೇ ಸಾಲಿನ ದರಪಟ್ಟಿಯನ್ನು ಪರಿಷ್ಕರಿಸಲು ಸಮಿತಿಯನ್ನು ರಚಿಸಬೇಕಾಗಿದ್ದು, 2021-22ನೇ ಸಾಲಿಗೆ ರಚಿಸಲಾಗಿದ್ದ ಸಮಿತಿಯ ಮಾದರಿಯಲ್ಲಿ, ತಾಂತ್ರಿಕ ಕಾರ್ಯತಂಡದ ಸದಸ್ಯರನ್ನೂ ಸೇರಿ ಈ ಕೆಳಕಂಡಂತೆ ಸಮಿತಿಯನ್ನು ರಚಿಸಿ ಆದೇಶಿಸಲಾಗಿದೆ.

1	ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.	ಅಧ್ಯಕ್ಷರು
2	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿ
3	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
4	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
5	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
6	ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು	ಸದಸ್ಯರು
7	ನಿರ್ದೇಶಕರು, ಕಾಡಾ ನಿರ್ದೇಶನಾಲಯ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
8	ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿ, ಆರ್ಥಿಕ ಇಲಾಖೆ, ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ-ಕೋಶ, ಬೆಂಗಳೂರು.	ಸದಸ್ಯರು
9	ಹೆಚ್ಚುವರಿ ಆಯುಕ್ತರು, ವಾಣಿಜ್ಯ ತೆರಿಗೆ ಇಲಾಖೆ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
10	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ನೀರಾವರಿ ಕೇಂದ್ರ ವಲಯ, ಮುನಿರಾಬಾದ್	ಸದಸ್ಯರು
11	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ನೀರಾವರಿ ಯೋಜನಾ ವಲಯ, ಕಲಬುರಗಿ	ಸದಸ್ಯರು
12	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಮೈಸೂರು,	ಸದಸ್ಯರು
13	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಅಣೆಕಟ್ಟು ವಲಯ, ಆಲಮಟ್ಟಿ	ಸದಸ್ಯರು
14	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಓ & ಎಂ ವಲಯ, ನಾರಾಯಣಪುರ	ಸದಸ್ಯರು
15	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಕಾಲುವೆ ವಲಯ-1, ಭೀಮರಾಯನಗುಡಿ	ಸದಸ್ಯರು
16	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ತುಮಕೂರು.	ಸದಸ್ಯರು

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17	ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಅಣೆಕಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು,	ಸದಸ್ಯರು
18	ಶ್ರೀ ಕೃಷ್ಣರಾವ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ವಿಭಾಗ- 2 ಅಣೆಕಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಮೈಸೂರು,	ಸದಸ್ಯರು
19	ಶ್ರೀ ಎನ್.ಜಿ.ಅನ್ವರ್ ಪಾಷ, ನಿವೃತ್ತ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್.	ಸದಸ್ಯರು
20	ಜಂಟಿ ಕಾರ್ಮಿಕ ಆಯುಕ್ತರು, ಕನಿಷ್ಠ ವೇತನ ಮತ್ತು ಬಾಲ ಕಾರ್ಮಿಕ, ಕಾರ್ಮಿಕ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.	ವಿಶೇಷ ಆಹ್ವಾನಿತರು

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲ ಆಜ್ಞಾನುಸಾರ
ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

Vijayalakshmi S.

(ವಿಜಯಲಕ್ಷ್ಮಿ.ಎಸ್) 17/4/2023
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ (ತಾಂತ್ರಿಕ-5)
ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ

ಪ್ರತಿಯನ್ನು:

1. ಮಹಾಲೇಖಪಾಲರು (ಲೆಕ್ಕಪತ್ರ ಮತ್ತು ಆಡಿಟ್), ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು.
2. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು.
3. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು,
4. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೃಷ್ಣಾ ಭಾಗ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು.
5. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ಬೆಂಗಳೂರು.
6. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು.
7. ನಿರ್ದೇಶಕರು, ಕಾಡಾ, ಬೆಂಗಳೂರು.
8. ಹೆಚ್ಚುವರಿ ಆಯುಕ್ತರು, ವಾಣಿಜ್ಯ ತೆರಿಗೆ ಇಲಾಖೆ, ಬೆಂಗಳೂರು,
9. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕ.ನೀ.ಅ.ನಿ. ನೀರಾವರಿ ಕೇಂದ್ರ ವಲಯ, ಮುನಿರಾಬಾದ್.
10. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕ.ನೀ.ಅ.ನಿ. ನೀರಾವರಿ ಯೋಜನಾ ವಲಯ, ಕಲಬುರಗಿ.
11. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕಾವೇರಿ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ಮೈಸೂರು.
12. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್. ಕೃ.ಭಾ.ಜ.ನಿ.ನಿ. ಆಣೆಕಟ್ಟು ವಲಯ, ಆಲಮಟ್ಟಿ
13. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃ.ಭಾ.ಜ.ನಿ.ನಿ, ಓ & ಎಂ ವಲಯ, ನಾರಾಯಣಪುರ.
14. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕೃ.ಭಾ.ಜ.ನಿ.ನಿ, ಕಾಲುವೆ ವಲಯ-1, ಭೀಮರಾಯನಗುಡಿ.
15. ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ವಿಶ್ವೇಶ್ವರಯ್ಯ ಜಲ ನಿಗಮ ನಿಯಮಿತ, ತುಮಕೂರು.
16. ಮುಖ್ಯ, ಇಂಜಿನಿಯರ್, ಆಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಬೆಂಗಳೂರು.
17. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು, ಜ.ಸಂ.ಇಲಾಖೆ ಅವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ.
18. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು,, ಜ.ಸಂ.ಇಲಾಖೆ ಅವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ
19. ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿಗಳು (ಕೃಭಾಜನಿ)/(ಎಂಎಂಐ) ಜ.ಸಂ.ಇಲಾಖೆ, ವಿಕಾಸ ಸೌಧ.
20. ಉಪ ಕಾರ್ಯದರ್ಶಿಗಳು, ಆರ್ಥಿಕ ಇಲಾಖೆ, ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ-ಆರ್ಥಿಕ ಕೋಶ, ವಿಧಾನಸೌಧ.
21. ಜಂಟಿ ಕಾರ್ಮಿಕ ಆಯುಕ್ತರು, ಕನಿಷ್ಠ ವೇತನ ಮತ್ತು ಬಾಲ ಕಾರ್ಮಿಕ, ಕಾರ್ಮಿಕ ಇಲಾಖೆ, ಬೆಂಗಳೂರು.
22. ವಿಶೇಷ ಕರ್ತವ್ಯಾಧಿಕಾರಿ (ತಾಂತ್ರಿಕ-2)/(ತಾಂತ್ರಿಕ-3), ಜ.ಸಂ.ಇಲಾಖೆ.
23. ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ (ತಾಂತ್ರಿಕ-1)/(ತಾಂತ್ರಿಕ-4)/(ಕಾಡಾ), ಜ.ಸಂ.ಇಲಾಖೆ.
24. ತಾಂತ್ರಿಕ ಸಹಾಯಕರು (ತಾಂತ್ರಿಕ-6)/(ತಾಂತ್ರಿಕ-7), ಜ.ಸಂ.ಇಲಾಖೆ.
25. ಶ್ರೀ ಕೃಷ್ಣರಾವ್, ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ವಿಭಾಗ- 2 ಅಣೆಕಟ್ಟು ಸುರಕ್ಷತಾ ಸಂಸ್ಥೆ, ಮೈಸೂರು,
26. ಶ್ರೀ ಎನ್.ಜಿ.ಅನ್ವರ್ ಪಾಷ, ನಿವೃತ್ತ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ (ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜ.ಸಂ.ಅ.ಸಂ. ರವರ ಮೂಲಕ)
27. ಶಾಖಾ ರಕ್ಷಕ ಕಡತ / ಹೆಚ್ಚುವರಿ ಪ್ರತಿಗಳು.

FOREWORD

A Committee was constituted vide G.O No.WRD 81 KBN 2023, Bengaluru, Dated : 17.04.2023 under the Chairmanship of Secretary, WRD, Bangalore, for preparing the Revised Schedule of Rates for the year 2023-24 including specific items pertaining to WRD. In this regard, meetings were held on 18.04.2023 and 13.10.2023 to finalize the Revised SR.

The following are the highlights of SR 2023-24:-

- The following chapters for the SR 2023-24 have been continued from SR 2021-22.
  a) Dam and Allied works
  b) Canal and Allied works
  c) Canal Cross Drainage works
  d) Tunnel and Allied works
  e) Gates / Hoists and Allied works
  g) Preliminary and Maintenance works
- However, Items relating to Lift Irrigation works which were earlier in Vol-IV: Part-2 have been retained and added to Part-I of Vol-IV in 2023-24 SR.
- The Reinforcement Steel items which were in WRD SR have been shifted to Vol-I of Uniform Common SR as per TWG recommendations.
- For basic rates of materials, rates available in Common SR of PWD Vol-I, II & III are considered. Rates of other materials are obtained from the Chief Engineers of various Zones of WRD for consideration in the SR.
- Rates for Explosives are obtained from M/s Konar Explosives & Co., Bangalore, and M/s. Keltech Energies Ltd.
- Further provision for the use of manufactured sand as per IS-383-2007 has been continued in the SR 2023-24.
- Karnataka State Annual Average Consumer Price Index for industrial workers for the year 2022 obtained from Office of the Commissioner of Labour, Government of Karnataka is considered.
- For the preparation of the Schedule of Rates 2023-24, the minimum wages of workers as notified by the Labour Department, Government of Karnataka vide Notification No : KAE/83/LWA/2022 , Dated: 13.01.2023 is adopted.
- The VDA payable for the period 01.04.2023 to 31.03.2024 has been revised based on the increase in State average CP index for Industrial workers for 2022 as published by the Department of Labour, vide Notification No: P&S/KLJ(CPI)/2022-23, Bangalore dated: 17.02.2023

Computation of Variable Dearness Allowance	(VDA)	:	
The state annual average CP index for industrial workers 2022	(CI)	:	8901
Base state annual average CP index for industrial workers 2020	(BI)	:	7973
Amount of variable DA per point increase in CP index		₹	0.04
Difference in Current & Base index	(CI - BI)	:	928
Variable DA / Day = (Difference in index) x(Rate of DA per point) x 30 / 26			
Variable DA / Day = (928) x (0.04) x 30 / 26		₹	**42.83/Day**

- For the preparation of the Schedule of Rates 2023-24, the minimum wages of workers of Zone-II is considered in the rate analysis as per the suggestions of Technical Working Group for Common SR.
- Whole Sale Price Index of commodities obtained from official website of Office of Economic Advisor, Ministry of Commerce & Industry, GOI is considered.
- The capital cost of machineries is worked out by considering the percentage variation in WPI over the period 2021-22 to 2022-23 of the following commodities.
  (1) Manufacture of machinery for mining, quarrying and construction.
  (2) Manufacture of metal -forming machinery and machine tools.
  (3) Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
- The cost towards usage of machineries is worked out based on the capital cost of machineries.
- Royalty Charges are considered as notified by Department of Commerce and Industries vide notification No: CI 115 MMN 2019 Dated: 30.06.2020. Same has been circulated by Mines & Geology vide letter no. MGD/DCB/2020-21, Bengaluru, Dated: 03-07-2020.
- Provisions in the data such as watering charges, formwork, contractor's profit, Overheads are made as per the suggestions of Technical Working Group for Common SR. For other charges the provisions considered in preparation of SR for 2021-22 are continued for preparation of WRD SR for 2023-24.
- Area Specific loading are applicable as in Vol- I of Uniform Common SR.

This SR is prepared for WRD specific items. In case of non availability of items, the items or equivalent items available in other volumes of Uniform Common SR shall be considered. For all items of works brief descriptions are given in the SR. For complete details the data sheets shall be referred.

Sd/-
Chairman,
SR Committee for
WRD Specific Items.

GENERAL NOTES ON SCHEDULE OF RATES

1. These general notes are applicable to all chapters of Schedule of Rates to the extent they are relevant.

2. All materials to be used on work shall conform to relevant specifications of Bureau of Indian Standards.

3. The basic rates (finished item rates), except otherwise specified, are inclusive of all leads and all lifts.

4. For material rates, labour rates, usage charges of machineries and item rates which are not found in this volume, rates available in other volumes of Uniform Schedule of Rates may be referred.

5. The basic rates are inclusive of royalty charges on materials as notified by Director, Mines and Geology vide Notification No:MGD/DCB/2020-21 Dt: 03.07.2020.

6. The basic rates are exclusive of cost of de-watering, working under watery situation, de-silting, river diversion arrangements and such similar arrangements wherever applicable. For items of work involving de-watering and working under watery situation, the basic rates are to be increased by 2 percent .

7. The basic rates are inclusive of cost of all materials including finishing, wastage, machinery, labour, contractor's profit, overheads and contribution to Labour Welfare cess.

8. This volume (Vol 4 - Part I) is prepared for WRD specific items. In case of non availability of items, the items or equivalent items available in other volumes of Uniform Common SR shall be considered.

9a. The prevailing market rates of cement, steel, bitumen, structural steel will be assessed and the rates shall be approved by the Bangalore circle PWD & published quarterly i.e.1st April,1st July, 1st October & 1st January whenever the variation in price is more/less than 10% over the previously approved rates.

9b. Issue Rates/ prevailing market rates of MS Steel pipe will be issued by BWSSB.

10. Useful rubble and stone chips obtained from excavation shall be issued to the contractor for use on works at the rates specified for these materials in the Schedule of Rates. A suitable clause shall be included in the tender in this regard.

11. The basic rates mentioned in Schedule of Rates are exculsive of G.S.T. A Separate provision shall be made while preparing the estimate by considering G.S.T as applicable and in accordance with the Finance Department Notification prevaling at the time of preparation of estimate.

12. A separate area specific loading provided in Volume I of Common SR of PWD shall be considered wherever applicable to the finished rates while preparing the estimate.

13. Manufactured sand is considered for rate analysis. Additional specifications are included in general conditions of contract for use of manufacutured sand/ artificial sand / fine aggregates as per Addendum-II in volume-I of Uniform Common Schedule of Rates.

14. General instructions and guidelines contained in Vol-I of Common Schedule of Rates is also applicable to this Schedule of Rates to the extent they are relevant.

SCHEDULE OF RATES FOR
WATER RESOURCES DEPARTMENT's SPECIFIC ITEMS (Part I)

INDEX

Chapter - WRD : 1

BASIC DATA

WRD : 1.1 : INTERNATIONAL SYSTEM OF UNITS (SI)

- Basic units: * meter (length) * kilogram (mass) * second (time) * Ampere (electric current) * degrees Celsius (temperature) * (luminous intensity)
- It is equal to a Newton per square meter and corresponds to the familiar pounds per square inch (psi): 1 psi = 6.89 kilopascal.
- The following are some of the common conversion factors for SI Unit conversions.

Quantity or Test	Value in Trade or Customary Unit	X	Conversion Factor	=	Value in SI Unit	Symbol
Area	square inches		6.45		square centimeters	cm^2
	square feet		0.0929		square meters	m^2
	square yards		0.836		square meters	m^2
	acres		0.405		hectares	ha
Basis Weight* or	lb (17x22-500)		3.760		grams per square meter	g/m^2
Substance	lb (24x36-500)		1.627		grams per square meter	g/m^2
(500-sheet ream) or	lb (25x38-500)		1.480		grams per square meter	g/m^2
Grammage* when	lb (25x40-500)		1.406		grams per square meter	g/m^2
expressed in g/m^2	pounds per 1000 sq ft (Paperboard)		4.882		grams per square meter	g/m^2
Breaking Length	meters		0.001		kilometers	km
Burst Index	g/cm^2		0.0981		kilopascals	$KPa.m^2/g$
	g/m^2				grams per square meter	g/m^2
Bursting Strength	pounds per square inch		6.89		kilopascals	kPa
Caliper	mils		0.0254		millimeters	mm
Concora Crush	pounds		4.45		newtons	N
Edge Crush	pounds per inch		0.175		kilonewtons per meter	kN/m
Energy	British thermal units (Btu)		1055		joules	J
Flat Crush	pounds per square inch		6.89		kilopascals	kPa
Force	kilograms		9.81		newtons	N
	pounds		4.45		newtons	N
Length	angstroms		0.1		nanometers	nm
	microns		1		micrometers	µm
	mils		0.0254		millimeters	mm
	feet		0.305		meters	m
Mass	tons (2000 lbs.)		0.907		metric tons	t
	pounds		0.454		kilograms	kg
	ounces (avd p)		28.3		grams	g
Mass per Unit Volume	ounces per gallon		7.49		kilograms per cubic meter	kg/m^3
	pounds per cubic foot		1.60		kilograms per cubic meter	kg/m^3
Puncture Resistance	foot pounds		1.36		joules	J
Ring Crush	pounds (for a 6" length)		0.0292		kilonewtons per meter	KN/m
Stiffness (Taber)	gram centimeters (Taber Units)		0.0981		millinewton meters	mN• m
Tear Strength	grams		9.81		millinewtons	mN
Tensile Breaking Load	pounds per inch		0.175		kilonewtons per meter	kN/m
	kilograms per 15 millimeters		0.654		kilonewtons per meter	kN/m
Volume, Fluid	ounces (US Fluid)		29.6		milliliters	mL
	gallons		3.79		liters	L
Volume, Solid	cubic inches		16.4		cubic centimeters	Cm^3
	cubic feet		0.0283		cubic meters	m^3
	cubic yards		0.765		cubic meters	m^3

WRD: 1.2 : STATEMENT OF RATES FOR MATERIALS FOR WRD SPECIFIC ITEMS OTHER THAN MATERIALS AVALIABLE IN Vol- I, II & III of PWD SR 2023-24

Sl No.	DESCRIPTION OF MATERIAL	UNIT	HSN Code	RATE in ₹.
1	2	3	4	5
I.	**CONSTRUCTION MATERIALS :**			
1	Acid resisting mortar mix	kg	3816	69.00
2	Acrylic emulsion paint	L	3209	225.00
3	Aluminium beading for glass fixing	m	7610	41.00
4	Binding wire	kg	7229	55.00
5	Bolts / Nuts / Washers (galvanized general purpose)	kg	7318	87.00
6	Bolts / Nuts / Washers (hot dipped galvanized)	kg	7318	112.00
7	Bolts / Nuts / Washers (MS general purpose)	kg	7318	88.00
8	Bolts / Nuts / Washers (stainless steel)	kg	7318	201.00
9	Burnt stone slab 100 mm thick	m^2	2516	450.00
10	Cast iron blocks	kg	7201	63.00
11	Cement concrete solid bricks 40 x 20 x 20 cm	each	6810	56.00
12	Coal tar epoxy paint	L	2707	241.00
13	Copper sheet 16 SWG	kg	7409	493.00
14	Coursed rubble stone 300 x 300 x 450 mm	each	2516	51.00
15	Coursed rubble stone 300 x 300 x 600 mm	each	2516	66.00
16	D - cord	m	4007	15.00
17	De-greasing / de-rusting compound	L	3812	396.00
18	Detonating fuse coil	m	3603	10.00
19	Detonator electric	each	3603	40.00
20	Detonator ordinary	each	3603	4.00
21	Empty cement bag	each	4202	3.00
22	Explosive ANFO high strength booster	kg	3602	96.00
23	Explosive small dia (Kelvex-220 or equivalent)	kg	3602	83.00
24	Manufactured Sand (M-Sand)	m^3	2517	1476.00
25	G.I barbed wire 12 x 12 gauge	kg	7313	73.00
26	G.I chain link mesh 10 gauge 50 x 50 mm opening	m^2	7313	159.00
27	G.I sheet (corrugated) Class-II 1 mm thick	t	7301	69232.00
28	G.I sheet (plain) Class-II 1 mm thick	t	7301	64359.00
29	G.I Stretcher wire	kg	7229	87.00
30	Hectometre stone one line dressed	each	2516	286.00

Sl No.	DESCRIPTION OF MATERIAL	UNIT	HSN Code	RATE in ₹.
1	2	3	4	5
31	Hemp yarn	kg	5308	99.00
32	Honne wood planks	m^3	4406	64000.00
33	Hume pipe with collar 150 mm dia	m	6811	378.00
34	Hume pipe with collar 300 mm dia	m	6811	731.00
35	Ironite compound	kg	2620	31.00
36	J- Bolts 300 mm long	each	7318	52.00
37	Jungle wood planks	m^3	4403	31569.00
38	LDPE sheet 500 micron thick	m^2	3901	122.00
39	LDPE sheet 750 micron thick	m^2	3901	178.00
40	LDPE sheet 1000 micron thick	m^2	3901	234.00
41	M.S pipe 200 / 300 mm dia	kg	7304	73.00
42	M.S pipe 32 mm dia	m	7304	214.00
43	Oxalic acid	L	2917	54.00
44	Plain glass 4 mm thick	m^2	7019	457.00
45	Pre-stressed concrete pipe (18 kg / cm^2 test pressure) 1000 mm dia	m	6810	7433.00
46	Pre-stressed concrete pipe (18 kg / cm^2 test pressure) 1200 mm dia	m	6810	8776.00
47	Pre-stressed concrete pipe (18 kg / cm^2 test pressure) 800 mm dia	m	6810	6126.00
48	PVC sealing strip	m	3920	60.00
49	PVC water stopper 310 mm wide (central bulb type)	m	3923	266.00
50	Rapid wire mesh 50 x 50 mm opening non-galvanized	m^2	7314	170.00
51	Resin bond Cement capsule	each	3214	49.00
52	Rivets	kg	7318	94.00
53	Rolling shutter sections	m^2	7326	2877.00
54	Rolling shutter top cover	m	8309	678.00
55	Rough stone 200 x 200 x 750 mm	each	2516	38.00
56	Rubber bottom seal for gate (flat type)	m	4016	326.00
57	Rubber corner seal for gate (music note type teflon cladded)	m	4016	1086.00
58	Rubber corner seal for gate (music note type uncladed)	m	4016	420.00
59	Rubber side seal for gates (music note type teflon cladded)	m	4016	1119.00
60	Rubber side seal for gate (music note type uncladed)	m	4016	407.00
61	Rubber side seal for gate (Z type)	m	4016	424.00

Sl No.	DESCRIPTION OF MATERIAL	UNIT	HSN Code	RATE in ₹.
1	2	3	4	5
62	Size stone 150 to 200 mm height	each	2516	14.00
63	Size stone 200 to 250 mm height	each	2516	14.00
64	Size stone 250 to 300 mm height	each	2516	20.00
65	Shahabad stone slab	m^2	2516	435.00
66	Shalimastic sealing compound	kg	4005	143.00
67	Stainless steel plate / flats	kg	7218	278.00
68	Steel door (frame and Shutter tubular sections)	m^2	7308	6206.00
69	Steel door (frame CRCA sheet Shutter tubular sections)	m^2	7308	5486.00
70	Steel window (tubular frame and tubular section shutter excluding glass)	m^2	7308	3304.00
71	Steel window (tubular frame and Z section shutter excluding glass)	m^2	7308	2372.00
72	Stone chips (Excavated material at work site)	m^3	2517	459.00
73	Stone chips (at quarry)	m^3	2517	602.00
74	Synthetic Enamel paint 1st quality	L	3208	231.00
75	Tarfelt joint filler board 12 mm thick	m^2	4411	365.00
76	Tarfelt joint filler board 20 mm thick	m^2	4411	572.00
77	Through stones 200 x 200 x 300 to 450 mm long	each	2516	27.00
78	Through stones 250 x 250 x 450 to 600 mm long	each	2516	25.00
79	Through stones 300 x 300 x 650 to 750 mm long	each	2516	34.00
80	Un-coursed rubble stones(Excavated material at work site)	m^3	2517	404.00
81	Water proofing compound	kg	2853	35.00
82	Welding electrodes 4 mm dia (general purpose)	each	8311	11.00
83	Welding electrodes 4 mm dia (radiographic low hydrogen)	each	8311	23.00
84	Welding electrodes 4 mm dia (stainless steel)	each	8311	67.00
85	Weld mess 100 x 50 mm 10 gauge non-galvanized	m^2	8311	240.00
86	Wire brush	each	9603	45.00
87	Weld mesh 50 x 50 mm 13 gauge	m^2	7314	249.00
88	Wire mesh 20 gauge (50 mm x 50 mm chain link)	m^2	7314	253.00
89	Zinc	kg	7901	255.00
90	Zinc chromate red oxide primer paint	L	7907	120.00
91	Zinc rich epoxy primer paint (zinc content - 90 %)	L	7907	373.00

Sl No.	DESCRIPTION OF MATERIAL	UNIT	HSN Code	RATE in ₹.
1	2	3	4	5
II.	**MANUFACTURED MATERIALS FOR GATES / HOISTS :**			
1	Alloy steel Pin (Stainless steel)	kg	7319	420.00
2	Alloy steel Shaft (Corbon steel)	kg	7228	340.00
3	Bronze-alluminium alloy Bearing / Bush	kg	7228	820.00
4	Cast steel Drum / Gear	kg	7307	240.00
5	Cast steel Pinion	kg	7307	245.00
6	Cast steel Wheel / Pulley / Hub / Plummer / Roller	kg	7307	200.00
7	Forged steel Hook / Shackle	kg	7326	265.00
III.	**ACCESSORIES FOR MACHINERY / EQUIPMENT :**			
1	Air hose 25 mm dia	m	8421	247.00
2	Air hose 50 mm dia	m	8421	332.00
3	Cardium compound	kg	3818	122.00
4	Casing shoe bit	each	9605	12939.00
5	Diamond core bit BX size	each	3824	14772.00
6	Diamond core bit NX size	each	3824	18723.00
7	Diesel	L	2710	87.89
8	Double tube core barrel	each	7307	17153.00
9	Electric power (HT - 2B category)	Kwhr	-	9.25
10	Extension rod with coupling sleeve	m	7228	5155.00
11	Gear oil HP-90	L	2710	279.00
12	Grease GEM-RR3	kg	3403	317.00
13	Jack hammer drill rod 1.5 m	each	7228	4892.00
14	Jack hammer drill rod 2.5 m	each	7228	8115.00
15	Lubricant	L	3403	293.00
16	Nozzle for guniting / sand blasting gun	each	8424	461.00
17	Nylon conveyor belt 3 ply 600 mm width	m	5910	2918.00
18	Nylon conveyor belt 3 ply 1000 mm width	m	5910	4558.00
19	Paving cylinder	each	-	28507.00
20	Petrol	L	2710	101.94
21	Rails	t	7302	57280.00
22	Reamer shell	each	8207	6337.00
23	Shutter oil	L	3403	50.00
24	Spinning belt	each	8448	13024.00

Sl No.	DESCRIPTION OF MATERIAL	UNIT	HSN Code	RATE in ₹.
1	**2**	**3**	**4**	**5**
25	T.C cross bit 100 mm dia	each	-	11998.00
26	T.C cross bit 50 mm dia	each	-	14994.00
27	T.C cross bit 75 mm dia	each	-	5440.00
28	Tyre and tube set for truck	Set	4013	17698.00
29	Water hose (pressure hose)	m	-	228.00
30	Wire rope (confoming to IS-2266)	kg	7312	196.00
	MI SPECIFIC :			
1	**RCC spun pipe P-2 Class (IS : 458) :**			
	400 mm dia	m	6810	838.00
	450 mm dia	m	6810	1026.00
	500 mm dia	m	6810	1167.00
	600 mm dia	m	6810	1492.00
	700 mm dia	m	6810	1643.00
	800 mm dia	m	6810	2273.00
	900 mm dia	m	6810	2474.00
	1000 mm dia	m	6810	3028.00
	1100 mm dia	m	6810	3521.00
	1200 mm dia	m	6810	4242.00
2	**RCC spun pipe P-3 Class (IS : 458) :**			
	400 mm dia	m	6810	1443.00
	450 mm dia	m	6810	1818.00
	500 mm dia	m	6810	1924.00
	600 mm dia	m	6810	2712.00
	700 mm dia	m	6810	3089.00
	800 mm dia	m	6810	3835.00
	900 mm dia	m	6810	4574.00
	1000 mm dia	m	6810	5361.00
	1100 mm dia	m	6810	5781.00
	1200 mm dia	m	6810	6631.00
	NOTES : For Material rates which are not available in the above list, other Volumes of Uniform Common Schedule of rates may be reffered.			

WRD: 1.3 : STATEMENT OF WAGES OF WORKERS (Organisation specific)

Sl No.	Class of Employment	Minimum Rates of Wages per month.				
1	Engineering Graduate Employee	Basic	27864.76			
		VDA	1113.60			
		Total	28978.36			
2	Diploma in Engineering Employee	Basic	22199.76			
		VDA	1113.60			
		Total	23313.36			
Sl No.	**Class of Employment**	**Minimum Rates of Wages per Day**				
			ZONE-I	**ZONE-II**	**ZONE-III**	**ZONE-IV**
1	**2**	**3**	**4**	**5**	**6**	**7**
I.	**HIGHLY SKILLED CATEGORY:**					
1	Literate mazdoor/ Labourer	Basic	647.15	588.32	534 .84	481.35
		VDA	42.83	42.83	42.83	42.83
		Total	689.98	631.15	577.67	524.18
II.	**SKILLED CATEGORY:**					
1	Diver with headgear					
2	Electrician (Licensed)					
3	Gauge reader/ Repairer					
4	Operator Air compressor					
5	Operator Batching plant					
6	Operator Concrete/ Asphalt mixer					
7	Operator Concrete/ Asphalt paver	Basic	633.84	576.22	523.84	471.45
8	Operator Drilling jumbo/ Loco/ Winch (Pneumatic Driller)	VDA	42.83	42.83	42.83	42.83
9	Operator Crusher/ Conveyor / Mucker	Total	676.67	619.05	566.67	514.28
10	Operator Tipper/ Dumper Transit mixer					
11	Pump Driver					
12	Spun pipe moulder					
13	Struct. steel Fabricator/ Marker/ Erector					
14	Work Inspector/ Maistry / Supervisor					

			ZONE-I	ZONE-II	ZONE-III	ZONE-IV
III.	**SEMI-SKILLED CATEGORY:**					
1	Cook					
2	Gangman/ Head/ Survey Mazdoor					
3	Gardener/ Trained mali					
4	Helper Air compressor					
5	Helper Batching plant					
6	Helper Blaster					
7	Helper Bus/ Ambulance /Lorry/ Tanker					
8	Helper Concrete/ Asphalt mixer					
9	Helper Concrete/ Asphalt paver					
10	Helper Core drilling machine					
11	Helper Crane/ Tower crane/ Cable way					
12	Helper Drilling jumbo/ Loco/ Winch	Basic	613.88	558.07	507.34	456.60
13	Helper Grouting/ Guniting/ Shotcreting	VDA	42.83	42.83	42.83	42.83
14	Helper Jack hammer / Pneumatic tamper	Total	656.71	600.90	550.17	499.43
15	Helper Laboratory/ Instrumentation					
16	Helper Road roller					
17	Helper Shovel/ Scraper/ Dozer					
18	Helper Crusher/ Conveyor/ Mucker					
19	Helper Tipper/ Dumper/ Transit mixer					
20	Helper Vibrator					
21	Helper Vibratory plain/ padfoot roller					
22	Helper Wagon drill/ Drifter					
23	Lineman Electric/ Telephone					
24	Operator Grouting/ Guniting/ Shotcreting					
25	Operator Lathe/ Drilling/ Shearing machine					
26	Operator Bending/ Planing machine					
27	Operator Spillway/ Sluice gate					

			ZONE-I	ZONE-II	ZONE-III	ZONE-IV
	SEMI-SKILLED CATEGORY: (Cont.)					
28	Operator Concrete vibrator					
29	Operator Vibratory plain/ Padfoot roller	Basic	613.88	558.07	507.34	456.60
30	Operator Wagon drill/ Drifter	VDA	42.83	42.83	42.83	42.83
31	Patkaries / Neeraganti / Sowdy / Valveman / Canal sluice operator / Waterman	Total	656.71	600.90	550.17	499.43
32	Painter Cl- II					
33	Photographer/Horticulture Assistant					
IV.	**UN-SKILLED CATEGORY:**					
1	Cartman with double bullock cart					
2	Cartman with single bullock cart					
3	Cement/ Asphalt handling mazdoor	Basic	600.57	545.97	496.34	446.70
4	Civic worker (Scavenger)	VDA	42.83	42.83	42.83	42.83
5	Heavy mazdoor	Total	643.40	588.80	539.17	489.53
6	Light mazdoor					
7	Watchman					
	OFFICE STAFF AND DRIVERS :					
1	Heavy Vehicle Driver/ Operator Bus / Lorry / Tanker / Ambulance	Basic	631.56	575.65	524.81	473.98
		VDA	42.83	42.83	42.83	42.83
		Total	674.39	618.48	567.64	516.81
2	Light Vehicle Driver/ Operator Light vehicles	Basic	615.59	561.13	511.61	462.10
		VDA	42.83	42.83	42.83	42.83
		Total	658.42	603.96	554.44	504.93
3	Telephone / Computer / Wireless Operator	Basic	615.59	561.13	511.61	462.10
		VDA	42.83	42.83	42.83	42.83
		Total	658.42	603.96	554.44	504.93

NOTES:

1. The wages under Zone-I are applicable to : Bruhat Bengaluru Mahanagara Palike and Agglomeration areas.
2. The wages under Zone-II are applicable to : All the Corporations in the State other than BBMP and Agglomeration areas.
3. The wages under Zone-III are applicable to: All District head quarters other than the places mentioned in Zone-II.
4. The wages under Zone-IV are applicable to: All other places of the State other than the places mentioned in Zone-II and Zone-III.
5. The wages of workmen of various categories are subject to revision during currency of SR for any revision in minimum daily wages and VDA by Govt of Karnataka.
6. The daily rates of wages and VDA of different categories of workers are computed by dividing the total monthly wage by 26.
7. Categories of workers for which provision has not been made in the above list the rates prevailing in the Schedule of rates of other Volumes of Common SR may be adopted.

WRD: 1.4 : STATEMENT OF USAGE CHARGES OF MACHINERY

Sl No:	Description of machinery	Unit	Basic Usage charge in ₹.	Fuel charge in ₹.	Crew Charge in ₹.	Total Usage Charge in ₹.
1	2	3	4	5	6	7
1	Agitator car / Transit mixer 2 m^3	Hour	543.00	1329.00	381.00	2253.00
2	Agitator car / Transit mixer 4 m^3	Hour	610.00	1329.00	381.00	2320.00
3	Air compressor 5 cmm electric	Hour	53.00	279.00	238.00	570.00
4	Air compressor 7 cmm diesel	Hour	128.00	1088.00	304.00	1520.00
5	Air compressor 7 cmm electric	Hour	67.00	373.00	238.00	678.00
6	Air compressor 8.5 cmm diesel	Hour	156.00	1360.00	304.00	1820.00
7	Air compressor 8.5 cmm electric	Hour	82.00	466.00	238.00	786.00
8	Air compressor 15 cmm electric	Hour	81.00	1035.00	254.00	1370.00
9	Batching plant 6 m^3 / hr rated capacity	Hour	97.00	207.00	457.00	761.00
10	Batching plant 15 m^3 / hr rated capacity	Hour	226.00	373.00	457.00	1056.00
11	Batching plant 50 m^3 / hr rated capacity	Hour	376.00	455.00	457.00	1288.00
12	Bending machine	Hour	29.00	124.00	187.00	340.00
13	Concrete bucket 1.5 m^3	Hour	9.00	9.00	---	18.00
14	Concrete hand mixer 45 / 30 ltr	Hour	8.00	6.00	---	14.00
15	Concrete mixer 300 / 200 ltr diesel	Hour	32.00	121.00	317.00	470.00
16	Concrete mixer 300 / 200 ltr (ele)	Hour	30.00	41.00	317.00	388.00
17	Concrete mixer 600 / 400 ltr diesel	Hour	65.00	242.00	317.00	624.00
18	Concrete mixer 600 / 400 ltr (ele)	Hour	60.00	83.00	317.00	460.00
19	Concrete paver 100 m^2 / hr	Hour	213.00	29.00	609.00	851.00
20	Convey mucker	Hour	564.00	288.00	254.00	1106.00
21	Core drilling machine	Hour	193.00	363.00	375.00	931.00
22	Diesel generating set 30 KVA	Hour	50.00	967.00	190.00	1207.00
23	Diesel generating set 50 KVA	Hour	78.00	1450.00	190.00	1718.00
24	Diesel loco 45 hp	Hour	183.00	816.00	238.00	1237.00
25	Dewatering pump 5 hp diesel	Hour	5.00	121.00	155.00	281.00
26	Dewatering pump 5 hp electric	Hour	2.00	41.00	116.00	159.00
27	Dewatering pump 10 hp diesel	Hour	9.00	242.00	155.00	406.00

Sl No:	Description of machinery	Unit	Basic Usage charge in ₹.	Fuel charge in ₹.	Crew Charge in ₹.	Total Usage Charge in ₹.
1	2	3	4	5	6	7
28	Dewatering pump 10 hp electric	Hour	4.00	83.00	116.00	203.00
29	Dewatering pump 20 hp diesel	Hour	21.00	483.00	155.00	659.00
30	Dewatering pump 20 hp electric	Hour	8.00	166.00	116.00	290.00
31	Drilling jumbo	Hour	308.00	65.00	254.00	627.00
32	Dumper 5.00 m^3	Hour	442.00	609.00	304.00	1355.00
33	Geophysical Ele.resistivity meter	Hour	49.00	---	---	49.00
34	Grouting pump	Hour	15.00	41.00	375.00	431.00
35	Guniting / sand blasting equipment	Hour	66.00	15.00	312.00	393.00
36	Mobile crane 8 t	Hour	323.00	1088.00	313.00	1724.00
37	Mobile crane 25 t	Hour	2968.00	3021.00	301.00	6290.00
38	Needle vibrator 40 mm dia. petrol	Hour	6.00	28.00	225.00	259.00
39	Pile boring rig with accessories	Hour	806.00	2175.00	317.00	3298.00
40	Planing machine	Hour	66.00	124.00	300.00	490.00
41	Plate shearing machine	Hour	47.00	166.00	187.00	400.00
42	Pneumatic placer 0.5 m^3	Hour	104.00	6.00	121.00	231.00
43	Pneumatic tamper	Hour	9.00	9.00	381.00	399.00
44	Pug cutting machine	Hour	13.00	4.00	---	17.00
45	Pusher leg	Hour	6.00	6.00	---	12.00
46	Road roller diesel 10 t	Hour	175.00	1088.00	301.00	1564.00
47	Shovel 0.50 m^3 75 hp	Hour	560.00	725.00	317.00	1602.00
48	Shovel 0.85 m^3 110 hp	Hour	926.00	1329.00	317.00	2572.00
49	Spinning machine	Hour	29.00	124.00	187.00	340.00
50	Stationary derric crane	Hour	50.00	15.00	---	65.00
51	Tipping tub 1.5 m^3	Hour	23.00	15.00	---	38.00
52	Tower crane 5 tonne	Hour	747.00	215.00	254.00	1216.00
53	Transfomer 250 KVA	Month	2606.00	---	---	2606.00
54	Truck 10 t	Hour	254.00	457.00	235.00	946.00
55	Upright drilling machine / Grinder	Hour	14.00	41.00	234.00	289.00

Sl No:	Description of machinery	Unit	Basic Usage charge in ₹.	Fuel charge in ₹.	Crew Charge in ₹.	Total Usage Charge in ₹.
1	2	3	4	5	6	7
56	Ventilation fan 20 hp	Hour	4.00	166.00	40.00	210.00
57	Vibrating plate compactor (diesel)	Hour	43.00	121.00	381.00	545.00
58	Vibratory pad foot roller 8 t	Hour	881.00	1571.00	375.00	2827.00
59	Waggon drill	Hour	166.00	15.00	375.00	556.00
60	Water tanker 8000 ltr	Hour	253.00	457.00	235.00	945.00
61	Winch 35 hp electric	Hour	76.00	290.00	381.00	747.00

NOTES:

1. Usage charges include depreciation, interest, repair charges, miscellaneous charges, insurance and road tax wherever applicable.

2. Fuel charges include cost of diesel / petrol / electric power as applicable and oil / lubricants and other miscellaneous charges.

3. Crew charges include wages of operator and helper on hourly basis.

   For the purpose of working out wages of crew on hourly basis the daily wages are converted to yearly wages by multiplying the daily wages with (26 days x 12 months).

   The yearly wage is then divided by yearly usage of machinery in hours to get hourly wages of operating crew.

WRD: 1.5 : ROYALTY CHARGES

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಸಂಖ್ಯೆ: ಗಭೂಇ/ಡಿಸಿಬಿ/2020–21

ನಿರ್ದೇಶಕರ ಕಛೇರಿ,
ಗಣಿ ಮತ್ತು ಭೂವಿಜ್ಞಾನ ಇಲಾಖೆ,
ನಂ. 49, ಖನಿಜ ಭವನ, ರೇಸ್ ಕೋರ್ಸ್ ರಸ್ತೆ,
ಬೆಂಗಳೂರು – 560001, ದಿನಾಂಕ : 03.07.2020
e-mail : dcbdmg@gmail.com

ಸುತ್ತೋಲೆ

ವಿಷಯ: ಕರ್ನಾಟಕ ಉಪ ಖನಿಜ ರಿಯಾಯಿತಿ ತಿದ್ದುಪಡಿ ನಿಯಮಾವಳಿಗಳು 2020 ರನ್ವಯ ದಿನಾಂಕ: 30.06.2020 ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಉಪ ಖನಿಜಗಳ ರಾಜಧನ ದರಗಳನ್ನು ಪರಿಷ್ಕರಿಸಿರುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: ಸರ್ಕಾರದ ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ: ಸಿಐ 115 ಎಂಎಂಎನ್ 2019 ದಿನಾಂಕ: 30.06.2020

* * * * *

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ ಸರ್ಕಾರದ ಅಧಿಸೂಚನೆ ಪತ್ರರಲ್ಲಿ ದಿನಾಂಕ: 30.06.2020 ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಕರ್ನಾಟಕ ಉಪ ಖನಿಜ ರಿಯಾಯಿತಿ ತಿದ್ದುಪಡಿ ನಿಯಮಾವಳಿಗಳು 2020 ರನ್ವಯ ಉಪ ಖನಿಜಗಳ ಮೇಲೆ ರಾಜಧನ ದರಗಳನ್ನು ಪರಿಷ್ಕರಿಸಲಾಗಿದೆ. ವಿವರಗಳು ಕೆಳಕಂಡಂತಿರುತ್ತದೆ.

ಕ್ರ. ಸಂ.	ಉಪ ಖನಿಜ	ರಾಜಧನ ಪ್ರತಿ ಮೆಟ್ರಿಕ್ ಟನ್ ಗೆ	ಪರಿವರ್ತನ ಕೋಷ್ಟಕ ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ನಂತೆ	ರಾಜಧನ ಪ್ರತಿ ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ
1	ಕಟ್ಟಡ ಕಲ್ಲು	ರೂ. 70	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 2.63 ಟನ್	ರೂ. 184
2	ಲ್ಯಾಟರೈಟ್ ಸ್ಟೋನ್	ರೂ. 60	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 1.80 ಟನ್	ರೂ. 108
3	ಜಲ್ಲಿ/ಮೆಟಲ್ ಎಲ್ಲಾ ವಿಧವಾದ (ಪುಡಿ ಗ್ರಾನೈಟ್/ಕ್ವಾಜೈಟ್)	ರೂ. 70	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 1.80 ಟನ್	ರೂ. 126
4	ಮರಳು	ರೂ. 80	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 1.72 ಟನ್	ರೂ. 138
5	ಗ್ರಾವೇಲ್ (ಮುರಂ)	ರೂ. 40	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 1.50 ಟನ್	ರೂ. 60
6	ಮಣ್ಣು (ಎಲ್ಲಾ ತರಹದ ಹೆಂಚು ಮತ್ತು ಇಟ್ಟಿಗೆ ತಯಾರಿಕೆಗಾಗಿ)	ರೂ. 60	1 ಕ್ಯೂಬಿಕ್ ಮೀಟರ್ ಗೆ = 1.50 ಟನ್	ರೂ. 90

ಸದರಿ ತಿದ್ದುಪಡಿ ಅಧಿಸೂಚನೆ ಪ್ರತಿಯನ್ನು ಮಾಹಿತಿಗಾಗಿ ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿದೆ.

ಸಹಿ/–

ನಿರ್ದೇಶಕರು

WRD: 1.6 : CONVEYANCE CHARGES FOR MATERIALS BY ANY MODE

Refer Volume-III of Uniform SR 2023-24

Note : Conveyance Charges for materials including loading and unloading is to be considered for dismantled/ demolished remains of any structures, stacks of silt, fallen muck in canal beds, tanks & reserviors to be disposed off to a safe distance subject to the approval by concerned Superintending Engineer.

Chapter - WRD : 2

DAM AND ALLIED WORKS

Sl. No.	Specification	Unit	Rate ₹
	EXCAVATION & FOUNDATION TREATMENT WORKS:		
WRD: 2.1	Excavation for foundation in **hard rock of all toughness** including boulders above 0.6 m diameter (0.113 m^3) **for dam, spillway, intake structure, surface power house** and other appurtenant structures by **approved controlled blasting methods** including control of vibration by use of delay detonators and control of fly rocks by muffling arrangements and placing the excavated rock neatly in specified dump area as directed including cost of all materials, machinery, labour and all other ancillary operations complete. (Organisation specific)	**m^3**	**730.00**
WRD: 2.2	**Preparing foundation bed for masonry or concrete** in rock portion by removing all loose material by wedging / chiselling and disposing off the same as directed and cleaning the surface with air and water jet including cost of all materials, machinery, labour and all other ancillary operations complete. (Organisation specific)	**m^2**	**55.00**
WRD: 2.3	**Preparing foundation bed for cut-off trench filling** in rock portion by removing all loose material by wedging / chiselling and disposing off the same as directed and all other ancillary operations complete (Organisation specific).	**m^2**	**44.00**
WRD: 2.4	**Drilling 50 mm dia. holes** vertical or inclined upto 10 degrees to vertical in rock / masonry / concrete by percussion drilling method using waggon drill or any other suitable equipment including cost of all materials, machinery, labour, redrilling through partially set grout wherever required and all other ancillary operations complete.		
2.4.1.	Upto **6 m** from surface.	**m**	**357.00**
2.4.2.	Beyond **6 m upto 12 m** from surface.	**m**	**393.00**
2.4.3.	Beyond **12 m upto 18 m** from surface.	**m**	**432.00**
2.4.4.	Beyond **18 m upto 24 m** from surface.	**m**	**475.00**
2.4.5.	Beyond **24 m upto 30 m** from surface.	**m**	**523.00**
2.4.6.	Beyond **30 m upto 36 m** from surface.	**m**	**575.00**
2.4.7.	Beyond **36 m upto 42 m** from surface.	**m**	**633.00**
2.4.8.	Beyond **42 m upto 48 m** from surface.	**m**	**696.00**
	Note: The item rate for drilling through rock / masonry / concrete includes redrilling through partially set grout, if any, in the portion of the hole already drilled and grouted.		
WRD: 2.5.	**Flushing grout holes** of all sizes with water and air jets alternatively for an average period of 30 minutes and observing water intake after flushing including cost of all materials, machinery, labour and all other ancillary operations complete.	**m**	**66.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.6	**Grouting** with neat cement grout mix of suitable consistency under specified grout pressure as directed in drilled holes by stage grouting method including cost of all materials, machinery, labour, redrilling if necessary and all other ancillary operations complete.		
2.6.1	**Consolidation grouting**	**t**	**13396.00**
2.6.2.	**Curtain grouting**	**t**	**14802.00**
WRD: 2.7.	**Providing and fixing up-heaval gauge** with all accessories as per specifications excluding cost of drilling holes including cost of all other materials, machinery, labour, equipments and all other ancillary operations complete.	**each**	**14265.00**
WRD: 2.8.	Providing and fixing 25 mm dia 3 m long cold twisted defomed steel **dowel bars** with one end driven into 38 mm dia 1.50 m deep hole drilled in bed rock and other end provided with L - bend for embedding in concrete / masonry of **over flow / non-over flow blocks** and other appurtenant works including cost of all materials, machinery, labour, drilling and cleaning hole, filling hole with thick cement slurry, driving anchor rod and all other ancillary operations complete.	**each**	**1345.00**
WRD: 2.9.	Providing and fixing 25 mm dia 2.75 m long ribbed steel **anchor rods** with one end split and driven fimly using steel wedge into 1.25 m deep 38 mm dia. hole drilled in **bed rock** and other end provided with L-bend for embedding in concrete / masonry for spillway and appurtenant works including cost of all materials, machinery, labour, steel wedge, drilling and cleaning hole, filling hole with thick cement slurry, driving anchor rod and all other ancillary operations complete.	**each**	**1274.00**
	CEMENT CONCRETE WORKS : (Should be read along with Note in the Appendix)		
WRD: 2.10.	Providing and laying in-situ vibrated **M-15 grade cement concrete using 80 mm down** approved, clean, hard, graded aggregates for **plain concrete works** including cost of all materials, machinery, labour, cleaning, providing mortar layer for lift joints, batching,mixing, finishing, curing with all other ancillary operations, complete.	**m^3**	**6301.00**
WRD: 2.11.	Providing and laying in-situ vibrated **M-10 grade cement concrete using 80 mm down** approved, clean, hard graded aggregates for **plain concrete works** including cost of all materials, machinery, labour, cleaning, providing mortar layer for lift joints, batching, mixing, placing in position, levelling, vibrating, finishingcuring with all other ancillary operations complete.	**m^3**	**6156.00**
WRD: 2.12.	Providing and laying in-situ vibrated **M-20 grade cement concrete using 40 mm down** approved, clean, hard, graded aggregates for **RCC works of gallery, sluice, spillway crest, spillway d / s face, energy dissipating structures, training walls, piers, abutments** and such other locations including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling,vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6254.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.13.	Providing and laying in-situ vibrated **M-15 grade cement concrete using 40 mm down** approved, clean, hard, graded aggregates for **plain concrete works** including cost of all materials, machinery, labour, cleaning, providing mortar layer for lift joints, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6067.00**
WRD: 2.14.	Providing and laying in-situ vibrated **M-15 grade cement concrete using 40 mm down** approved, clean, hard, graded aggregates with placing and **sinking plums** of size 150 to 80 mm upto 15 percent for **gravity type structures** including cost of all materials, machinery, labour,cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6193.00**
WRD: 2.15.	Providing and forming **porous (with out sand) concrete body drains** of size 685 x 685 mm with 230 mm diameter central hole using cement and 20 mm down approved, clean, hard, graded coarse aggregate **in 1 : 3.50** proportion by volume including cost of all materials, machinery, labour, batching, mixing, placing in position, tamping, curing and all other ancillary operations complete.	**m**	**2927.00**
WRD: 2.16.1.	Providing and laying in-situ vibrated **M-20 grade cement concrete using 20 mm down** approved, clean, hard, gradedaggregates for **RCC solid parapet** consisting of 350 x 200 mm kerb, 350 x 350 x 1000 mm pillars spaced approximately at 3.35 m c / c, 125 mm thick wall 800 mm height with 125 mm thick and 350 mm wide coping slab for wall and 125 mm thick 400 x 400 mm coping for pillars with top edges of kerb and coping chamferred / rounded as directed including cost of all materials, machinery, labour, centering, scaffolding, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete. (excluding cost of providing and placing reinforcement steel and gate)	**m**	**3377.00**
WRD: 2.16.2.	Providing and laying insitu vibrated **M-20 grade cement concrete using 20 mm down** approved, clean, hard, graded aggregates for **RCC ornamental parapet** consisting of 350 x 200 mm kerb, 350 x 350 x 1000 mm pillars spaced approximately at 3.5 m apart, 200 x 150 mm posts 800 mm height approximately 300 mm c / c with 125 mm thick and 350 mm wide coping slab for posts 400 x 400 x 125 mm coping slab for pillars with top edges of kerb and coping chamferred or rounded as directed including cost of all materials, machinery, labour, fomwork, centering, scaffolding,cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing) with all other ancillary operations complete. (excluding cost of providing and placing reinforcement steel and gate	**m**	**3545.00**
WRD: 2.17.	**Pre-cooling** to control placement temperature of **cement concrete** in the range of 18° to 21° C at the concrete placement point by inundation of coarse aggregates by circulating normal water and using flaked ice and water chilled upto 4° C for mixing concrete including cost of all materials, machinery, labour with all other ancillary operations complete.	**m^3**	**108.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.18	Providing and forming **expansion joint** for spillway bridge consisting of 75 x 75 x 6 mm angles 2 numbers provided with 250 mm long 12 mm dia. anchors fixed to both flanges at 150 mm c / c and 140 x 6 mm plate welded on top of one of the angle including cost of all materials, labour, machinery, providing and fixing 38 mm thick joint filler board matching the thickness of wearing coat, painting and all other ancillary operations complete.	**m**	**2525.00**
	MASONRY & GUNITING WORKS :		
WRD: 2.19.	Providing and constructing **coursed rubble face stone masonry** using approved stones in cement mortar 1 : 3 proportion by volume including cost of all materials, machinery, labour, ramps, cleaning, packing mortar and wedging stone chips into joints, curing and all other ancillary operations complete.	**m^3**	**5573.00**
WRD: 2.20.	Providing and constructing **coursed rubble face stone masonry** using approved stones in cement mortar 1 : 4 proportion by volume including cost of all materials, machinery, labour, ramps, cleaning, packing mortar and wedging stone chips into joints, curing and all other ancillary operations complete.	**m^3**	**5345.00**
WRD: 2.21.	Providing 50 mm deep **cement mortar pointing** to face stone masonry in **CM 1 : 2** proportion by volume including cost of all materials, labour, raking-out and cleaning joints, pressing mortar into joints, finishing, curing and all other ancillary operations complete. **Note:** If water proofing compound is added to cement mortar, add ₹: 3.50/ m2	**m^2**	**198.00**
WRD: 2.22.	Providing 50 mm deep **cement mortar pointing** to face stone masonry in **CM 1 : 3** proportion by volume including cost of all materials, labour, raking-out and cleaning joints, pressing mortar into joints, finishing, curing and all other ancillary operations complete. **Note:** If water proofing compound is added to cement mortar, add ₹ 3.00/ m2	**m^2**	**192.00**
	CONTRACTION JOINT WORKS:		
WRD: 2.23.	Providing and constructing **contraction joints** by fixing 6 SWG 600 mm wide annealed **copper sheets in two lines** with 8 mm dia. steel dowel rods on either side at one metre interval, forming 125 x 125 mm size groove in between copper strips for filling asphalt, fixing 15 mm dia two legged G.I pipe with U-bend at bottom for circulation of steam at intervals and forming 150 mm dia formed drain behind water seals including cost of all materials, machinery, labour, filling asphalt in groove, circulation of steam through pipe and all other ancillary operations complete.	**m**	**12570.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.24.	Providing and constructing **contraction joints** by fixing 310 mm wide central bulb type approved quality **PVC water stop in two lines** with 8 mm dia. steel dowel rods on either side at 1 m interval, forming 125 x 125 mm size groove in between two water stops for filling asphalt, fixing 15 mm dia two legged G.I pipe with U-bend at bottom for circulating steam at interval and forming 150 mm dia formed drain behind water seals including cost of all materials, machinery, labour, filling asphalt in groove, circulation of steam through pipes, vulcanizing water seal joints and all other ancillary operations complete.	**m**	**2302.00**
WRD: 2.25.	Providing and constructing **contraction joints** by fixing 16 SWG 600 mm wide annealed **copper sheets in single line** with 8 mm dia steel dowel rods on either side at 1 metre interval including cost of all materials, machinery, labour, brazing copper sheet joints and all other ancillary operations complete.	**m**	**5634.00**
WRD: 2.26.	Providing and constructing **contraction joints** by fixing 230 mm wide central bulb type **PVC water stop in single line** supported by 10 mm dia. steel dowel rods on either side at 1 metre interval including cost of all materials, machinery, labour, vulcanizing water seal joints and all other ancillary operations complete.	**m**	**575.00**
	EMBANKMENT WORKS :		
WRD: 2.27.	Providing **hearting** embankment **using selected approved impervious soil from borrow** areas in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting to **density control of not less than 95 percent** using power roller and all other ancillary operations complete.	**m^3**	**506.00**
WRD: 2.28.	Providing **cut-off trench filling using selected approved impervious soil from borrow areas** in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting to **density control of not less than 95 percent** using power roller and all other ancillary operations complete.	**m^3**	**517.00**
WRD: 2.29.	Providing **impervious embankment adjacent to masonry / concrete structure and filling trial pits using impervious approved soil from borrow area** in layers of 100 to 150 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, picking previous layer, spreading soil in layer of specified thickness, sorting-out, breaking clods, levelling, sectioning edges / sides, watering, compacting to **density control of not less than 95 percent** using pneumatic tampers / vibrating earth rammers and all other ancillary operations complete.	**m^3**	**623.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.30.	Providing and constructing **dry rubble rock-toe using rubble and stone chips from approved source** including cost of all materials, machinery, labour, hand packing rubble and stone chips, finishing top and sides to required slopes as per approved drawings and all other ancillary operations complete.	**m^3**	**1245.00**
WRD: 2.31.	Providing and constructing **dry rubble rock-toe using rubble and stone chips from dump yard** including cost of all materials, machinery, labour, hand packing rubble and stone chips, finishing top and sides to required slopes as per approved drawings and all other ancillary operations complete.	**m^3**	**926.00**
WRD: 2.32.	Providing and laying 300 mm diameter **open jointed hume pipes with collars** in rock-toe for drainage including cost of all materials, machinery, labour and all other ancillary operations complete.	**m**	**951.00**
WRD: 2.33.	Providing and constructing 1.20 m internal diameter and average 3 m height **RCC Inspection / Maintenance chamber** consisting of 200 mm thick bed / sides / top slab /1.5 m long cut-off wall all reinforced with 12 mm dia bars at 300 mm c / c bothways, 600 mm dia and 75 mm thick top cover reinforced with 8 mm dia bars at 150 mm c/c bothways,12 mm dia rungs at specified intervals, 300 mm dia hume pipe out-let in M-15 grade cement concrete using 20 mm down approved clean, hard, graded aggregates including cost of all materials, machinery, labour, excavation for foundation, fabricating and placing reinforcement steel, batching, mixing, laying and vibrating concrete, finishing, curing and all other ancillary operations complete as per approved drawings.	**each**	**48399.00**
	FILTER & PITCHING WORKS :		
WRD: 2.34.	Providing and constructing **longitudinal / cross graded filter drains using sand, 80mm to 20 mm and 20 mm down** clean, hard graded aggregates from approved source satisfying specified filter criteria in layers of specified thickness including cost of all materials, machinery, labour, laying to required slopes, compaction and all other ancillary operations complete as per specifications and approved drawings.	**m^3**	**1985.00**
WRD: 2.35.	Providing and constructing **vertical /inclined graded filter media using clean, hard graded sand and coarse aggregates from approved source** satisfying specified filter criteria in layers of specified thickness including cost of all materials, machinery, labour, laying to required slopes, compacting and all other ancillary operations complete as per specifications and approved drawings.		
2.35.1	**Sand layer.**	**m^3**	**2092.00**
2.35.2	**10 mm down graded coarse aggregate layer**	**m^3**	**1993.00**
2.35.3	**20 mm down graded coarse aggregate layer**	**m^3**	**1966.00**

Sl. No.	Specification	Unit	Rate ₹
2.35.4	**40 mm down graded coarse aggregate layer**	**m^3**	**1806.00**
2.35.5	**80 mm down graded coarse aggregate layer**	**m^3**	**1726.00**
WRD: 2.36.	Providing and constructing **graded filter media below and behind rock toe** consisting of 200 mm thick sand, 250 mm thick 20 to 4.75 mm and 400 mm thick 80 to 20 mm clean, hard, graded coarse aggregates from approved source satisfying specified filter criteria including cost of all materials, machinery, labour, laying to required thickness and slope, compacting and all other ancillary operations complete as per specifications and approved drawings.	**m^3**	**1850.00**
WRD: 2.37.	Providing and laying **filter media** consisting of two layers of 250 gsm poly-propeline **non-woven filter fabric** with 400 mm thick **20 mm down** clean, hard, graded **coarse aggregate** in between for vertical / inclined / horizontal filter blanket for embankment including cost of all materials, machinery, labour and all other ancillary operations complete.	**m^2**	**1404.00**
WRD: 2.38.	Providing and constructing **450 mm thick chimney filter** using clean approved sand satisfying specified filter criteria including cost of all materials, machinery, labour, compacting and all other ancillary operations complete.	**m^3**	**2117.00**
WRD: 2.39.	Providing and constructing **900 mm thick transition m^3 filter media** behind rockfill **using sand, 80mm to 20 mm and 20 mm down** clean, hard, graded aggregates from approved source satisfying specified filter criteria in layers of 300 mm thickness each including cost of all materials, machinery, labour, laying each layer to required slope, compacting and all other ancillary operations as per specifications and approved drawings.	**m^3**	**1942.00**
WRD: 2.40.	Providing and constructing **600 mm thick hand packed rough stone revetment** with 650 to 750 mm long through stones at 1.50 m c / c over **450 mm thick graded filter media** backing consisting of sand, 10 mm down and 40 mm down approved clean, hard, graded aggregates laid in layers of 150 mm thick each including cost of all materials for revetment and filter, machinery, labour, laying to required slopes as per approved drawings, packing and wedging with stone chips, finishing surface and all other ancillary operations complete.	**m^2**	**1772.00**
WRD: 2.41.	Providing and constructing **600 mm thick hand packed rough stone revetment** with 650 to 750 mm long through stones at 1.50 m c / c over **600 mm thick graded filter media** backing consisting of sand, 10 mm down and 40 mm down approved clean, hard, graded aggregates laid in layers of 200 mm thick each including cost of all materials for revetment and filter, machinery, labour, laying to required slopes as per approved drawings, packing and wedging with stone chips, finishing surface and all other ancillary operations complete.	**m^2**	**2066.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 2.42.	Providing and constructing **hand packed rough stone riprap over 450 mm thick graded filter media** backing consisting of sand, 10 mm down and 40 mm down approved clean, hard, graded aggregates laid in layers of 150 mm thick each including cost of all materials for riprap and filter media, machinery, labour, laying to required slopes as per approved drawings, packing and wedging with stone chips and all other ancillary operations complete.		
2.42.1	**600 mm riprap with 450mm filter**	**m^2**	**1702.00**
2.42.2	**750 mm riprap with 450mm filter**	**m^2**	**1902.00**
2.42.3	**900 mm riprap with 450mm filter**	**m^2**	**2116.00**

Chapter - WRD : 3

CANAL AND ALLIED WORKS

Sl. No.	Specification	Unit	Rate ₹
	EXCAVATION WORKS:		
WRD: 3.1.	Excavation in **hard rock of all toughness** including boulders above 0.6 m diameter (0.113 m^3) for canals, cut-off trench of embankments, filter / catch water drains and other appurtenent structures **by approved controlled blasting** methods including control of vibrations by use of delay detonators and control of fly-rocks by muffling arrangements and adopting only jack hammers for drilling holes and minimising damage to side slopes of canal in water prism area by adopting any one or combination of line drilling / pre-splitting / smooth blasting techniques including cost of all materials, machinery, labour, placing excavated rock neatly in approved dump area as directed and all other ancillary operations complete (Organisation specific). **Note:** For depth of cut exceeding 8 m from ground level increase the basic rate by 5 percent for the quantity of excavation beyond 18 m depth.	**m^3**	**877.00**
	EMBANKMENT WORKS USING BORROW AREA SOIL :		
WRD: 3.2.	Providing **hearting embankment using selected impervious approved soil from borrow areas** in layers of 250 to 300 mm (before compaction) including cost of all materials,machinery, labour,all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.	**m^3**	**513.00**
WRD: 3.3.	Providing **casing embankment using semi-pervious / pervious approved soil from borrow areas** in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to d**ensity control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.	**m^3**	**629.00**
WRD: 3.4.	Providing **hearting / casing embankment using homogeneous approved soil from borrow areas** in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.	**m^3**	**612.00**
	EMBANKMENT WORKS USING DUMP AREA SOIL :		
WRD: 3.5.	Providing **hearting embankment using selected impervious soil from dump areas** in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour,all other operations	**m^3**	**259.00**

Sl. No.	Specification	Unit	Rate ₹
	such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.		
WRD: 3.6.	Providing **casing embankment using semi-pervious / pervious soil from dump areas** in layers of 250 to 300 mm (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.	**m^3**	**225.00**
	EMBANKMENT WORKS USING EXCAVATED SOIL :		
WRD: 3.7.	Providing **hearting embankment using impervious soil collected in embankment area** in heaps as part of disposal of excavated soil from canal in layers of 250 to 300 mm thickness (before compaction), including cost of all materials, machinery, labour, all other operations such as spreading soil in layer of specified thickness, sorting-out, breaking clods, levelling, sectioning edges / sides, watering , compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller and all other ancillary operations complete.	**m^3**	**168.00**
WRD: 3.8.	Providing **casing embankment using semi-pervious / pervious soil collected in embankment area** in heaps as part of disposal of excavated soil from canal in layer of 250 to 300 mm (before compaction) including cost of all materials,machinery, labour,all other operations such as spreading soil in layer of specified thickness, sorting-out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated by power roller and all other ancillary operations complete.	**m^3**	**132.00**
WRD: 3.9.	Providing **compacted embankment for field irrigation channels with gravelly soil from approved borrow area** in layers of 100 to 150 mm thickness (before compaction) including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading in layer of specified thickness, sorting-out, breaking clods, levelling, watering, compacting as directed, dressing sides to required slope and all other ancillary operations complete.	**m^3**	**489.00**
	FOUNDATION FILLING WORKS :		
WRD: 3.10.	Providing **rubble and sand filling** in layers of 250 to 300 mm including cost of all materials,machinery, labour, watering, ramming and all other ancillary operations complete.	**m^3**	**2100.00**
WRD: 3.11.	Providing **rubble and murum filling** in layers of 250 to 300 mm including cost of all materials,machinery, labour, watering, ramming and all other ancillary operations complete.	**m^3**	**1505.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.12.	Providing and laying **250 mm thick sand blanket** below embankment including cost of all materials, machinery, labour, spreading to specified thickness and all other ancillary operations complete.	**m^2**	**496.00**
WRD: 3.13.	Providing and constructing **dry rubble rock-toe** using rubble and stone chips from approved source including cost of all materials, machinery, labour, hand packing rubble and stone chips, finishing top and sides to required slopes and all other ancillary operations complete.	**m^3**	**1387.00**
WRD: 3.14.	Providing and constructing **longitudinal and cross graded filter drains** using sand and 20 mm down approved clean, hard, graded aggregates satisfying specified filter criteria in layers of specified thickness including cost of all materials, machinery, labour, laying to required slopes, compaction and all other ancillary operations complete as per specifications and approved drawings.	**m^3**	**2068.00**
WRD: 3.15.	Providing and constructing 500 mm thick **vertical or inclined graded filter media** consisting of 150 mm thick sand layers and 200 mm thick 20 mm down coarse aggregate layer using approved materials satisfying specified filter criteria including cost of all materials, machinery, labour, laying to specified slope, compaction and all other ancillary operations complete as per specifications and approved drawings.	**m^3**	**2039.00**
WRD: 3.16.	Providing and constructing **graded filter media below and behind rock toe** consisting of 200 mm thick sand, 150 mm thick 20 mm down and 150 mm thick 40 mm down clean, hard, graded coarse aggregate layers satisfying specified filter criteria behind rock-toe and 150 mm thick sand, 200 mm thick 20 mm down and 650 mm thick 40 mm down clean, hard, graded coarse aggregate layers satisfying specified filter criteria below rock-toe including cost of all materials, machinery, labour, laying to specified thickness and slope, compaction and all other ancillary operations complete as per specifications and approved drawings.	**m^3**	**1921.00**
WRD: 3.17.	Providing and laying **filter media for embankment** consisting of 2 layers of poly-propylene **non-woven filter fabric** and **200 mm thick 20 mm and down** approved clean, hard, graded coarse aggregate layer between filter fabric layers for embankment including cost of all materials, machinery, labour, foming toe-drain and all other ancillary operations complete.		
3.17.1	**Using 200 gsm filter fabric.**	**m^2**	**966.00**
3.17.2	**Using 250 gsm filter fabric.**	**m^2**	**990.00**
	ROCK FILL WORKS :		
WRD: 3.18.	Providing and constructing **rockfill casing** to canal embankment **using** graded **stones and spalls source** including cost of all materials, machinery, labour, spreading stones and spalls in layers, hand packing, wedging, finishing surface to required slopes and all other ancillary operations complete.	**m^3**	**1271.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.19.	Providing and constructing **rockfill casing** to canal embankment **using** graded **stones and spalls available in dump yard** including cost of all materials, machinery,labour, spreading stones and spalls in layers, hand packing, wedging, finishing surface to required slopes and all other ancillary operations complete. **Note:** Stones and spalls available in dump yard will be issued at specified issue rate in dump yard.	**m^3**	**717.00**
	CANAL LINING WORKS :		
WRD: 3.20.	Providing **cohesive non-swelling (CNS) soil** lining to canals **using soil from borrow area** including cost of all materials, labour, machinery, spreading soil in layers of thickness not more than 150 mm, breaking clods, levelling, watering, compacting to **density control of not less than 95 percent** or as stipulated, dressing to required profile and all other ancillary operations complete.	**m^3**	**725.00**
WRD: 3.21.	Providing **cohesive non-swelling (CNS) soil** lining to canals **using soil collected in heaps** along the edge of canal requiring CNS soil lining as part of the disposal of excavated soil from canal excavation in CNS soil reach including cost of all machinery, labour, spreading in layers of thickness not more than 150 mm, breaking clods, levelling, watering, compacting to **density control of not less than 95 percent** or as stipulated, dressing to required profile and all other ancillary operations complete.	**m^3**	**236.00**
WRD: 3.22.	Providing and **fixing** 200 x 200 x 750 mm size top surface neatly **dressed canal bed level stone** including cost of all materials, labour, excavation, fixing in position to correct level and all other ancillary operations complete.	**each**	**163.00**
	CONCRETE WORKS :		
WRD: 3.23.1.	Providing and laying **80 mm thick in-situ M-15 grade cement concrete using 20 mm down** approved, clean, hard, graded aggregates for **canal lining** deploying batching plant, transit mixer and vibratory cylinder type mechanical paver including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, forming contraction joints, fixing PVC joint sealing strips, finishing, curing, shifting of paver from one side to other side of canal with all other ancillary operations complete.	**m^2**	**696.00**
WRD: 3.23.2.	Providing and laying **100 mm thick in-situ M-15 grade cement concrete using 20 mm down** approved, clean, hard, graded aggregates for **canal lining** deploying batching plant, transit mixer and vibratory cylinder type mechanical paver including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, forming contraction joints, fixing PVC joint sealing strips, finishing, curing, shifting of paver from one side to other side of canal with all other ancillary operations complete.	**m^2**	**835.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.24.1.	Providing and laying **80 mm thick in-situ M-20 grade cement concrete using 20 mm down** approved, clean, hard, graded aggregates for **canal lining** deploying batching plant, transit mixer and vibratory cylinder type mechanical paver including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, forming contraction joints, fixing PVC joint sealing strips,finishing, curing, shifting of paver from one side to other side of canal with all other ancillary operations complete.	**m^2**	**742.00**
WRD: 3.24.2.	Providing and laying **100 mm thick in-situ M-20 grade cement concrete using 20 mm down** approved, clean, hard, graded aggregates for **canal lining** deploying batching plant, transit mixer and vibratory cylinder type mechanical paver including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, forming contraction joints, fixing PVC joint sealing strips, finishing, curing, shifting of paver from one side to other side of canal with all other ancillary operations complete.	**m^2**	**885.00**
WRD: 3.25.	**Dismantling, shifting and re-erecting mechanical concrete paver and DG set** with all accessories across canal CD work or such other locations where dismantling, shifting, re-erecting and aligning of paver is necessary for continuing further canal lining work including cost of all materials, machinery, labour and all other ancillary operations complete. **Note:** The rate under this item shall not be considered for local shifting of paver from one side to other side of canal. The cost of local shifting of paver is included in concrete lining rates under item No. 3.23.1, 3.23.2, 3.24.1 and 3.24.2	**each shifting**	**13127.00**
WRD: 3.26.1.	Providing and laying insitu vibrated **M-15 grade cement concrete using 20 mm down approved, clean, hard, graded aggregates for side lining of canal** including cost of all materials, machinery, labour,cleaning, batching, mixing, formwork, supports, placing in position, levelling, vibrating, finishing junction of bed and sides to required curvature, finishing side slopes, curing with all other ancillary operations complete.	**m^3**	**8275.00**
WRD: 3.26.2	Providing and laying insitu vibrated **M-20 grade cement concrete using 20 mm down approved, clean, hard, graded aggregates for side lining of canal** including cost of all materials, machinery, labour, cleaning, batching, mixing, supports, placing in position, levelling, vibrating, finishing junction of bed and sidesto required curvature, finishing side slopes, curing with all other ancillary operations complete.	**m^3**	**9057.00**
WRD: 3.27.	Providing and laying insitu vibrated **M-15 grade cement concrete using 40 mm down** approved, clean, hard, graded aggregates **for bed lining of canal** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6066.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.28.	Providing and laying insitu vibrated **M-20 grade cement concrete** using 40 mm down approved, clean, hard, graded aggregates **for bed lining of canal** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6178.00**
WRD: 3.29.	Providing and **fixing GI pressure relief pipe with one end closed** by perforated GI plate and other end provided with alluminium lid hinged to pipe including cost of all materials, labour, drilling 8 mm dia holes and all other ancillary operations complete.		
3.29.1	**50 mm diameter and 125 mm long**	**each**	**202.00**
3.29.2	**50 mm diameter and 225 mm long**	**each**	**253.00**
3.29.3	**50 mm diameter and 300 mm long**	**each**	**301.00**
3.29.4	**50 mm diameter and 450 mm long**	**each**	**378.00**
3.29.5	**50 mm diameter and 750 mm long**	**each**	**524.00**
WRD: 3.30.	**Drilling 1.00 m deep 32 mm dia pressure relief hole** below pressure relief pipe for **bed / side lining** of canal laid on rock including cost of all materials, machinery, labour and all other ancillary operations complete.	**each**	**332.00**
WRD: 3.31.	Providing and forming **350x 350 x 400 mm deep filter drain** consisting of 75 mm thick 10 mm down coarse aggregate layer **around pressure relief pipe** and 75 mm thick sand layer around coarse aggregate layer including cost of all materials, labour, excavation of pit and all other ancillary operations complete.	**each**	**102.00**
WRD: 3.32.	F**ixing** 25 to 40 mm thick **Shahabad / Talikota / other similar stone slabs** with pointing **in CM 1:3 proportion** by volume **for canal / field channel lining** including cost of all materials (excluding stone slabs), labour, preparing surface, cutting slabs to required size, batching and mixing mortar, packing mortar into joints and flush finishing joints neatly, curing and all other ancillary operations complete.	**m^2**	**157.00**
WRD: 3.33.	**Fixing PCC slabs of various sizes in CM 1 : 3 proportion** by volume **to side slopes of canal** including cost of all materials (excluding PCC slabs), labour, preparing surface, batching and mixing mortar, packing mortar into joints and flush finishing joints neatly, curing and all other ancillary operations complete.	**m^2**	**136.00**
WRD: 3.34.	**Fixing PCC lug slabs of various sizes in CM 1 : 3** proportion by volume for supporting PCC slab lining including cost of all materials (excluding PCC lug slabs), labour, necessary excavation, refilling, batching and mixing mortar, packing mortar into joints and flush finishing joints, curing and all other ancillary operations complete.	**m**	**80.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.35.	Fixing 300 mm height **pre-cast drop for field channel** as directed including excavation and refilling to the extent necessary and all other ancillary operations complete.	**each**	**313.00**
WRD: 3.36.	Providing and fixing **LDPE sheet** for bed and sides of canal including cost of all materials, labour, laying and joining as per specifications and all other ancillary operations complete.		
3.36.1	**Using 500 micron thick LDPE sheet.**	**m^2**	**181.00**
3.36.2	**Using 750 micron thick LDPE sheet.**	**m^2**	**262.00**
3.36.3	**Using 1000 micron thick LDPE sheet.**	**m^2**	**344.00**
	Note: 1. If the surface on which the LDPE sheet is to be laid is too rough and undulating, provide average 75 mm thick unscreened sand backing to LDPE sheet. 2. For providing 75 mm thick unscreened sand backing, add ₹ 155/ m^2		
WRD: 3.37.	Providing and **fixing tarfelt expansion joint filler board** for cement concrete lining of canal including cost of all materials, labour and all other ancillary operations complete.		
3.37.1	**20 mm thick 80 mm depth**	**m**	**72.00**
3.37.2	**20 mm thick 100 mm depth**	**m**	**86.00**
3.37.3	**20 mm thick 150 mm depth**	**m**	**122.00**
WRD: 3.38.	**Manufacturing PCC lining/lug slabs in M-15 grade 20 mm down** approved, clean, hard, graded aggregates including cost of all materials, machinery, labour, formwork, batching, mixing, laying, compacting, finishing, curing and all other ancillary operations complete.		
3.38.1	**550 x 550 x 55 mm size lining slab**	**each**	**138.00**
3.38.2	**550 x 300 x 55 mm size lug slab**	**each**	**99.00**
WRD: 3.39.	**Manufacturing PCC lining/ lug slabs in M-15 grade** cement concrete using **10 mm down** approved, clean, hard, graded aggregates including cost of all materials, machinery, labour, formwork, batching, mixing, laying, compacting, finishing, curing and all other ancillary operations complete.		
3.39.1	**450 x 300 x 30 mm size lining slab**	**each**	**57.00**
3.39.2	**450 x 150 x 30 mm size lug slab**	**each**	**45.00**
3.39.3	**400 x 400 x 30 mm size lining slab**	**each**	**61.00**
3.39.4	**400 x 150 x 30 mm size lug slab**	**each**	**44.00**

Sl. No.	Specification	Unit	Rate ₹
	MASONRY AND PITCHING WORKS :		
WRD: 3.40.	Providing and constructing **uncoursed rubble stone masonry in CM 1:5** proportion by volume **for canal side lining** using stones and stone chips including cost of all materials, machinery, labour, batching and mixing mortar, packing mortar into joints, wedging stone chips, foming weep holes at specified interval, finishing, curing and all other ancillary operations complete.		
3.40.1	From approved quarry	**m^3**	**3914.00**
3.40.2	From canal excavation	**m^3**	**3481.00**
WRD: 3.41.	Providing and constructing **dry rubble stone pitching** with pin headers at 2 per m^2 using stones and stone chips from approved source including cost of all materials, labour, hand packing / wedging stone chips, finishing and all other ancillary operations complete.		
3.41.1	250mm thick	**m^2**	**404.00**
3.41.2	300mm thick	**m^2**	**455.00**
	Note: If 150 mm thick **murum bed** is to be provided below pitching, add ₹ 93.00 / m^2		
WRD: 3.42.	Providing and constructing **450 mm thick size stone pitching** with using 200 to 250mm size stones with pin headers at 2 per m^2 using stones and stone chips from approved source including cost of all materials, labour, hand packing /wedging stone chips, finishing and all other ancillary operations complete. **Note**: If 150 mm thick **murum bed** is to be provided below pitching, add ₹ 93.00 / m^2	**m^2**	**649.00**
WRD: 3.43.	Providing and constructing **300 mm thick rubble stone pitching** set **in CM 1: 5** proportion by volume with pin headers at 2 per m^2 including cost of all materials from approved source, labour, packing stone chips and mortar into joints, finishing, curing and all other ancillary operations complete. **Note:** If 150 mm thick **murum bed** is to be provided below pitching, add ₹ 93.00 / m^2	**m^2**	**953.00**
WRD: 3.44.	Providing and constructing **dry size stone pitching** using 200 to 250 mm size stones with pin headers at 2 per m^2 using stones and stone chips from approved source including cost of all materials, labour, hand packing / wedging stone chips into joints, finishing and all other ancillary operations complete.		
3.44.1	**300 mm thick**	**m^2**	**388.00**
3.44.2	**450 mm thick**	**m^2**	**468.00**
	Note: If 150 mm thick **murum bed** is to be provided below pitching, add ₹ 93.00 / m^2		

Sl. No.	Specification	Unit	Rate ₹
WRD: 3.45.	Providing and constructing **size stone pitching** using 200 to 250 mm size stones with pin headers at 2 per m^2 set **in CM 1 : 5** proportion by volume with pointing **joints in CM 1 : 3** proportion by volume including cost of all materials from approved source, labour, packing stone chips and mortar into joints,finishing,curing and all other ancillary operations complete.		
3.45.1	**300 mm thick**	**m^2**	**850.00**
3.45.2	**450 mm thick**	**m^2**	**1102.00**
	Note: If 150 mm thick **murum bed** is to be provided below pitching, add ₹ 93/ m^2		
	CADA WORKS		
WRD 3.46	Providing & installing at site of work **Perforated corrugated PVC** pipes conforming to IS 9271 with prewrapped 250gsm. Geosynthetic filter material by laser guided trencher machine/by mechanical means including cost of pipe, filter material, pipe accessories and all taxes including all other ancillary operations complete and labour charges only for installation of site at work perforated corrugated PVC pipes including lowering into trenches, laying true to lines, level land and perfect leak proof linking at joints, fittings pipes accessories including the refilling the trench 50 cm around the pipe with gravel or selected earth available from the excavation and all other ancillary operations complete.		
3.46.1	80mm dia.	**m**	**294.00**
3.46.2	100mm dia	**m**	**354.00**

Chapter - WRD : 4

CANAL CROSS DRAINAGE WORKS

Sl. No.	Specification	Unit	Rate ₹
	EXCAVATION & FOUNDATION TREATMENT WORKS :		
WRD: 4.1	Excavation in **hard rock of all toughness** including boulders above 0.6 m dia. (0.113 m^3) **by** approved **controlled blasting methods for foundations of canal cross drainage** and other appurtenant structures for control of vibrations and by making muffling arrangements for control of fly-rock and by adopting any one or combination of line drilling / pre-splitting / smooth blasting techniques to minimise damage to rock beyond excavation line and placing the excavated hard rock neatly in approved dump area as directed including cost of all materials, machinery, labour and all other ancillary operations complete. (Organisation specific)	**m^3**	**983.00**
WRD: 4.2.	Providing and fixing 25 mm dia 2.50 m long cold twisted defomed steel **anchor rod** with 1.25 m length driven into 38 mm dia hole drilled in bed rock and remaining length embedded in concrete / masonry including cost of all materials, machinery, labour, drilling and cleaning hole, filling hole with thick cement slurry, driving anchor rod and all other ancillary operations complete.	**each**	**1250.00**
	CEMENT CONCRETE WORKS		
WRD: 4.3.	Providing and laying insitu vibrated **M-15** grade cement concrete using **80 mm down approved, clean, hard, graded aggregates for foundation filling** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**5704.00**
WRD: 4.4.	Providing and laying insitu vibrated **M-10 grade cement concrete using 80 mm down approved, clean, hard, graded aggregates for foundation filling** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**5559.00**
WRD: 4.5.	Providing and laying insitu vibrated **M-20** grade cement concrete using **40 mm down approved, clean, hard, graded aggregates for well steining** including cost of all materials, machinery, labour,cleaning, batching, mixing, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6033.00**
WRD: 4.6.	Providing and laying insitu vibrated **M-15** grade cement concrete using **40 mm down approved, clean, hard, graded aggregates for well top plug** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete.	**m^3**	**6066.00**
WRD: 4.7.	Providing and laying insitu vibrated **M-15grade cement concrete using 40 mm down approved, clean, hard, graded aggregates with** placing and sinking plums of size 150 to 80 mm upto 15 percent for **piers/ gravity type retaining walls / abutments / other similar structures** including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing with all other ancillary operations complete .	**m^3**	**6339.00**

Sl. No.	Specification	Unit	Rate ₹
	MASONRY WORKS :		
WRD: 4.8.	Providing and constructing **un-coursed rubble stone masonry** with approved stones **in CM 1 : 4** proportion by volume portions of **return walls/ abutments/ similar structure** including cost of all materials, labour, cleaning, batching and mixing mortar, packing mortar and wedging stone chips into joints, finishing, curing and all other ancillary operations complete.		
4.8.1	**for sub-structure** **Note:** For every 1.5 m additional depth below 1.5 m from surface, add ₹ 51.00 / m^3	**m^3**	**4313.00**
4.8.2	**for super-structure** **Note:** For every 1.5 m additional lift beyond 1.5 m from surface, add ₹ 102.00 / m^3	**m^3**	**4452.00**
WRD: 4.9.	Providing and constructing **coursed rubble (size stone) face stone masonry in CM 1 : 4** proportion by volume with stones from approved source including cost of all materials, machinery, labour, ramps,cleaning, batching and mixing mortar, packing mortar and wedging stone chips into joints, finishing, curing and all other ancillary operations **complete with all leads and lifts upto 1.5 m.**		
4.9.1	**Second sort** **Note:** For every 1.5 m additional lift beyond 1.5 m from surface, add ₹ 102.00 / m^3	**m^3**	**4516.00**
4.9.2	**First sort** **Note:** For every 1.5 m additional lift beyond 1.5 m from surface, add ₹ 102.00 / m^3	**m^3**	**4736.00**
WRD: 4.10.	Providing **cement mortar pointing** to coursed rubble (size stone) face stone masonry **in CM 1 : 2** proportion by volume including cost of all materials, labour, raking and cleaning joints for 50 mm depth, batching and mixing mortar, pressing mortar into joints, finishing, curing and all other ancillary operations complete.	**m^2**	**193.00**
	COPING & RAILING WORKS :		
WRD: 4.11.	Providing and **fixing** 100 mm thick **burnt stone slabs for coping set in CM 1 : 6** proportion by volume **with pointing** to joints **in CM 1 : 3** proportion by volume including cost of all materials, labour, batching and mixing mortar, finishing, curing and all other ancillary operations complete.		
4.11.1	**Roughly dressed**	**m^2**	**1005.00**
4.11.2	**One line dressed burnt stone slabs**	**m^2**	**1225.00**
4.11.3	**Two line dressed burnt stone slabs**	**m^2**	**1519.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 4.12.	Providing and constructing **protective railing** consisting of **cast in-situ railing posts** of size 150 x 150 mm at bottom, 100 x 100 mm at top and 750 mm height, placed approximately at 2 m centre to centre **in M-20 grade cement concrete** using **20 mm** down approved clean, hard, graded aggregates with each post reinforced by 4 numbers 8 mm dia. main bars embedded in kerb concrete for 400 mm depth and 5 numbers 6 mm dia. stirrups and fixing 3 rows of 40 mm dia. GI pipes with two coats of synthetic enamel painting over a coat of red oxide primer paint including cost of all materials, machinery, labour, formwork, supports, fabricating and placing reinforcement bars, batching, mixing, placing in position, compacting, finishing, curing and all other ancillary operations complete.	**m**	**1694.00**
	HUME PIPE LAYING & JOINTING WORKS :		
WRD: 4.13.	**Laying and jointing NP- 2 class hume pipes in CM 1 : 2** proportion by volume including cost of all materials (excluding pipes and collars), labour, aligning pipes, batching and mixing mortar, packing joints with hemp and mortar, finishing, curing and all other ancillary operations complete.		
4.13.1	**300 mm dia.**	**Joint**	**535.00**
4.13.2	**450 mm dia.**	**Joint**	**619.00**
4.13.3	**600 mm dia.**	**Joint**	**798.00**
4.13.4	**700 mm dia.**	**Joint**	**868.00**
4.13.5	**800 mm dia.**	**Joint**	**1052.00**
4.13.6	**900 mm dia.**	**Joint**	**1102.00**
4.13.7	**1000 mm dia.**	**Joint**	**1223.00**
4.13.8	**1100 mm dia.**	**Joint**	**1300.00**
4.13.9	**1200 mm dia.**	**Joint**	**1541.00**
	BACK FILLING & OTHER WORKS :		
WRD: 4.14.	**Providing rubble / boulder and sand filling** behind abutment and return walls in layers including cost of all materials, labour, watering, ramming and all other ancillary operations complete.	**m^3**	**2207.00**
WRD: 4.15.	Providing and **filling murrum / gravelly soil** (CNS soil) **for foundation or around pipes** including cost of all materials, labour, spreading soil in layers of 100 to 150 mm, breaking clods, watering, compaction by earth masters to achieve density control of not less than 90 percent and all other ancillary operations complete.	**m^3**	**820.00**
WRD: 4.16.	Providing and **filling murrum / gravelly soil** (CNS soil) **above pipes** including cost of all materials, labour, spreading soil in layers of 100 to 150 mm, breaking clods, watering, compaction by power roller to achieve density control of not less than 95 percent and all other ancillary operations complete.	**m^3**	**574.00**

Chapter - WRD : 5

TUNNEL AND ALLIED WORKS

Sl. No.	Specification	Unit	Rate ₹
	EXCAVATION WORKS :		
WRD: 5.1.	**Excavation for adit** by tunnelling methods in all types of rock including cost of all materials, machinery, labour, ventilation, lighting, drainage, scaling excavated surface, removing and hauling excavated muck outside adit upto specified dump area and all other ancillary operations complete.	**m^3**	**1992.00**
WRD: 5.2.	**Excavation for vertical / inclined shaft** in all types of soft / hard rock including cost of all materials, machinery, labour, ventilation, lighting, drainage, scaling excavated surface, removing and hauling excavated muck outside shaft upto specified dump area and all other ancillary operations complete.	**m^3**	**2838.00**
WRD: 5.3.	**Excavation for tunnel** by tunnelling methods **in rock not requiring supports** including cost of all materials, machinery, labour, ventilation, lighting, drainage, scaling excavated surface, removing under-cuts, removing and hauling excavated muck outside tunnel upto specified dump area and all other ancillary operations complete. **Note:** Where mucking is to be carried out through vertical or inclined shaft using winch and mucking tub arrangement increase the basic rate per m^3 by 8.00 percent.	**m^3**	**2138.00**
WRD: 5.4.	**Excavation for tunnel** by tunnelling methods including excavation for supports in all types of soil / rock strata **requiring supports** (excluding cost of providing supports) including cost of all other materials,labour, machinery,ventilation, lighting, drainage, scaling excavated surface, removing and hauling excavated muck outside tunnel upto specified dump area and all other ancillary operations complete. **Note:** Where mucking is to be carried out through vertical or inclined shaft using winch and mucking tub arrangement increase the basic rate per m^3 by 8.00 percent.	**m^3**	**2224.00**
WRD: 5.5.	**Excavation for tunnel by heading and benching** method of tunnelling including excavation for supports in all types of soil/rock strata **requiring supports** (excluding cost of providing supports) for roof portion before benching including cost of all other materials, machinery, labour, ventilation, lighting, drainage, scaling excavated surface, removing and hauling excavated muck outside tunnel upto specified dump area and all other ancillary operations complete. **Note: 1.** Where mucking is to be carried out through vertical or inclined shaft using winch and mucking tub arrangement increase the basic rate per m^3 by 8.00 percent. **2**. Add 10% extra in case of use of temporary structural steel supports wherever required.	**m^3**	**2366.00**
WRD: 5.6	**Removing and hauling muck overfallen** due to natural causes such as geological faults out of tunnel including cost of all materials, machinery, labour, ventilation, drainage, lighting, breaking any large rock fragments if necessary by blasting with all other ancillary operations and disposing off the same in specified dump area or as directed complete.	**m^3**	**384.00**

Sl. No.	Specification	Unit	Rate ₹
	DEWATERING & GUNITING WORKS :		
WRD: 5.7	**Dewatering tunnel** by pumping out water collected by natural drainage inside tunnel including cost of all materials, machinery, labour,ventilation, lighting, drainage, providing sump and all other ancillary operations wherever necessary complete.	**kwhr**	**36.00**
WRD: 5.8	Providing **25 mm thick guniting to sides and arch of tunnel in CM 1 : 3** proportion by weight including cost of all materials, machinery, labour, ventilation, lighting, drainage and all other ancillary operations and all other ancillary operations complete.	**m^2**	**728.00**
	TEMPORARY & PERMANENT SUPPORTS :		
WRD: 5.9	Providing and fixing 25 mm dia. **steel rock bolts** with **one end** provided with **mechanical / wedge type anchorage** and **other end** provided **with threads** for fixing washers and nuts including cost of all materials, machinery,labour, ventilation, lighting, drainage, drilling 32 mm dia holes, providing 150 mm long 20 mm thick steel tapered wedge, providing 10 mm thick and 200 x 200 mm size plate washer and nuts, driving bolt, fixing washers and nuts, tightening bolt by torque wrench and all other ancillary operations complete.	**m**	**1283.00**
WRD: 5.10	Providing and fixing 25 mm diameter **steel rock bolts with resin bond cement capsule anchorage** including cost of all materials, machinery, labour, ventilation, lighting, drainage, drilling 32 mm dia holes, threading one end of bolt for fixing nuts, inserting grout capsule, driving bolt, fixing 10 mm thick 200 x 200 mm size plate washers and nuts, tightening the nuts by torque wrench after hardening of cement grout, and all other ancillary operations complete.	**m**	**1274.00**
WRD: 5.11	Providing, fabricating and fixing in position **pemanent structural steel supports** as per details including cost of all materials, machinery, labour, cutting, bending, welding, grinding, ventilation, lighting, drainage and all other ancillary operations complete.	**t**	**18850.00**
WRD: 5.12	**Providing and fixing** hard variety **cut jungle wood for lagging /** blocking locations in tunnel wherever required including cost of all materials, machinery, labour, ventilation, lighting, drainage, fixing in position and all other ancillary operations complete.	**m^3**	**44446.00**
	MASONRY WORKS :		
WRD: 5.13	Providing and constructing **un-coursed rubble stone masonry** using approved stones from tunnel excavated muck **in CM 1 : 6** proportion by volume for **back-filling over cuts / slips** on tunnel sides due to geological faults including cost of all materials, machinery, labour, ventilation, lighting, drainage, cleaning, batching and mixing mortar, packing mortar and wedging stone chips into joints, curing, and all other ancillary operations complete.	**m^3**	**3754.00**

Sl. No.	Specification	Unit	Rate ₹
	CONCRETE WORKS : (Shall be read along with the note regarding additionalites for formwork in the Appendix)		
WRD: 5.14	Providing and laying insitu vibrated **M-10 grade cement concrete using 40 mm down approved, clean, hard, graded aggregates** crushed from tunnel excavated rock for filling and levelling over-cuts in bed due to geological faults etc., including cost of all materials, machinery, labour, ventilation, lighting, drainage, cleaning bed, batching and mixing concrete, conveying upto placing point in agitator car, placing in position, levelling, compacting, finishing, curing, and all other ancillary operations complete. **Note:** Rubble stones and stone chips from tunnel excavation for crushing coarse aggregate shall be issued at dump yard at specified issue rates.	**m^3**	**5998.00**
WRD: 5.15	Providing and laying insitu vibrated **M-20 grade cement concrete using 40 mm down approved clean, hard, graded aggregates** crushed from tunnel excavated rock for kerb and bed lining including cost of all materials, machinery, labour, ventilation, lighting, drainage, batching and mixing concrete, conveying upto placing point in agitator cars, placing in position, levelling, vibrating, finishing, curing, and all other ancillary operations complete. **Note:** Rubble stones and stone chips from tunnel excavation for crushing coarse aggregate shall be issued at dump yard at specified issue rates.	**m^3**	**6682.00**
WRD: 5.16	Providing and laying insitu vibrated **M-20 grade cement concrete using 40 mm down approved clean, hard, graded aggregates** crushed from tunnel excavated rock for sides and arch lining including cost of all materials, machinery, labour, ventilation, lighting, drainage, rail mounted shuttering gantry, batching and mixing concrete, conveying upto placing point in agitator car, placing in position using placerpump, levelling, vibrating, finishing, curing and all other ancillary operations complete.	**m^3**	**8384.00**
	DRILLING & GROUTING WORKS :		
WRD: 5.17	**Drilling** 35 mm diameter **grout holes** in concrete / rock by percussion drilling using jack hammer or stooper drills as directed to specified depth **for consolidation / contact grouting** including cost of all materials, machinery, labour, ventilation, lighting, drainage, cleaning holes, and all other ancillary operations and all other ancillary operations complete.	**m**	**410.00**
WRD: 5.18	**Drilling** 75 mm diameter **drainage holes** vertical or inclined in rock / concrete in tunnel by percussion drilling using waggon drill or other suitable drilling equipment including cost of all materials, machinery, labour, ventilation, lighting, drainage and all other ancillary operations complete.	**m**	**487.00**

Chapter - WRD : 6

GATES / HOISTS AND ALLIED WORKS

WRD: 6. GATES / HOISTS AND ALLIED WORKS

NOTES ON BASIC RATES

1. All materials / bought out components for embedded parts, gates, hoists and allied works shall conform to relevant Indian Standards / Technical specifications and approved drawings.
2. The basic rates are inclusive of preparation of designs / drawings / bill of materials as per specifications and other technical data including revisions.
3. The basic rates are inclusive of cost of all materials, machinery, labour, fabrication, erection, commissioning and testing of gates, hoists and other related components as per technical specifications.
4. The basic rates are inclusive of taxes, duties, levies and all other incidental charges except GST. Separate provision shall be made in the estimate towards GST at the rate prevailing at the time of preparation of estimate.
5. Unless otherwise specified the basic rates are inclusive of standard finish required for all the fabricated and bought out gate and hoist components.
6. The basic rates are inclusive of preparatory works such as rectification of damages, repairing shop painting, cleaning, positioning and anchoring first stage embedments, cleaning surface for field painting etc.
7. The basic rates are exclusive of cost of river diversion, dewatering, desilting etc.,
8. Unless otherwise specified , the basic rates for all items are on per tonne basis. The rate per set or per number shall be worked out on the basis of rate per tonne and the tonnage computed as per detailed designs or as per empirical formulae furnished in the "Note" under each item.
9. Minimum dry film thickness for zinc rich epoxy primer paint and coal tar epoxy paint shall be 40 microns per coat and 100 microns per coat respectively.
10. The finished rate of items are inclusive of packing and forwarding charges.

Sl. No.	Specification	Unit	Rate ₹
	GATES AND HOISTS FOR DAM :		
WRD: 6.1.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wall plates, seal seats, anchors, anchor girders, yoke girders, tie flats, trunnion supports, rope and pulley supports with all accessories for **spillway radial gates** including cost of all materials, machinery, labour, cutting,aligning,anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 set embedded parts in tonnes = $0.0177 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length in m = Clear distance between piers. (H) is height of radial gate in m = FRL - Sill level + 0.15 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 97.9 % of computed weight of 1 set	**t**	**168100.00**
WRD: 6.2.	Design, fabrication, supply, erection, testing and commissioning of **radial gate** consisting of skin plate, stiffeners, horizontal girders, sector ams, trunnion assemblies, tie beam, pulley supports, bracings, rubber seals, clamps with all accessories for spillway including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of 1 spillway gate in tonnes = $0.0710 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length in m = Clear distance between piers. (H) is height of radial gate in m = FRL - Sill level + 0.15 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 92.5 % of computed weight of 1 gate	**t**	**202700.00**
WRD: 6.3.	Design, fabrication, supply, erection, testing and commissioning of electrically operated **rope drum hoist** of adequate capacity consisting of base frames, rope drums, connecting shaft, gear system, brake system, electric motor, wire ropes, gate position indicator, manual operation arrangement with all accessories for **spillway radial gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, providing hand railing and approach staircase with gate to hoist platfom, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings.	**t capacity**	**51200.00**

Sl. No.	Specification	Unit	Rate ₹
	Note: 1. Hoist capacity in t including 25 % reserve capacity = 1.5 x Wt of gate (Hoist capacity shall be rounded off to next 10 tonne) Weight of hoist with all accessories :175 kg per tonne capacity of hoist. 2. Quantity of structural steel = 39.2 % of computed weight of 1 hoist		
WRD: 6.4.	Design, fabrication, supply, erection and commissioning of 1 metre wide **catwalk connecting spillway piers / abutments at trunnion platfom level** including cost of all materials, machinery, labour, cutting, aligning welding, anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of catwalk : 300 kg per metre length of catwalk. 2. Quantity of structural steel = 95.6 % of computed weight per m length	**m**	**30800.00**
WRD: 6.5.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, slide tracks, seal seats, guide rails, dogging sets for storage of stoplog elements with all accessories f**or spillway stop log gate elements** including cost of all materials, machinery, labour, cutting, aligning, welding, anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 set embedded parts in tonnes = $0.0025 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers + 0.65 m. (H) is total height of stoplog gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level	**t**	**279700.00**
WRD: 6.6.	Design, fabrication, supply, erection, testing and commissioning of **vertical lift sliding type** all interchangeable (except bottom element) **stoplog gate elements** consisting of skin plate, horizontal and vertical girders, stiffeners, lifting pins, bronze padded slide blocks, guide shoes, rubber seals, clamps with all accessories for spillway including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Total wt of 1 set stoplog elements in t = $0.0553 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers + 0.65 m. (H) is total height of stoplog gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 99.3 % of computed weight of 1 set	**t**	**140300.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 6.7.	Design, fabrication, supply, erection, testing and commissioning of automatic **lifting beam** with all accessories for handling, lowering and lifting of **spillway stop log gate elements** including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of lifting beam in tonnes = 0.02212 x (L^2 x H x h)$^{0.716}$ / n Where (L) is length = Clear distance between piers + 0.65 m. (H) is total height of stoplog gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level (n) is number of gate elements in 1 set 2. Quantity of structural steel = 94.1 % of computed weight of 1 No.	**t**	**169200.00**
WRD: 6.8.	Design, fabrication, supply, erection, testing and commissioning of adequate capacity Class - II type **moving gantry crane** consisting of rail mounted gantry frame, top platfom with hand railing, long / cross travel arrangements, rope drums, gear systems, electric motors, electro-magnetic brake system,cabin, control panel, wire rope, ladder, motorised **stop log gate elements** and **river sluice / canal sluice emergency gates** including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel pain and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Capacity of gantry crane in tonnes including 25 % reserve capacity = 2.5 x (Weight of 1 set of stoplog gate / Number of elements). (Hoist capacity shall be rounded off to next 5 tonne) Weight of moving gantry crane : .25 tonne per tonne capacity of gantry. 2. Quantity of structural steel = 70.4 % of computed weight of gantry.	**t capacity**	**282800.00**
WRD: 6.9.	Design, fabrication, supply, erection and commissioning of **rail track** using 45 kg / m standard rails on spillway bridge **for movement of gantry crane** for handling and operating spillway stoplog gate elements / river sluice / canal sluice emergency gate including cost of all materials, machinery, labour, aligning, anchoring, welding, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint for buffers and rail supporting plates and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of gantry track including fixtures : 100 to 105 kg / m of track. (Weight per metre includes rails with fixtures on both sides) 2. Quantity of structural steel = 5.3 % of computed weight of track.	**m**	**9100.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 6.10.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner (upto one vent height plus 1 m above the roof of vent) with all accessories for **river / canal sluice service gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.		
6.10.1	**without groove liner** **Note:** 1. Wt of 1 set embedded parts in tonnes = 0.0444 x (L^2 x H x h)$^{0.659}$ Weight of breast wall lining : 250 kg / m^2 of breast wall Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 85.0 % of computed weight of 1 set.	**t**	**218200.00**
6.10.2	**with groove liner upto breast wall level** **Note:** 1. Wt of 1 set embedded parts in tonnes = 0.0444 x (L^2 x H x h) $^{0.659}$ Weight of breast wall lining : 250 kg / m^2 of breast wall Weight of groove liner : 200 kg / m^2 of groove lining Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 90.5 % of computed weight 1 set.	**t**	**173800.00**
WRD: 6.11.	Design, fabrication, supply, erection and commissioning of **vent liner** using 20 mm thick plates with stiffeners and anchors **for river sluice / canal sluice** vents including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications **and approved drawings.** **Note:** 1. Weight of vent liner including stiffeners /anchors : 200 kg / m^2 area. 2. Quantity of structural steel = 100.0 % of computed weight	**m^2**	**25700.00**
WRD: 6.12.	Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift **service gate** consisting of skin plate, vertical and horizontal girders, wheels, stiffeners, lifting brackets, guide rollers, ballast blocks, teflon cladded rubber seals with all accessories for **river sluice /canal sluice** vent including cost of all materials,machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat	**t**	**147500.00**

Sl. No.	Specification	Unit	Rate ₹
	of zinc rich epoxy primer and three coats cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 gate in tonnes (including ballast) = 0.0888 (L^2 x H x h)$^{0.659}$ Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 47.5 % of computed weight of 1 gate.		
WRD: 6.13.	Design, fabrication, supply, erection, testing and commissioning of adequate capacity **rope drum hoist** consisting of hoist platfom, rope drum, gear system, electric motor, electro-magnetic brake system, hand operation assembly, control panel, wire rope, pulleys, ladder with all accessories **for operating river sluice / canal sluice service gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, applying one coat zinc chromate red oxide primer and three coats of approved synthetic ename paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Capacity of hoist in tonnes including 25 % reserve capacity = 2.5 x Weight of gate including ballast. (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 250 kg per tonne capacity of hoist 2. Quantity of structural steel = 34.0 % of computed weight of 1 hoist.	**t capacity**	**66300.00**
WRD: 6.14.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner upto 1m height above the roof of vent with all accessories for **river / canal sluice emergency gate** including cost of all materials, machinery, labour, cutting, aligning, welding anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.		
6.14.1	**without groove liners** **Note:** 1. Wt of 1 set embedded parts in tonnes = 0.0444 x (L^2 x H x h)$^{0.659}$ Weight of breast wall lining : 250 kg per m^2 of breast wall Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 87.0 % of computed weight of 1 set.	**t**	**232800.00**

Sl. No.	Specification	Unit	Rate ₹
6.14.2	**with groove liner upto breast wall level** **Note**: 1. Wt of 1 set embedded parts in tonnes = 0.0600 x (L^2 x H x h)$^{0.659}$ Weight of breast wall lining : 250 kg / m^2 of breast wall Weight of groove liner : 200 kg / m^2 of groove lining Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 92.7 % of computed weight of 1 set.	**t**	**176200.00**
WRD: 6.15.	Design, fabrication, supply, erection, testing and commissioning of fixed wheel type **vertical lift emergency gate** consisting of skin plate, horizontal and vertical girders, wheels, stiffeners, lifting brackets, guide rollers, ballast blocks, teflon cladded rubber seals with all accessories **for river sluice / canal sluice** vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 gate in tonnes (including ballast) = 0.0888 (L^2 x H x h)$^{0.659}$ Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 46.7 % of computed weight of 1 gate.	**t**	**146600.00**
WRD: 6.16.	Design, fabrication, supply, erection, testing and commissioning of **automatic lifting beam** with all accessories for handling, lowering and lifting of **river sluice / canal sluice emergency gate** including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of lifting beam in tonnes = 0.0090 x (L^2 x H x h)$^{0.659}$ Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 76.3 % of computed weight of 1 beam.	**t**	**226000.00**
	GATES AND HOISTS FOR BARRAGE :		
WRD: 6.17.	Design, fabrication, supply, erection and commissioning of **embedded parts consisting of** sill beam, wheel tracks, seal seats, guide rails with all accessories **for vertical lift barrage gate** including cost of all	**t**	**269900.00**

Sl. No.	Specification	Unit	Rate ₹
	materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 set of embedded parts in tonnes = 0.0055 (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 1 m. (H) is total height of gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 82.3 % of computed weight of 1 set.		
WRD: 6.18.	Design, fabrication, supply, erection, testing and commissioning of **fixed wheel type vertical lift gate** consisting of skin plate, vertical and horizontal girders, wheels, stiffeners, lifting brackets, guide shoes, rubber seals with all accessories for barrage including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of 1 gate in tonnes = 0.0335 (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 1 m. (H) is total height of gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 96.7 % of computed weight of 1 gate.	**t**	**153800.00**
WRD: 6.19.	Design, fabrication, supply, erection and commissioning of **structural steel hoist bridge** consisting of columns, beams, bracings, stiffeners, ties, chequered plate covering, hand railing, ladder with all other accessories **for supporting rope drum hoist for operating barrage gates** including cost of all materials,machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Columns (with bracings/anchors/stiffeners) : 400 kg per metre height Beams (with cross beams / stiffeners) : 400 kg per metre span Railing / Chequered plate / Ladder : 10 % of wt columns / beams Weight proposed includes all columns / beams for 1 hoist. 2. Quantity of structural steel = 97.8 % of computed weight for 1 span.	**t**	**136200.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 6.20.	Design, fabrication, supply, erection, testing and commissioning of adequate capacity rope drum hoist consisting of hoist platfom, rope drums, shafts, pulleys, gear system, electric motor, electro-magnatic brake system, manual operation assembly, gate position indicator, control panel, wire rope with all accessories for operating vertical lift **roller gate for barrage** including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Capacity of hoist in t with 25 % reserve capacity =1.5 x Wt of gate. (Hoist capacity shall be rounded off to next 10 tonne) Weight of hoist with all accessories :100 kg per tonne capacity of hoist 2. Quantity of structural steel = 12.4 % of computed weight for 1 hoist.	**t capacity**	**47900.00**
	AUTOMATIC OUTFLOW REGULATING GATE FOR BARRAGE / ESCAPE:		
WRD: 6.21.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wall plates, seal seats, first stage anchors, anchor girders, anchor bars, trunnion supports with all accessories **for outflow regulating automatic gates** for **barrage/escape** including cost of all all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	**t**	**201100.00**
	Note: 1. Weight of 1 set embedded parts in tonnes = $0.046 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.0 % of computed weight for 1 set.		
WRD: 6.22.	Design, fabrication, supply, erection, testing and commissioning of **automatic outflow regulating gate** and **fulcrum assembly** consisting of skin plate, stiffeners, horizontal girders, trunnion assemblies, gate bracket, base plate, rolling surface assembly, link brackets, linkassembly, rubber seals, seal clamps with all accessories for **barrage / escape** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings.	**t**	**158300.00**

Sl. No.	Specification	Unit	Rate ₹
	Note: 1. Wt of gate & fulcrum assembly in tonnes = 0.1325 x $(L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.2 % of computed weight for 1 gate.		
WRD: 6.23.	Design, fabrication, supply, erection, testing and commissioning of **hoisting cum damping system** consisting of low level horizontal lever link, low level long actuating lever, high level vertical lever link, high level short actuating lever, high level hoisting bracket, axle for lever system, friction shoes, supporting box for shoes, rack assembly, ratchet pawl, supporting structure, bracket plate with all accessories for outflow **regulating automatic gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of hoisting cum damping system in tonnes = 0.0695 x $(L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.2 % of computed weight for 1 gate.	**t**	**215200.00**
	GATES AND HOISTS FOR CANAL REGULATORS :		
WRD: 6.24.	Design, fabrication, supply, erection and commissioning of **embedded** parts consisting of sill beam, wall plates, first stage anchors, anchor girders, anchor bars, trunnion supports, wire rope / pulley supports with all accessories **for canal regulator radial gates** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of 1 set embedded parts in tonnes = 0.092 x $(L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.1 % of computed weight for 1 set.	**t**	**172000.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 6.25.	Design, fabrication, supply, erection, testing and commissioning of **radial gate** consisting of skin plate, stiffeners, horizontal girders, sector ams, trunnion assemblies, tie beam, pulley supports, bracings, rubber seals, seal clamps with all accessories for **canal regulator** including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of 1 radial gate in tonnes = 0.1685 x (L^2 x H x h)$^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.3 % of computed weight for 1 gate.	**t**	**170500.00**
WRD: 6.26.	Design, fabrication, supply, erection, testing and commissioning of adequate capacity **rope drum hoist** consisting of hoist platfoms, rope drums, connecting shaft,gear system, control panel, pulleys, wire rope, manual operation system, railing, ladder with all accessories for operating **canal regulator radial gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning ,greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings.		
6.26.1	**electrically operated rope drum hoist** **Note:** 1. Capacity of hoist in t with 25 % reserve capacity =2.00 x Wt of gate. (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 300 kg per tonne capacity of hoist 2. Quantity of structural steel = 66.4 % of computed weight for 1 hoist.	**t capacity**	**76800.00**
6.26.2	adequate capacity **manually operated rope drum hoist** consisting of **Note:** 1. Capacity of hoist in t with 25 % reserve capacity =2.00 x Wt of gate. (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 275 kg per tonne capacity of hoist 2. Quantity of structural steel = 66.4 % of computed weight for 1 hoist.	**t capacity**	**69700.00**
WRD: 6.27.	Design, fabrication, supply, erection and commissioning of **embedded parts (with top seal seat)** consisting of sill beam, wheel tracks, seal seats, guide rails, groove lining upto top with all accessories for **vertical lift roller gate for canal escape / regulator** including cost	**t**	**189000.00**

Sl. No.	Specification	Unit	Rate ₹
	of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint complets as per specifications and approved drawings. **Note:** 1. Wt of 1 set of embedded parts in tonnes = 0.1332 x $(L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent width in m + 0.50 m. (H) is height of gate in m = Clear vent height in m + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.4 % of computed weight for 1 set.		
WRD: 6.28.	Design, fabrication, supply, erection, testing and commissioning of **fixed wheel type vertical lift gate (with top seal)** consisting of skin plate, siffeners, horizontal and vertical girders, wheels, guide rollers, rubber seals with all accessories for **canal escape / regulator vent** including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Weight of 1 gate in tonnes = 0.0888 $(L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent width in m + 0.50 m. (H) is height of gate in m = Clear vent height in m + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 92.1 % of computed weight for 1 gate.	**t**	**176500.00**
WRD: 6.29.	Design, fabrication, supply, erection, testing and commissioning of adequate capacity **screw type hoist** consisting of supporting structure, platfom, railing, ladder with all accessories for operating canal **escape / regulator gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Capacity of hoist in t with 25 % reserve capacity =2.50 x Wt of gate. (Hoist capacity shall be rounded off to next 1 tonne) Weight of hoist with all accessories: 300 kg per tonne capacity of hoist 2. Quantity of structural steel = 61.2 % of computed weight for 1 hoist.	**t capacity**	**47700.00**
WRD: 6.30.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wheel tracks, seal seats, guide rails, gate groove liners with all accessories for **canal escape / regulator stoplog gate** including cost of all materials, machinery, labour, cutting, aligning,	**t**	**183200.00**

Sl. No.	Specification	Unit	Rate ₹
	anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1.Wt of 1 set of embedded parts in tonnes = 0.0665 x (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m. (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.9 % of computed weight for 1 set.		
WRD: 6.31.	Design, fabrication, supply, erection, testing and commissioning of sliding type interchangeable **stoplog gate elements** consisting of skin plate, stiffeners, horizontal and vertical girders, lifting hooks, bronze padded slide blocks, guide shoes, rubber seals with all accessories for **canal regulator vent** including cost of all materials, machinery, labur, cutting, aligning, welding, finishing, cleaning, applying one coats of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 set of stoplog elements in tonnes = 0.0995 (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m. (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 98.5 % of computed weight for 1 gate.	**t**	**161000.00**
	GATES AND HOISTS FOR PUMP HOUSE INTAKE:		
WRD: 6.32.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of liners **for trash rack grooves** (for coarse and fine screenS) with all accessories **for pump house intake structure** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 set of embedded parts in tonnes = 100 to 125 kg / m height 2. Quantity of structural steel = 100.0 % of computed weight for 1 set.	**t**	**172900.00**
WRD: 6.33.	Design, fabrication, supply, erection and commissioning of **trash racks** consisting of a number of panels of suitable height with vertical trash bars welded to structural steel frame at wider interval and provided with weld mesh frame **for pump house intake structure** including cost of all materials,machinery, labour, cutting, aligning, welding,	**t**	**131800.00**

Sl. No.	Specification	Unit	Rate ₹
	finishing,cleaning, applying one coat of zinc rich epoxy primer and four coats cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of trash rack panels for 1 vent in t = 0.0375 x (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.20 m. (H) is total height of trash rack panels in m (h) is head of water above sill of trash rack in m = FSL - Sill level 2. Quantity of structural steel = 100.0 % of computed weight.		
WRD: 6.34.	Design, fabrication, supply, erection and commissioning of **embedded parts** consisting of sill beam, wheel tracks, seal seats, guide rails, gate groove liners with all accessories for **pump house intake stoplog gate** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1.Wt of 1 set of embedded parts in tonnes = 0.0665 x (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m. (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.9 % of computed weight for 1 set.	**t**	**183200.00**
WRD: 6.35.	Design, fabrication, supply, erection, testing and commissioning of sliding type **stoplog gate** consisting of skin plate, horizontal and vertical girders, lifting hooks, bronze padded slide blocks, stiffeners, guide shoes, rubber seals with all accessories for **pump house intake vent** including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coats of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Wt of 1 stoplog gate in tonnes = 0.0995 (L^2 x H x h)$^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m. (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 98.5 % of computed weight for 1 gate.	**t**	**161000.00**
WRD: 6.36.	Design, fabrication, supply, erection and commissioning of **electrically operated mono-rail hoist assembly** consisting of electric motor, rope drum, gear system, wire rope with lifting attachment, festoon cabling with all accessories for operating pump house stop-log gate including	**t capacity**	**64400.00**

Sl. No.	Specification	Unit	Rate ₹
	cost of all materials (excluding providing mono-rail hoist supporting structure and mono-rail with fixtures), machinery, labour, cleaning, greasing and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. Hoist capacity = 1.50 x weight of stop-gate		
WRD: 6.37.	Design, fabrication, supply, erection and commissioning of **structural steel hoist supporting structure** consisting of columns, cross beams, bracings, stiffeners, mono-rail with fixtures with all accessories for **electrically operated monorail rope drum hoist for operating pump house intake vertical lift gates** including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of synthetic enamel paint and all other ancillary operations complete **as per specifications and approved drawings.** **Note:** 1. Columns with bracings / anchors / stiffeners: 150 kg per metre height. Weight proposed above is for each intake vent 2. Mono rail beam with cross beams : 100 kg per metre length 3. Quantity of structural steel = 97.8 % of computed weight for 1 span.	**t**	**136200.00**
WRD: 6.38.	Design, fabrication, supply, erection, testing and commissioning **EOT crane** consisting of double girder box type construction, rail mounted end carraiges with long and cross travel arrangement, main and auxiliary hoists of specified capacity, rails, pendant control, gear boxes, electric motors, brakes, rope drums, wire ropes, sheaves, end buffer stoppers, pendant operated DSL bus bars with all accessories for main and auxiliary hoists **for handling pumps and accessories in pump house** including cost of all materials,machinery, labour,cutting, aligning,welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings. **Note:** 1. EOT crane Main hoist capacity = 1.25 x Maximum lifting load in tonne 2. EOT crane auxiliary hoist capacity = 10 % of main hoist 3.. Rate for EOT crane shall be based on capacity of main hoist.	**t capacity**	**212100.00**

Chapter - WRD : 7

LIFT IRRIGATION WORKS

WRD: 7. LIFT IRRIGATION WORKS

NOTES ON BASIC RATES

1. All notes under General Notes on Schedule of Rates and Notes are applicable to **Lift Irrigation Works** also to the extent they are relevant.
2. Unless otherwise specified the basic rates are inclusive of all lifts.
3. Unless otherwise specified the basic rates are inclusive of standard finishing required for concrete surface.
4. The basic rates for concrete items include cleaning the top surface of previous lift and providing cement mortar layer before placing the concrete for next lift. The proportion of cement mortar shall be same as that of mortar portion in concrete.

Sl. No.	Specification	Unit	Rate ₹
	EXCAVATION & FOUNDATION TREATMENT WORKS :		
WRD: 7.1.	**Providing and placing sand bags** consisting of empty cement bags filled with 35 to 40 kg locally available sand **for forming ring bund** including cost of all materials, labour, plugging joints with selected earth, and all other ancillary operations complete.	**each**	**68.00**
WRD: 7.2	**Filling clayey soil between two rows of sand bags** placed for forming ring bund including cost of all materials, labour,tamping, plugging leakage points and all other ancillary operations complete.	**m^3**	**482.00**
	MASONRY WORKS :		
WRD: 7.3	Providing and fixing **acid resistant tiles** of approved quality **for battery room** flooring / dadooing set over a bed of 20 mm thick **CM 1 : 3** proportion by volume including cost of all materials, machinery, labour, cleaning surface, batching and mixing mortar, grouting joints with acid resistant mortar mix, finishing, curing and all other ancillary operations complete.	**m^2**	**2348.00**
	DELIVERY / MANIFOLD / RAISING MAIN PIPES :		
WRD: 7.4	**Manufacturing, supplying, laying** in position, aligning, jointing, testing and commissioning of electric resistance welded / submerged arc welded **mild steel (Fe-410 grade) delivery pipes** of specified diameter and plate thickness with flanged ends wherever required and provided with 1 coat 40 micron thick zinc rich epoxy primer paint and 3 coats 100 micron thick each coat coal tar epoxy paint for inner surface and 1 coat of 40 micron thick zinc rich epoxy primer paint and 2 coats of 100 micron thick each coat coal tar epoxy paint for outer surface including cost of all materials, machinery, labour, cutting, bending, welding, finishing, painting,conveying to spot, lowering, aligning, jointing,arranging water for testing, hydraulic testing at fabrication site and after laying and jointing at specified test pressure and all other ancillary operations complete as per specifications and approved drawings. **Diameter of delivery pipe : ……..mm Thickness of plate : ……mm.** **Note: Rate per m of pipe = Rate per tonne x Weight of pipe per m** **Weight of pipe per m for specified diameter and plate thickness** **= 0.373 x Diameter of pipe in mm x Plate thickness in mm / 14400**	**t**	**143160.00**
WRD: 7.5	Manufacturing, supplying, laying in position, aligning, jointing, testing and commissioning of electric resistance welded /submerged arc welded **mild steel (Fe-410 grade) manifold pipe system** of specified diameter and plate thickness with flanged inlets / outlets at specified locations for connecting pump delivery pipes and rising mains and provided with 1 coat of 40 micron thick zinc rich epoxy primer paint and 3 coats of 100 micron thick each coat coal tar epoxy paint for inner surface and exposed outer surface including cost of all materials, machinery, labour, cutting, bending, welding, finishing, painting, conveying to spot, lowering, aligning,jointing, arranging water for testing,hydraulic testing at fabrication site and after laying and jointing at specified test pressure	**t**	**129564.00**

Sl. No.	Specification	Unit	Rate ₹
	and all other ancillary operations complete as per specifications and approved drawings. (excluding cost of thrust block for anchoring / encasing manifold pipe). **Diameter of manifold pipe : …….mm Thickness of plate : ……mm.** **Note: Rate per m of pipe= Rate per tonne x Weight of pipe per Rm** **Weight of pipe per m for specified diameter and plate thickness** **= 0.976 x Diameter of pipe in mm x Plate thickness in mm / 30000**		
WRD: 7.6	Manufacturing, supplying, laying in position, aligning, jointing, testing and commissioning of electric resistance welded / submerged arc welded **mild steel (Fe-410 grade) rising main** of specified diameter and plate thickness provided with flanges / outlets wherever required for connecting to manifold system / for fixing valves and provided with 15 mm thick inner lining of CM 1:1.5 proportion by volume and 25 mm thick outer lining of CM 1:3 proportion by volume (aggregate for outer lining shall be mixture of 80 percent natural sand and 20 percent 6 mm down crushed stone chips) over 13 gauge 50 x 50 mm opening size weld mesh including cost of all materials, machinery, labour, cutting, bending, welding, cement mortar lining, finishing, curing, conveying to spot, lowering, aligning, jointing, arranging water for testing, hydraulic testing at manufacturing site and after laying and jointing at specified test pressure and all other ancillary operations complete as per specifications and approved drawings. **Diameter of raising main : …….mm Thickness of plate : ……mm.** **Note: Rate per m of pipe = Rate per tonne x Weight of pipe per m** **Weight of pipe per m for specified diameter and plate thickness** **= 0.597 x Diameter of pipe in mm x Plate thickness in mm / 24000**	**t**	**137530.00**
	PUMPS & OTHER ACCESSORIES:		
WRD: 7.7	Design, manufacture, supply, erection, trail running, performance testing and commissioning of **vertical turbine pump of approved make** conforming to IS: 1710 having specified pump output under specified operating head coupled to HT motor of adequate HP rating operating at 6.6 KV with flexible coupling, self water lubricated thrust bearings, discharge Tee with flanged end for connecting delivery pipe with all other standard accessories and safety devices and all other ancillary operations complete as per specifications, terms and conditions of contract.		
7.7.1	**V T pump** coupled to **more than 1000 hp upto 1500 hp** motor	**hp**	**15680.00**
7.7.2	**V T pump** coupled to **more than 1500 hp upto 2000 hp** motor	**hp**	**16550.00**
7.7.3	**V T pump** coupled to **more than 2000 hp upto 2500 hp** motor	**hp**	**17400.00**
7.7.4	**V T pump** coupled to **more than 2500 hp upto 3000 hp** motor	**hp**	**18250.00**
7.7.5	**V T pump** coupled to **more than** 3**000 hp upto 3500 hp** motor	**hp**	**19100.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 7.8	Design, fabrication, supply, assembling, testing and commissioning of **HT pump panel board** made of sheet metal duly painted with recess for cable entries at bottom suitable for 6.6 KV equipped with vaccum circuit breaker of suitable capacity for 1 number incoming 1600A and 2 numbers 630A outgoing of suitable capacity with aluminium bus bars of 1600 Amp metering panel, protection relays and all other accessories complete with wiring as per specifications and approved drawings.		
7.8.1	**Panel board with VCBs and fittings common to all pumps**	**Set**	**1848000.00**
7.8.2	**Additional VCB including sheet metal enclosure, extension bus bars, metering and relays complete for each additional pump for moumting on common panel board**	**Set**	**652960.00**
	Note: Rate for complete set of HTpump panel board = Rate for common VCBs and fittings + (Rate for additional VCB per pump x Number of additional pumps)		
WRD: 7.9	Design, fabrication, supply, assembling, testing and commissioning of **Remote control panel** made of sheet metal in desk type configuration duly painted with recess for cable entries at the bottom equipped with operating consoles, indicators, annunciation windows, hooters and all other accessories assembled and ready to receive control wires and other connections and all other ancillary operations complete as per specifications and approved drawings. **Note: Rate per complete set of Remote control panel = Rate for Remote control panel for each pump x Number of pumps**	**each pump**	**55440.00**
WRD: 7.10	Supply, installation and commissioning of **Load Break Switch** with HRO fuses, CBCT and ELR in painted sheet metal enclosure with operating console and all other ancillary operations complete for use along with Power Factor capacitor bank as per specifications, terms and conditions of contract.	**Set**	**466620.00**
WRD: 7.11	Supply and installation of **Axillary DC supply** system of approved make with battery charger cum DCDB with batteries for 110 A hour complete with all accessories.	**Set**	**843920.00**
WRD: 7.12	Supplying and installing **Temperature scanner** suitable for operating at 110 V DC or 230 V AC mounted in a duly painted sheet metal enclosure provided with NO / NC relays for transmitting signal to VCBs for tripping with audible alarm for both windings and bearings RTDs with all other accessories for satifactory functioning of the system and all other ancillary operations complete as per specifications, terms and conditions of contract.	**Set**	**95480.00**
WRD: 7.13	Supplying, installing and commissioning **electrode actuated water level transmitter of approved make** with all accessoreis to protect against dry running of pump.	**Set**	**194040.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 7.14	Supply and installation of **floor mounting type LTAC panel** of approved make fabricated from sheet metal and painted with provision for suitable incoming and specified number of outgoing feeder inlets with metering panel and all other accessories complete for auxiliary supply as per specifications.	**each**	**468160.00**
WRD: 7.15	Supply and installation of **Auxiliary transformer** 6.6 KV / 433 Volts **160 KVA** copper wound, insulating oil filled with all accessories complete as per specifications.	**Set**	**400400.00**
WRD: 7.16	Fabricating,supplying, erecting,testing and commissioning 6.6KV 2500A capacity wall entry type **bus duct** with flexible end connectors to connect transformer and HT motor panel inside pump house with all accessories, supports complete as per specifications and drawings.	**m**	**49280.00**
WRD: 7.17	Supply, installation and commissioning of **soft starter** for **specified kW load** operating at 6.6 KV with load break switch, metering, protection by-pass vaccum contactor with all accessories complete housed in painted sheet metal enclosure. **Note: Rate for Soft starter set per pump = Specified kW load x Rate per 500 kW / 500**	**500 kW**	**924000.00**
	MINOR IRRIGATION SPECIFIC:		
	Guniting works		
7.18	Providing **15 mm thick inner guniting** to pipe in **CM 1:1.5** proportion by volume including cost of all materials, machinery, labour, surface cleaning, fininshing, curing, conveying to spot wherever required and all other ancillary operations & all necessary works complete as per specification.	**m^2**	**828.00**
7.19	Providing **25mm thick outer linning of CM 1:3** to pipe in proportion by volume (aggregate for outer lining shall be mixture of 80 percent natural sand 20 percent 6 mm down crushed stone chips) over 13 gauge 50 x 50 mm opening size weld mesh including cost of all materials, machinery, labour, surface cleaning, fininshing, curing, conveying to spot wherever required and all other ancillary operations & all necessary works complete as per specification.	**m^2**	**1276.00**
	SUPPLY & LAYING OF PIPES FOR RAISING MAIN / MANIFOLD / DELIVERY		
7.20	Supplying **P-2 Class R.C.C spun pipes** (safe for 4 kg / cm^2 test pressure) to work spot including cost of all materials, machinery, labour, taxes, duties, levies, royalty & all necessary works as applicable .		
7.20.1	400 mm dia P-2 Class R.C.C spun pipe	**m**	**838.00**
7.20.2	450 mm dia P-2 Class R.C.C spun pipe	**m**	**1026.00**
7.20.3	500 mm dia P-2 Class R.C.C spun pipe	**m**	**1167.00**

Sl. No.	Specification	Unit	Rate ₹
7.20.4	600 mm dia P-2 Class R.C.C spun pipe	**m**	**1492.00**
7.20.5	700 mm dia P-2 Class R.C.C spun pipe	**m**	**1643.00**
7.20.6	800 mm dia P-2 Class R.C.C spun pipe	**m**	**2273.00**
7.20.7	900 mm dia P-2 Class R.C.C spun pipe	**m**	**2474.00**
7.20.8	1000 mm dia P-2 Class R.C.C spun pipe	**m**	**3028.00**
7.20.9	1100 mm dia P-2 Class R.C.C spun pipe	**m**	**3521.00**
7.20.10	1200 mm dia P-2 Class R.C.C spun pipe	**m**	**4242.00**
7.21	Supplying **P-3 Class R.C.C spun pipes** (safe for 6 kg / cm^2 test pressure) to work spot including cost of all materials, machinery, labour, taxes, duties, levies, royalty & all necessary works as applicable as per specification.		
7.21.1	400 mm dia P-3 Class R.C.C spun pipe	**m**	**1443.00**
7.21.2	450 mm dia P-3 Class R.C.C spun pipe	**m**	**1818.00**
7.21.3	500 mm dia P-3 Class R.C.C spun pipe	**m**	**1924.00**
7.21.4	600 mm dia P-3 Class R.C.C spun pipe	**m**	**2712.00**
7.21.5	700 mm dia P-3Class R.C.C spun pipe	**m**	**3089.00**
7.21.6	800 mm dia P-3 Class R.C.C spun pipe	**m**	**3835.00**
7.21.7	900 mm dia P-3 Class R.C.C spun pipe	**m**	**4574.00**
7.21.8	1000 mm dia P-3 Class R.C.C spun pipe	**m**	**5361.00**
7.21.9	1100 mm dia P-3 Class R.C.C spun pipe	**m**	**5781.00**
7.21.10	1200 mm dia P-3 Class R.C.C spun pipe	**m**	**6631.00**
7.22	**Laying and jointing P-2/P-3 class R.C.C spun pipes** true to line and level with perfect linking at joint including loading, unloading, rolling / lifting and lowering into trench, applying soft soap to spigot and socket ends, cleaning inserting rubber sealing ring into correct position, jointing the pipes perfectly by jacking or other approved method, giving necessary hydraulic test at the specified pressure, cost of all jointing and water pressure testing materials, machinery, labour & all necessary works complete as per specification.		
7.22.1	400 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**216.00**
7.22.2	450 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**245.00**
7.22.3	500 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**286.00**
7.22.4	600 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**323.00**

Sl. No.	Specification	Unit	Rate ₹
7.22.5	700 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**376.00**
7.22.6	800 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**456.00**
7.22.7	900 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**563.00**
7.22.8	1000 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**631.00**
7.22.9	1100 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**730.00**
7.22.10	1200 mm dia P-2 / P-3 class R.C.C spun pipes	**m**	**850.00**
7.23	Manufacturing, supplying, laying in position, aligning, jointing, testing and commissioning of **electric resistance welded / submerged arc welded mild** steel (Fe-410 grade) **raising main pipe** of specified diameter and plate thickness provided with flanges / outlets wherever required for connecting to manifold system / for fixing valves and provided with 625 micron thick coat of Polyurethane paint for inner lining and inner surface, 25mm thick outer linning of CM 1:3 proportion by volume (aggregate for outer lining shall be mixture of 80 percent natural sand and 20 percent 6 mm down crushed stone chips) over 13 gauge 50 x 50 mm opening size weld mesh including cost of all materials, machinery, labour, cutting, bending, welding, cement mortar lining, finishing, curing, conveying to spot, lowering, aligning, jointing, arranging water for testing, hydraulic testing at manufacturing site and after laying and jointing at specified test pressure & all necessary works complete as per specifications and approved drawings. Basic Cost of MS Plate is considered as Rs.71,700.00 per MT. Diameter of raising main pipe : ....mm Thickness of plate :...........mm. **Note:** Rate per m of pipe = Rate per tonne x weight of pipe per m weight of pipe per m for specified diameter in mm and thickness of plate in mm = 0.597x diameter of pipe in mm x plate thickness in mm / 24000	**t**	**144729.00**
7.24	Manufacturing, supplying, laying in position, aligning, jointing, testing and commissioning of **electric resistance welded / submerged arc welded mild steel (Fe-410 grade) raising main pipe** of specified diameter and plate thickness provided with flanges / outlets wherever required for connecting to manifold system /for fixing valves and provided with 2 coat of 60 micron thick Zinc epoxy primer paint and 3 coats of 100 micron thick each coal tar epoxy for inner surface and 25mm thick outer lining of CM 1:3 propotion by volume (aggregate for outer lining shall be mixture of 80 percent natural sand and 20 percent 6 mm down crushed stone chips) over 13 gauge 50 x 50 mm opening size weld mesh including cost of all materials, machinery, labour, cutting, bending, welding, cement mortar lining, finishing, curing, conveying to spot, lowering, aligning, jointing, arranging water for testing, hydraulic testing at manufacturing site and after laying and jointing at specified test pressure & all necessary works complete as per specifications and approved drawings.	**t**	**140700.00**

Sl. No.	Specification	Unit	Rate ₹
	Basic Cost of MS Plate is considered as Rs.71,700.00 per MT. Diameter of raising main pipe : …….mm Thickness of plate :…….mm. **Note:** Rate per m of pipe = Rate per tonne x weight of pipe per m weight of pipe per m for specified diameter in mm and thickness of plate in mm = 0.597x diameter of pipe in mm x plate thickness in mm / 24000		
7.25	Providing **inside epoxy paint coating to M.S. pipe**s with 1 coat of 40 micron thick zinc rich epoxy primer paint of approved quality and 3 coats of 100micron thick each coat approved quality coal tar epoxy paint for inner surface. The rates are including removing all rust/dirt, other foreign matter, cleaning surface after blasting, cost of all materials, labour, machineries, testing & all necessary works complete as per specification and approved drawings.	**m^2**	**342.00**
	PUMPS & MOTORS / VALVES & OTHER WORKS		
7.26	**Erection, testing, commissioning and trial running of centrifugal pump and motor** with all accessories necessary for satisfactory running of pump including cost of all materials, machinery, labour & all necessary works complete as per terms and conditions of contract.		
7.26.1	15 to 30 hp with all accessories	**each**	**22750.00**
7.26.2	More than 30 upto 50 hp with all accessories	**each**	**37150.00**
7.26.3	More than 50 upto 75 hp with all accessories	**each**	**55650.00**
7.26.4	More than 75 upto 100 hp with all accessories	**each**	**82650.00**
7.26.5	More than 100 upto 150 hp with all accessories	**each**	**103400.00**
7.26.6	More than 150 upto 200 hp with all accessories	**each**	**122750.00**
7.26.7	More than 200 upto 250 hp with all accessories	**each**	**159600.00**
7.26.8	More than 250 upto 300 hp with all accessories	**each**	**200300.00**
7.27	**Erection, testing, commissioning and trial running of Vertical turbine pump and motor** with all accessories necessary for satisfactory running of pump including cost of all materials, machinery, labour & all necessary works complete as per terms and conditions of contract.		
7.27.1	15 to 30 hp with all accessories	**each**	**37100.00**
7.27.2	More than 30 upto 50 hp with all accessories	**each**	**51100.00**
7.27.3	More than 50 upto 75 hp with all accessories	**each**	**78900.00**
7.27.4	More than 75 upto 100 hp with all accessories	**each**	**105800.00**
7.27.5	More than 100 upto 150 hp with all accessories	**each**	**129500.00**
7.27.6	More than 150 upto 200 hp with all accessories	**each**	**176900.00**

Sl. No.	Specification	Unit	Rate ₹
7.27.7	More than 200 upto 250 hp with all accessories	**each**	**224150.00**
7.27.8	More than 250 upto 300 hp with all accessories	**each**	**281750.00**
7.28	Design, manufacturing, supply, errection, trail running, performance test and commissioning of **centrifugal pump** of approved make conforming to IS:12699 (1989) (Reaffirmed 2009) having specified pump output under specified operating head coupled to HT/LT ,WITH motor of adeuate HP rating operating at suitable KV with flexible coupling, self water lubricated thrust bearings, discharge Tee with flanged end for connecting delivery pipe with all other standard accessories and saftey device& all necessary works complete as per specification. **UPTO 3500 HP**	**Per HP**	**10500.00**
7.29	Conveying and fixing **Sluice valve / Check valve** true to line and perfect linking with pipes on either side including loading, unloading, lifting and lowering into trench, cleaning ends, inserting gaskets into correct position, jointing pipes and valve to form water tight joints, cost of all jointing materials, machinery, labour & all necessary works complete as per specification.		
7.29.1	400 mm dia sluice valve / check valve	**each**	**952.00**
7.29.2	450 mm dia sluice valve / check valve	**each**	**1070.00**
7.29.3	500 mm dia sluice valve / check valve	**each**	**1275.00**
7.29.4	600 mm dia sluice valve / check valve	**each**	**1513.00**
7.29.5	700 mm dia sluice valve / check valve	**each**	**1581.00**
7.29.6	800 mm dia sluice valve / check valve	**each**	**1649.00**
7.29.7	900 mm dia sluice valve / check valve	**each**	**1784.00**
7.29.8	1000 mm dia sluice valve / check valve	**each**	**1920.00**
7.29.9	1100 mm dia sluice valve / check valve	**each**	**2055.00**
7.29.10	1200 mm dia sluice valve / check valve	**each**	**2191.00**

Chapter - WRD : 8

PRELIMINARY AND MAINTENANCE WORKS

Sl. No.	Specification	Unit	Rate ₹
	JUNGLE CLEARANCE :		
WRD: 8.1.	**Cutting and stacking bamboos** excluding removing stumps and roots with all other ancillary operations complete.	**each**	**27.00**
WRD: 8.2.1	**Cutting and removing jauliflora** bushes **upto 1.50 m girth** excluding removal of stumps and including burning or disposing off the materials as directed with all other ancillary operations complete.	**each**	**25.50**
WRD: 8.2.2	**Cutting and removing jauliflora** bushes **above 1.50 m upto 3.00 m girth** excluding removal of stumps and including burning or disposing off the materials as directed with all other ancillary operations complete.	**each**	**50.50**
WRD: 8.3	**Cutting and burning or disposing off Apu / Jondu** from marshy areas as directed with all other ancillary operations complete.	**m^2**	**9.40**
	PRELIMINARY WORKS :		
WRD: 8.4.	Conducting **geophysical investigation** studies by electrical resistivity method in stages of 5 m or as directed for sub-surface details such as depth of fomations, shear zones, classification of strata, depth of water table including cost of all materials, equipments, labour, analysing and reporting details of field studies conducted with all other ancillary operations complete.	**stage**	**415.00**
WRD: 8.5.	**Drilling 80 mm dia hole through over-burden** using casing shoe bit vertical or inclined upto 10 degrees to vertical as directed including cost of all materials, machinery, labour, water charges, reaming, collection of wash samples at suitable intervals, logging and labelling, supplying honne wood core box, fixing casing pipes (excluding cost of casing pipes) and all other ancillary operations complete for depth upto **30 m from surface.** **Note:** 1. For driiling through over-burden beyond 30 m from surface increase the rate per m by 10 percent. 2. For providing HDPE or light black MS casing pipe add the cost of pipe per m.	**m**	**1674.00**
WRD: 8.6.1	**Drilling 76 mm dia (NX) core hole in hard rock** using diamond core bit vertical / inclined upto 10 degree to vertical as directed including cost of all materials, machinery, labour, water charges, collection of core samples, logging and labelling samples, supplying honne wood core box including cement grouting and redrilling in case of collapse of sides (excluding cost of cement for grouting) with all other ancillary operations and all other ancillary operations complete for depth upto 30 m from surface. **Note:** 1. For driiling in hard rock **beyond 30 m upto 60 m** from surface increase the basic rate per m for drilling upto 30 m by 25 percent. 2. For driiling in hard rock **beyond 60 m upto 90 m** from surface increase the basic rate per m for drilling upto 30 m by 40 percent.	**m**	**8251.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.6.2	**Drilling 47 mm dia (BX) core hole in hard rock** using diamond core bit vertical / inclined upto 10 degree to vertical as directed including cost of all materials, machinery, labour, water charges, collection of core samples, logging and labelling samples, supplying honne wood core box including cement grouting and redrilling in case of collapse of sides (excluding cost of cement for grouting) with all other ancillary operations and all other ancillary operations complete for depth upto 30 m from surface. **Note:** 1. For driiling in hard rock **beyond 30 m upto 60 m** from surface increase the basic rate per m for drilling upto 30 m by 25 percent. 2. For driiling in hard rock **beyond 60 m upto 90 m** from surface increase the basic rate per m for drilling upto 30 m by 40 percent.	**m**	**7929.00**
WRD: 8.7.	**Providing and fixing** 200 x 200 x 750 mm roughly dressed **boundary / demarcation / chainage/ arrow stones** including cost of all materials, labour, engraving marks, excavating pit, fixing in position, murum filling with all other ancillary operations complete.	**each**	**270.00**
WRD: 8.8.	**Providing** and fixing 200 x 200 x 750 cm size **temporary bench mark** stone in CC 1 : 4 : 8 proportion by volume using 40 mm down clean,hard, graded aggregates including cost of all materials, labour, dressing top surface of stone and engraving BM data, excavating pit, batching and mixing concrete,placing concrete around stone and compacting,finishing, curing with all other ancillary operations complete. **Note:** For providing 300 mm thick compacted murum bed in B.C soil area including additional excavation for thickness of murum bedding add ₹ 21.50 / each	**each**	**825.00**
WRD: 8.9.	**Providing and fixing 200 x 200 x 750 mm size pemanent bench mark** stone in 900 x 900 x 1200 mm size block of CC 1 :3 : 6 proportion by volume using 40 mm down clean, hard, graded aggregates and providing 350 mm thick 300 mm high protective wall of UCR masonry in CM 1 : 5 proportion by volume alround BM stone, including cost of all materials, labour, dressing top surface of stone and engraving BM data on top surface, excavation of pit, batching and mixing concrete and mortar, placing concrete around stone and compacting, packing mortar and wedging stone chips into masonry joints, finishing, curing with all other ancillary operations complete.	**each**	**10401.00**
	MAINTENANCE WORKS :		
WRD: 8.10.	**Removing** dry stone **rock- toe / rivetment** and **filter** layers below rock-toe / rivetment including stacking all materials separately as directed with all other ancillary operations complete.	**m^3**	**316.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.11.	**Re-constructing** 600 mm thick hand packed **rough stone revetment** with through stones at 1.50 m c/c over a backing of 450 mm thick graded filter media consisting of sand, 10 mm and 40 mm down graded aggregates satisfying specified filter criteria laid in layers of 150 mm thick each using sand from approved quarry and stones and filter aggregates obtained from revetment removed for re-construction including cost of sand, labour, laying filter and stones to specified slopes, wedging with stone chips, finishing surface with all other ancillary operations complete.	**m^2**	**558.00**
WRD: 8.12.	**Re-constructing** dry rubble **rock-toe** including **filter media** below / behind rock-toe consisting of sand 20 mm and 80 mm down graded aggregates satisfying specified filter criteria laid in layers of 150 mm thick each using sand from approved quarry and stones and filter aggregates obtained from rock-toe removed for re-construction including cost of sand, labour, laying filter and stones to specified slopes, wedging with stone chips, finishing surface with all other ancillary operations complete.	**m^3**	**581.00**
WRD: 8.13.	**Removing** and **resetting** disturbed Yarguntla /Shahabad /Talikot /PCC / other types of **slab lining in CM 1 : 3** proportion by volume with **flush pointing in CM 1 : 3** proportion by volume including cost of all materials, labour, batching and mixing mortar, finishing, curing with all other ancillary operations complete.	**m^2**	**92.00**
WRD: 8.14.	**Removing** and **resetting** disturbed **dry rubble / size stone pitching** 250 to 450 mm thick including packing and wedging with stone chips, finishing surface with all other ancillary operations complete.	**m^2**	**95.00**
WRD: 8.15.	**Removing** and **refixing** disturbed **chainage/ demarcation/ hectometre / guard stones** including excavation, back filling after re-fixing stone with all other ancillary operations complete.	**each**	**121.00**
WRD: 8.16.	Removing and **refixing** disturbed **km stone /sign board / hecto-metre stone including excavation, back filling with available stuff after** refixing, forming base platfom of size 900 x 900 x 75 mm including watering, ramming with all other ancillary operations complete.	**each**	**274.00**
WRD: 8.17.	Providing **hearting embankment for breached / damaged portion** of **canal using selected approved impervious soil** in layers of 100 to 150 mm (before compaction) including cost of all materials, machinery, labour, all operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, sectioning sides / edges, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller or pneumatic / vibrating plate compactors with all other ancillary operations complete.		
8.17.1	**from borrow areas**	**m^3**	**548.00**
8.17.2	**from dump areas**	**m^3**	**302.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.18.	Providing **casing embankment for breached / damaged portion** of canal using **approved pervious /semi-pervious soil** in layers of 100 to 150 mm (before compaction) including cost of all materials, machinery, labour, all operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, sectioning sides / edges, watering, compacting each layer to **density control of not less than 95 percent** or as stipulated using power roller or pneumatic / vibrating plate compactors with all other ancillary operations complete.		
8.18.1	**from borrow areas**	**m^3**	**659.00**
8.18.2	**from dump areas**	**m^3**	**278.00**
WRD: 8.19.	**Repairing rain cuts** / resectioning canal slopes to required lines and grades as directed using available canal side soil including dressing, packing soil, breaking clods, watering, tamping with all other ancillary operations complete.	**m^2**	**6.50**
WRD: 8.20.	**Cleaning drainage gallery, adits, instrumentation galleries** by scrubbing / brushing including chiselling and removing leached lime deposit and disposing off all the waste material out side adits in specified location as directed with all other ancillary operations complete.	**m**	**65.00**
WRD: 8.21.	**Cleaning dam parapet** inner face and top using oxalic acid and water by scrubbing / brushing and washing to remove all surface coatings with all other ancillary operations complete.	**m**	**54.00**
WRD: 8.22.	**Cleaning gates / hoists / embedded parts** for re-painting by removing rust, old paint, grease by using wire brush, scrubber, rust remover including cost of all materials, labour, machinery, scaffolding, applying a coat of rust inhibitive compound with all other ancillary operations complete.	**m^2**	**95.00**
WRD: 8.23.	**Cleaning gates / hoists / embedded parts** to expose fresh metal surface for repainting **by sand blasting** method as per specifications including cost of all materials, labour, machinery, scaffolding, applying a coat of rust inhibitive compound with all other ancillary operations complete.	**m^2**	**843.00**
WRD: 8.24.	Excavation and **removal of silt** and silt mixed with sand from canal bed by **manual means** including disposing off the same in spoil bank or on the canal embankment in layers as directed with all other ancillary operations complete.		
8.24.1	**in dry condition**	**m^3**	**285.00**
8.24.2	**in slussy condition**	**m^3**	**356.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.25.1.	**Removing and hauling** all kinds of **soil / soft rock** including boulders upto 0.6 m diameter **slipped due to natural causes** and disposing off the same in specified dump area or as directed by manual means including cost of all materials, labour, foming steps / rampways and all other ancillary operations complete. **Note:** 1. The rate under this item is for unit quantity of soil / soft rock in slipped condition. 2. The rate under this item shall be adopted where the material can be disposed off nearby lead or where the slipped zone is inaccessible for disposal of material by mechanical mode. 3. The wieghted average rate applicable to entire quantity based on rates provided under items (8.25.1) and (8.26.1) may be considered where the slipped material consists of mixture of soil / soft rock and hard rock.	**m^3**	**246.00**
WRD: 8.25.2.	**Removing and hauling** all kinds of **soil / soft rock** including boulders upto 0.6 m diameter **slipped due to natural causes** and disposing off the same in specified dump area or as directed by mechanical means including cost of all materials, machinery, labour, rampways and all other ancillary operations complete. **Note:** 1. The rate under this item is for unit quantity of soil / soft rock in slipped condition. 2. The wieghted average rate applicable to entire quantity based on rates provided under items (8.25.2) and (8.26.2) may be considered where the slipped material consists of mixture of soil / soft rock and hard rock.	**m^3**	**107.00**
WRD: 8.26.1.	**Removing and hauling hard rock** of all toughness including boulders above 0.6 m diameter **slipped due to natural causes including breaking** large fragments by blasting if necessary and disposing off the same in specified dump area or as directed including cost of all materials, labour, foming steps / rampways and all other ancillary operations complete. **Note:** 1. The rate under this item is for unit quantity of soil / soft rock in slipped condition. 2. The rate under this item shall be adopted where the material can be disposed off nearby lead or where the slipped zone is inaccessible for disposal of material by mechanical mode. 3. The wieghted average rate applicable to entire quantity based on rates provided under items (8.25.1) and (8.26.1) may be considered where the slipped material consists of mixture of soil / soft rock and hard rock.	**m^3**	**422.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.26.2.	**Removing and hauling hard rock** of all toughness including boulders above 0.6 m diameter **slipped due to natural causes** including breaking large fragments by blasting if necessary and disposing off the same in specified dump area or as directed by mechanical means including cost of all materials, machinery, labour, rampways and all other ancillary operations complete. **Note:** 1. The rate under this item is for unit quantity of soil / soft rock in slipped condition. 2. The wieghted average rate applicable to entire quantity based on rates provided under items (8.25.2) and (8.26.2) may be considered where the slipped material consists of mixture of soil / soft rock and hard rock.	**m^3**	**287.00**
WRD: 8.27.	**Cleaning concrete / masonry / rock surface** for guniting / shotcreting by sand blasting method and cleaning by air and water jets after sand blasting as per specifications including cost of all materials, machinery, labour, scaffolding with all other ancillary operations complete.	**m^2**	**733.00**
WRD: 8.28.	**Drilling 25 mm / 32 mm** dia. **Holes** vertical or inclined in **concrete / masonry / rock** by percussion drilling method using jack hammer as directed to specified depth including cost of all materials, machinery, labour, cleaning holes with all other ancillary operations complete.	**m**	**310.00**
WRD: 8.29.	Supplying and fixing **rubber seals of approved quality** including cost of all materials, labour, removing existing worn out / damaged bulb type rubber seals from gates, cleaning surface, making holes in new seals, fixing new seals / bolts / nuts / washers tightly in position, scaffolding with all other ancillary operations complete.		
8.29.1	Bulb type uncladded rubber seals and hot dipped G.I bolts / nuts / washers.	**m**	**1415.00**
8.29.2.	Bulb type teflon uncladded rubber seals and hot dipped G.I bolts/nuts/ washers.	**m**	**2311.00**
8.29.3	Flat rubber seals and hot dipped G.I bolts / nuts / washers.	**m**	**1313.00**
8.29.4	Z- type rubber seals and hot dipped G.I bolts / nuts / washers.	**m**	**1692.00**
WRD: 8.30.	**Providing** and **fixing** 100 x 50 mm 10 gauge non-galvanized **weld mesh to concrete / masonry** surface including cost of all materials, machinery, labour, fixing weld mesh to exposed reinforcement bars or by driving rafter nails, scaffolding with all other ancillary operations complete.	**m^2**	**344.00**
WRD: 8.31.	**Removing PCC /Shahbad slabs** from the side lining of canal carefully and stacking the same on road side / canal bed as directed with all other ancillary operations complete.	**m^2**	**71.00**

Sl. No.	Specification	Unit	Rate ₹
WRD: 8.32.	**Providing and filling / replacing gear oil** of approved quality upto the required gauge level **for Radicon Gear unit of hoists / gantry cranes** including cost of all materials, machinery, labour with all other ancillary operations complete.	**L**	**356.00**
WRD: 8.33.	**Providing and applying grease** of approved quality to **gate and hoist components** requiring greasing as part of the annual maintenance using grease gun wherever necessary including cost of all materials,machinery, labour, scaffolding with all other ancillary operations complete.	**kg**	**432.00**
WRD: 8.34.	**Providing and applying cardium compound** of approved quality to **wire ropes of hoists / gantry cranes** as part of the annual maintenance including cost of all materials, machinery, labour with all other ancillary operations complete.	**kg**	**195.00**
WRD: 8.35	Providing and constructing **chisel drafted and hammer dressed face stone masonry** using approved stones in **cement mortor** proportion by volume including cost of all materials, machinery, labour, ramps, cleaning, packing mortar and wedging stone chips into joins, curing and all other ancillary operations complete.		
8.35.1	**Cement mortar 1 : 3**	**m^3**	**5864.00**
8.35.2.	**Cement mortar 1 : 4**	**m^3**	**5640.00**
WRD: 8.36	Supplying, fixing and commissioning **C.I Scour valve (sluice valve)** of approved make bodyand seat ring of bronze PN 1.0 conforming to IS: 14846 of specified diameter and to withstand specified pressure with all accessoreis true to line and perfect linkingwith pipes on either side including loading, unloading, lifting and placing in position, cleaning ends, inserting gaskets into correct position, jointing pipes and valve to form **water tight joint, cost of all jointing materials, machinery, labour** and all other ancillary operations complete.		
8.36.1	100 mm diameter valve with accessorries.	**SET**	**12050.00**
8.36.2	150 mm diameter valve with accessorries.	**SET**	**18660.00**
8.36.3	200 mm diameter valve with accessorries.	**SET**	**32970.00**
8.36.4	250 mm diameter valve with accessorries.	**SET**	**46890.00**
WRD: 8.37	Supplying, fixing and commissioning **C.I Tamper proof Air valve** of approved make bodyand seat ring of bronze PN 1.0 conforming to IS: 14845 of specified diameter with all fixturesincluding cost of all materials, machinery, labour and all other anicillary operations complete .		
8.37.1	80 mm diameter valve with accessorries.	**SET**	**27460.00**
8.37.2	100 mm diameter valve with accessorries.	**SET**	**32110.00**

Sl. No.	Specification	Unit	Rate ₹
8.37.3	150 mm diameter valve with accessorries.	**SET**	**59110.00**
8.37.4	200 mm diameter valve with accessorries.	**SET**	**63660.00**
WRD: 8.38	Supplying, fixing and commissioning **C.I Tamper proof Air valve** of approved make body and seat ring of bronze PN 1.6 conforming to IS: 14845 of specified diameter with all fixtures including cost of all materials, machinery, labour and all other anicillary operations complete.		
8.38.1	80 mm diameter valve with accessorries.	**SET**	**28990.00**
8.38.2	100 mm diameter valve with accessorries.	**SET**	**35810.00**
8.38.3	150 mm diameter valve with accessorries.	**SET**	**59970.00**
8.38.4	200 mm diameter valve with accessorries.	**SET**	**64800.00**

APPENDIX

Quantity of Materials

WRD : 2 : DAM AND ALLIED WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Cement kg	**Sand / FA m^3**	**CA m^3**	**Steel kg**
WRD:						
2.6.1	Consolidation grouting	t	1010.00	---	---	---
2.6.2	Curtain grouting	t	1010.00	---	---	---
2.8.	25 mm dia. dowel rod 3 m long	each	3.00	---	---	11.85
2.9.	25 mm dia. anchor rod 2.75 m long	each	2.50	---	---	10.90
			Cement kg	**Sand / FA m^3**	**CA m^3**	**Plums m^3**
2.1	M-15 CC using 80mm down CA PCC	m^3	240.00	0.38	0.98	---
2.11	M-10 CC using 80mm down CA PCC	m^3	220.00	0.38	0.98	---
2.12	M-20 CC using 40mm down CA gallery	m^3	300.00	0.38	0.86	---
2.13	M-15 CC using 40mm down CA	m^3	240.00	0.42	0.87	---
2.14	M-15 plum CC using 40mm down CA	m^3	240.00	0.37	0.74	0.22
2.15	Porous CC body drain	m	179.70	---	0.44	---
2.16.1	M-20 CC using 20mm CA Solid parapet	m	300.00	0.10	0.18	---
2.16.2	M-20 CC 20mm CA Ornamental parapet	m	300.00	0.09	0.16	---
			Cement kg	**Sand / FA m^3**	**Stones m^3**	**Steel kg**
2.18	Spillway bridge expansion joint	m	---	--	--	24.35
2.19	CR face masonry in CM 1:3 propn	m^3	179.80	0.380	1.06	---
2.20	CR face masonry in CM 1:4 propn	m^3	136.40	0.380	1.06	---
2.21	Pointing in CM 1:2 propn.	m^2	4.55	0.007	---	---
2.22	Pointing in CM 1:3 propn.	m^2	3.33	0.007	---	---
			Soil m^3	**Sand m^3**	**CA m^3**	**Stones m^3**
2.27	Impervious hearting embankment	m^3	1.26	---	---	---
2.28	Cut-off trench filling	m^3	1.26	---	---	---
2.29	Filling adjecent to structures	m^3	1.26	---	---	---
2.3	Rock toe (stones from quarry)	m^3	---	---	---	1.02
2.31	Rock toe (stones from dump yard)	m^3	---	---	---	1.02

			Cement kg	**Sand / FA m^3**	**CA m^3**	**Steel kg**
2.33	RCC Inspection/Maintenance chamber	each	1066.00	1.990	3.95	160
			Soil m^3	**Sand m^3**	**CA m^3**	**Stones m^3**
2.34	Cross filter drain	m^3	---	0.485	0.54	---
2.35.1	Vertical / Inclined filter - Sand layer	m^3	---	1.020	---	---
2.35.2	Vertical / Inclined filter - 10 mm CA layer	m^3	---	---	1.02	---
2.35.3	Vertical / Inclined filter - 20 mm CA layer	m^3	---	---	1.02	---
2.35.4	Vertical / Inclined filter - 40 mm CA layer	m^3	---	---	1.02	---
2.35.5	Vertical / Inclined filter - 80 mm CA layer	m^3	---	---	1.02	---
2.36	Filter below / behind rock toe	m^3	---	0.240	0.78	---
2.37	Filter using filter fabric and 20 mm CA	m^2	---	---	0.41	---
2.38	Sand chimney filter drain	m^3	---	1.050	---	---
2.39	Transition filter 900 mm thick	m^3	---	0.340	0.68	---
2.40.	600 mm revetment with 450 mm filter	m^2	---	0.153	0.31	0.70
2.41	600 mm revetment with 600 mm filter	m^2	---	0.204	0.41	0.70
2.42.1	600 mm riprap with 450 mm filter	m^2	---	0.153	0.31	0.70
2.42.2	750 mm riprap with 450 mm filter	m^2	---	0.153	0.31	0.88
2.42.3	900 mm riprap with 450 mm filter	m^2	---	0.153	0.31	1.05

NOTES:

1. The basic rates for item No. 2.16.1 & 2.16.2 in this chapter are inclusive of form work,centering and scaffolding charges. Other cement concrete items are exclusive of form work. Hence additionalities for form work, centering and scaffolding pertaining cement concrete items other than item No.2.16.1 and 2.16.2 in this chapter shall be added to the finished item rates as per the Addendum-I of volume -I of Unifom Common SR.

WRD : 3 : CANAL AND ALLIED WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Steel kg	**Soil m^3**	**Sand m^3**	**Stones kg**
WRD:	**Using soil from Borrow area :**					
3.2	Impervious hearting (Borrow area soil)	m^3	---	1.26	---	---
3.3	Semi-pervious casing (Borrow area soil)	m^3	---	1.26	---	---
3.4	Homogeneous embankment(Borrow area)	m^3	---	1.26	---	---
	Using soil from Dump area :					
3.5	Impervious hearting (Dump area soil)	m^3	---	1.26	---	---
3.6	Semi-pervious casing (Dump area soil)	m^3	---	1.26	---	---
	Using soil from Canal excavation :					
3.7	Impervious hearting (Canal excavation)	m^3	---	1.26	---	---
3.8	Semi-pervious casing (Canal excavation)	m^3	---	1.26	---	---
3.9	Embankment for field channel	m^3	---	1.26	---	---
			Steel kg	**Soil m^3**	**Sand m^3**	**Stones m^3**
3.10	Rubble and sand filling	m^3	---	---	0.410	1.02
3.11	Rubble and murum filling	m^3	---	0.41	---	1.02
3.12	250 mm thick Sand blanket	m^2	---	---	0.255	---
			Steel kg	**Stone/ chips m^3**	**Sand m^3**	**CA m^3**
3.13	Rock-toe	m^3	---	1.170	---	---
3.14	Longitudinal & cross drains	m^3	---	---	0.783	0.236
3.15	Inclined filter	m^3	---	---	0.612	0.408
3.16	Filter behind & below rock-toe	m^3	---	---	0.340	0.679
3.17.1	Filter using filter fabric 200 gsm	m^2	---	---	---	0.205
3.17.2	Filter using filter fabric 250 gsm	m^2	---	---	---	0.205
			Steel kg	**Soil m^3**	**Sand m^3**	**Stones m^3**
3.18	Rockfill casing (stone from quarry)	m^3	---	---	---	1.15
3.19	Rockfill casing (dump yard stones)	m^3	---	---	---	1.15
3.20	CNS lining 95 % density (borrow area)	m^3	---	1.26	---	---
3.21	CNS lining 95 % density (excavation)	m^3	---	1.26	---	---
3.22	200x200x750 mm Canal bed level stone	each	---	---	---	0.03

			Slab m^3	**Cement kg**	**Sand m^3**	**CA m^3**
3.23.1	80 mm th. M-15 CC 20mm CA by paver	m^2	---	240.00	0.04	0.07
3.23.2	100 mm th. M-15 CC 20mm CA by paver	m^2	---	240.00	0.05	0.08
3.24.1	80 mm th. M-20 CC 20mm CA by paver	m^2	---	300.00	0.04	0.07
3.24.2	100 mm th. M-20 CC 20mm CA by paver	m^2	---	300.00	0.04	0.08
3.26.1	M-15 CC (20 mm CA) for side lining	m^3	---	240.00	0.48	0.79
			Slab m^3	**Cement kg**	**Sand m^3**	**CA m^3**
3.26.2	M-20 CC (20 mm CA) for side lining	m^3	---	300.00	0.42	0.77
3.27	M-15 CC (40 mm CA) for bed lining	m^3	---	240.00	0.42	0.87
3.28	M-20 CC (40 mm CA) for bed lining	m^3	---	300.00	0.38	0.86
3.31	Filter around relief pipe	each	---	---	0.034	0.016
3.32	Fixing Shahbad slab for lining in CM 1:3	m^2	0.030	1.00	0.002	---
3.33	Fixing PCC slab for lining in CM 1:3	m^2	0.050	2.33	0.005	---
3.34	Fixing PCC lug slab in CM 1:3	m	0.017	0.60	0.001	---
3.36	Notes:Providing 75 mm sand backing	m^2	---	---	0.077	---
3.38.1	M-15 PCC slab 550 x 550 x 55 mm	each	---	5.54	0.009	0.013
3.38.2	M-15 PCC slab 550 x 300 x 55 mm	each	---	2.96	0.004	0.007
3.39.1	M-15 PCC slab 450 x 300 x 30 mm	each	---	1.95	0.002	0.003
3.39.2	M-15 PCC slab 450 x 150 x 30 mm	each	---	1.03	0.001	0.001
3.39.3	M-15 PCC slab 400 x 400 x 30 mm	each	---	2.24	0.002	0.003
3.39.4	M-15 PCC slab 400 x 150 x 30 mm	each	---	0.96	0.001	0.001
			Murum m^3	**Cement kg**	**Sand m^3**	**Stones m^3**
3.40.1	UCR in CM 1:5 (quarry stone)	m^3	---	115.20	0.410	1.17
3.40.2	UCR in CM 1:5 (excavated stone)	m^3	---	115.20	0.410	1.17
3.41.1	250 mm thick UCR stone pitching	m^2	---	---	---	0.29
3.41.2	300 mm thick UCR stone pitching	m^2	---	---	---	0.35
3.42	450 mm thick UCR stone pitching	m^2	---	---	---	0.50
Note:	If 150 mm thick murum bed provided		0.18	---	---	---
3.43	300 mm thick UCR pitching in CM 1:5	m^2	---	30.23	0.107	0.35
Note:	If 150 mm thick murum bed provided		0.18	---	---	---
3.44.1	300 mm thick Khandki stone pitching	m^2	---	---	---	0.35
3.44.2	450 mm thick Khandki stone pitching	m^2	---	---	---	0.50
Note:	If 150 mm thick murum bed provided		0.18	---	---	---
3.45.1	300 mm thick Khandki pitching in CM1:5	m^2	---	29.16	0.099	0.35
3.45.2	450 mm thick Khandki pitching in CM1:5	m^2	---	40.70	0.142	0.50
Note:	If 150 mm thick murum bed provided		0.18	---	---	---

WRD : 4 : CANAL CROSS DRAINAGE WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Steel kg	**Cement kg**	**Sand / FA m^3**	**CA m^3**
WRD:						
4.2.	25 mm dia. anchor rod	each	9.740	0.51	---	---
4.3	M-15 (80 mm CA) for foundation filling	m^3	---	240.00	0.38	0.98
4.4	M-10 (80 mm CA) for foundation filling	m^3	---	220.00	0.38	0.98
4.5.	M-20 (40 mm CA) for well steining	m^3	---	300.00	0.38	0.86
4.6.	M-15 (40 mm CA) for well top plug	m^3	---	240.00	0.42	0.87
4.7.	M-15 (40 mm CA & plums) for piers/ abutment	m^3	---	240.00	0.37	0.96
			Stone m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
4.8.1	UCR masonry in CM 1:4 for sub-structure	m^3	1.020	144.50	0.410	---
4.8.2	UCR masonry in CM 1:4 super structure	m^3	1.020	144.50	0.410	---
4.9.1	CR 2nd sort masonry in CM 1:4 propn	m^3	1.020	134.40	0.355	---
4.9.2	CR 1st sort masonry in CM 1:4 propn	m^3	1.020	134.40	0.355	---
4.10	Pointing masonry in CM 1:2 propn	m^2	---	3.88	0.006	---
			BS Slab m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
4.11.1	Roughly dressed BS slab coping in CM	m^2	0.105	7.50	0.002	---
4.11.2	One line dressed BS slab coping in CM	m^2	0.105	7.50	0.002	---
4.11.3	Two line dressed BS slab coping in CM	m^2	0.105	7.50	0.002	---
			Steel kg	**Cement kg**	**Sand / FA m^3**	**CA m^3**
4.12	Railing	m	1.56	3.50	0.003	0.006
4.13.1	Jointing hume pipe 300 mm dia	Joint	---	10.10	0.010	---
4.13.2	Jointing hume pipe 450 mm dia	Joint	---	17.50	0.022	---
4.13.3	Jointing hume pipe 600 mm dia	Joint	---	24.80	0.026	---
4.13.4	Jointing hume pipe 700 mm dia	Joint	---	32.50	0.032	---
4.13.5	Jointing hume pipe 800 mm dia	Joint	---	40.00	0.040	---
4.13.6	Jointing hume pipe 900 mm dia	Joint	---	45.00	0.046	---
4.13.7	Jointing hume pipe 1000 mm dia	Joint	---	50.00	0.051	---
4.13.8	Jointing hume pipe 1100 mm dia	Joint	---	57.60	0.061	---
4.13.9	Jointing hume pipe 1200 mm dia	Joint	---	67.70	0.071	---
			Stone m^3	**Soil m^3**	**Sand / FA m^3**	**CA m^3**
4.14	Rubble and sand filling for foundation	m^3	1.020	---	0.408	
4.15	CNS soil filling around pipes	m^3	---	1.20	---	---
4.16.	CNS soil filling above pipes	m^3	---	1.20		

WRD : 5 : TUNNEL AND ALLIED WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Steel kg	**Cement kg**	**Sand / FA m^3**	**CA m^3**
WRD:						
5.8	25 mm th. Guniting in CM 1:3 propn	m^2	---	16.80	0.030	---
5.9	25 mm dia rock bolt using wedge	m	7.75	---	---	---
5.10	25 mm dia rock bolt using capsule	m	7.45	---	---	---
5.11	Permanent steel supports	t	1025.00	---	---	---
			Stone m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
5.13	UCR masonry in CM 1:6 propn	m^3	0.975	96.00	0.410	---
			Steel kg	**Cement kg**	**Sand / FA m^3**	**CA m^3**
5.14	M-10 CC using 40 mm down CA	m^3	---	220.00	0.420	0.870
5.15	M-20 CC using 40 mm down CA	m^3	---	300.00	0.420	0.870
5.16	M-20 CC using 40 mm down CA	m^3	---	300.00	0.430	0.810

NOTES:

1. The basic rates for item No.5.14 & 5.15 in this chapter are exclusive of form work, centering and scaffolding charges. Hence additionalities for form work, centering and scaffolding pertaining to cement concrete Item No.5.14 and 5.15 in this chapter shall be added to the finished item rates as per the Addendum-I of volume -I of Unifom Common SR.

WRD : 7 : LIFT IRRIGATION WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Steel kg	**Cement kg**	**Sand / FA m^3**	**CA m^3**
WRD:						
7.3	Acid resisting tiling/dadooing in CM 1:3	m^2	**---**	9.30	0.02	---
	MI Specific:					
			kg	**Cement kg**	**Sand / FA m^3**	**CA / Stone m^3**
7.18	15 mm thick inner guniting in CM 1:1.5	m^2	---	13.13	0.012	---
7.19	25 mm thick outer guniting in CM 1:3	m^2	---	15.91	0.031	0.006
			Pipe kg	**Cement kg**	**Sand / FA m^3**	**CA /Stone m^3**
7.20	Supplying P-2 class RCC Spun pipe					
7.20.1	400 mm	m	180.00	---	---	---
7.20.2	450 mm	m	200.00	---	---	---
7.20.3	500 mm	m	230.00	---	---	---
7.20.4	600 mm	m	290.00	---	---	---
7.20.5	700 mm	m	350.00	---	---	---
7.20.6	800 mm	m	400.00	---	---	---
7.20.7	900 mm	m	460.00	---	---	---
7.20.8	1000 mm	m	520.00	---	---	---
7.20.9	1100 mm	m	580.00	---	---	---
7.20.10	1200 mm	m	650.00	---	---	---
7.21	Supplying P-3 class RCC Spun pipe			---	---	---
7.21.1	400 mm	m	180.00	---	---	---
7.21.2	450 mm	m	200.00	---	---	---
7.21.3	500 mm	m	230.00	---	---	---
7.21.4	600 mm	m	290.00	---	---	---
7.21.5	700 mm	m	350.00	---	---	---
7.21.6	800 mm	m	400.00	---	---	---
7.21.7	900 mm	m	460.00	---	---	---
7.21.8	1000 mm	m	520.00	---	---	---
7.21.9	1100 mm	m	580.00	---	---	---
7.21.10	1200 mm	m	650.00	---	---	---

WRD : 8 : PRELIMINARY & MAINTENANCE WORKS

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Murum m^3	**Cement kg**	**Sand / FA m^3**	**Stone m^3**
WRD:						
8.7	200x200x750 mm boundary stone fixing	each	0.055	---	---	0.030
			Stone m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
8.8	Temporary BM in CC 1:4:8	each	0.030	9.10	0.025	0.050
8.9	Permanent BM in CC 1:3:6 with UCR wall	each	0.320	262.00	0.600	1.000
8.11	Reconstruction of revetment	m^2	---	---	0.153	---
8.12	Reconstruction of rock-toe	m^3	---	---	0.098	---
8.13	Resetting Shahbad slabs in CM 1:3	m^2	---	1.00	0.002	---
			Soil m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
8.17.1	Impervious hearting with borrow area soil	m^3	1.20	---	---	---
8.17.2	Impervious hearting using dump area soil	m^3	1.20	---	---	---
8.18.1	Semipervious casing with borrow area soil	m^3	1.20	---	---	---
8.18.2	Semipervious casing using dumparea soil	m^3	1.20	---	---	---
8.22	Cleaning gates by sand blasting	m^2	---	---	0.300	---
			Cement kg	**Sand / FA m^3**	**Stones m^3**	**Steel kg**
8.35.1	Chisel drafted CR face masonry in CM1:3	m^3	167.70	0.357	1.08	---
8.35.2	Chisel drafted CR face masonry in CM1:4	m^3	127.30	0.357	1.08	---

MINOR IRRIGATION & GROUND WATER DEVELOPMENT DEPARTMENT

VOLUME - IV

PART - II

MINOR IRRIGATION SPECIFIC ITEMS FOR THE YEAR : 2023-24

SCHEDULE OF RATES FOR
MINOR IRRIGATION SPECIFIC ITEMS

INDEX

BASIC DATA

STATEMENT OF RATES FOR MATERIALS
FOR BELOW MATERIALS MINOR IRRIGATION SoR SHALL BE REFERRED

SL. NO	MATERIAL DESCRIPTION	HSN Code	UNIT	RATE IN Rs.
1	Isoptholic Marine grade UV stabilized Gelcoat	39079120	kg	279.5
2	Isoptholic Marine grade UV stabilized Resin	39079120	kg	299
3	450 GSM E grade Fiber glass Chopped strand matt	70191500	kg	292.5
4	610 GSM Owen rowings E grade	70196100	kg	240.5
5	60*40mm GSM G.I. Pipe	73066100	kg	179.4
6	Blue colour Pigment chemical composition	32064990	kg	486.2
7	Accelerator Cobalt Napthenate	32110000	kg	728
8	Catalyst	29096000	kg	273
9	Mould releasing agent Poly Vinyl Alcohol	39053000	kg	1560
10	EPDM Rubber seal 25mm x 25mm	4008	m	325
11	SAE 10 OIL	27101980	L	160
12	Transformer oil		L	120
13	Hard wood (Kiral-bogi or similar variety) planks		m^3	36017
14	Silicon Sealent	80930	300 ml	140.00
15	Adhesive	300510	10 ml	60.00
16	Polyster ISO marine grade gelcoat	390799	kg	286.00
17	Polyster ISO marine grade Resin	390799	kg	246.00
18	Methyl ethyl ketone peroxide	29096000	kg	236.00
19	Cobalt naptulite	2834	kg	496.00
20	polyglass sheet 3mm thick		m^2	1271.00
OTHER THAN ABOVE MATERIALS ***Refer common SR Vol I, II ,III & volume IV Part - 1***				

DAM / BARRAGE/CANAL ALLIED AND CANAL CROSS DRAINAGE WORKS

Sl. No.	Specification	Unit	Rate ₹
	1. DAM / BARRAGE/CANAL ALLIED and CANAL CROSS DRAINAGE WORKS SCHEDULE OF RATES		
1.1	Providing and constructing 75 mm dia PVC **pipe weep holes** for concrete / masonry walls including providing 200 x 200 x 200 mm size porous concrete block made of cement and 20 mm down coarse aggregate in 1 : 4 proportion including 100 mm thick sand backing at the junction of wall and soil back fill, cost of all materials, machinery, labour **& all necessary works as directed and complete as per specification.**	**m**	**337.00**
1.2	Providing **impervious filling adjacent to masonry / concrete** structure and **filling trial pits with soil available in adjacent area** in layers of 100 to 150 mm and compacting each layer to density control of not less than 95 percent using pneumatic tampers or by vibratory earth rammers including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering **& all necessary works as directed and complete as per specification.**	**m^3**	**257.00**
1.3	Providing **sand cement bed with 5% cement** with all leads for all materials and lifts machine mixed, laid in layers of 15 cms. Thick and well compacted for foundation including curing cost, cost of all materials, machinery, labour including preparing surface, **& all necessary works as directed and complete as per specification.**	**m^3**	**3244.00**
1.4	Providing **sand cement bed with 10% cement** with all leads for all materials and lifts machine mixed, laid in layers of 15 cms. Thick and well compacted for foundation including curing cost, cost of all materials, machinery, labour including preparing surface, **& all necessary works as directed and complete as per specification.**	**m^3**	**3760.00**
1.5	Providing and constructing 550 mm thick **hand packed rough stone revetment** consisting of 300 mm thick rough stones with 400 to 450 mm long through stones at 1.5 m c / c over filter backing of 100 mm thick sand and 150 mm thick 40 mm down graded coarse aggregate layers including cost of all materials, machinery, labour, laying to specified slope, wedging with chips, finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**946.00**
1.6	Providing and constructing 450 mm thick **hand packed rough stone revetment** consisting of 300 mm thick rough stones with 400 to 450 mm long through stones at 1.5 m c / c over a backing of 150 mm thick 40 mm down graded coarse aggregate layer including cost of all materials machinery, labour, laying to specified slope, wedging with chips, finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**735.00**

Sl. No.	Specification	Unit	Rate ₹
1.7	Providing and constructing 450 mm thick hand packed rough stone revetment consisting of 300 mm thick rough stones with 400 to 450 mm long through stones at 1.50 m c / c over a backing of 100 mm thick 40 mm down graded coarse aggregate for embankment used for kharland and SWED works in coastal area irrespective of any width and slant height of bund in any direction in any tidal variations conditions with watery situation including cost of all materials, transportation ,labour, hand packing, finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**883.00**
1.8	Providing **rubble stone/boulder filling between or behind abutment below apron** including cost of all materials, labour, hand packing, finishing top surface **& all necessary works as directed and complete as per specification.**	**m^3**	**1278.00**
1.9	Available rubble stone/boulder filling between or behind abutment/ below apron including cost of labour, hand packing, finishing top surface **& all necessary works as directed and complete as per specification.**	**m^3**	**479.00**
1.10	Providing and laying Hariyala or other approved quality turfing sods for the slopes of earthen embankments over 20 mm thick sand backing including cost of all materials, machinery,labour including preparing surface, spreading sand including tamping, watering for 15 days **& all necessary works as directed and complete as per specification.**	**m^2**	**153.00**
1.11	Providing 100 mm thick approved type grass turfing to side slopes of canal icluding cost of all materials, labour, watering for minimum 15 days **& all necessary works as directed and complete as per specification.**	**m^2**	**154.00**
1.12	Providing and laying insitu vibrated M-20 (28 days cube compressive strength not less than 20 N / sq mm) grade cement concrete using 20 mm down size approved, clean, hard, graded aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, including cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing, centering, formwork and scafolding and all other appurtenances required to complete the work as per technical specifications for **check dam /pickups /irrigation tanks/waste weir/ sluice, sluice canal and other allied works like abutments/wing walls/returns/cutoff walls works & all necessary works as directed and complete as per specification.**	**m^3**	**6955.00**

GATE / HOIST AND ALLIED WORKS

Sl. No.	Specification	Unit	Rate ₹

GATE / HOIST AND ALLIED WORKS
SCHEDULE OF RATES

	GATES AND HOISTS FOR DAM :		
2.1	Design,fabrication, supply, erection, testing and commissioning adequate capacity manually operated **moving gantry crane** consisting of wheel mounted gantry frame, roller mounted chain and pulley cross travel system moving along beam fixed to gantry top frame with all accessories for operating stoplog elements including cost of all materials, machinery, labour, cutting, bending, aligning, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint **& all necessary works as directed and complete as per specification.** **Note:** Capacity of gantry crane in tonnes including 25 % reserve capacity = 2.5 x (Weight of 1 set of stoplog gate / Number of elements). (Hoist capacity shall be rounded off to next 5 tonne) Weight of moving gantry crane : 1.25 tonne per tonne capacity of gantry.	**Tonne capacity**	**117022.00**
2.2	Fabrication, supply, erection, testing and commissioning of **sliding type** vertical lift gate consisting of skin plate, horizontal and vertical stiffeners, seal seats, sponge rubber seals lifting handles & all necessary works with **all accessories for vented dam / field channel** including cost of all materials, labour, cutting, aligning, welding, finishing, cleaning, applying two coats of anti-corrosive bituminous black paint over a coat of zinc chromate red oxide specifications and primer paint, seal fixing **& all necessary works complete as per approved drawings and as directed and complete as per specification.**	**kg**	**201.00**
2.3	Fabrication, supply, erection, testing and commissioning of **plug and rod type hoist assembly** consisting of truncated upright cone type cast iron plug fixed to alloy steel screw hoist with supporting structure **for** operating circular sluice openings including cost of all materials, labour, machinery, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc chromate red oxide primer and three coats anti-corrosive bitumineous black paint **& all necessary works as directed and complete as per specification.**	**kg**	**238.00**
2.4	Supplying and fixing FRP Needle gate made out of concealed GI tubes of suitable size & thickness. Zinc coating of not less than 360GSM, I.S make hot rolled from any reputed pipe manufacturing company. FRP wrapping all-round the pipe minimum thickness of 4mm and wall thickness of plates not less than 6mm. made out of Isoptholic polyester resin UV stabilized marine grade and fibre glass chopped strands of 450 GSM electrical grade with gel coat finish. The water seals to be made out of synthetic rubber (EPDM) and housed in anodized aluminium housing		

Sl. No.	Specification	Unit	Rate ₹
	as per design and drawing issued according to site conditions with the warranty of 5 years for any manufacturing defects, **& all necessary works as directed and complete as per per specification.**		
	For 0 to 2.20m width		
a	For 0 to 2.00 m Height	**m^2**	**27921.00**
b	For 2.00m to 3.00 m Height	**m^2**	**32251.00**
c	For 3.00 to 4.00 m Height	**m^2**	**37214.00**
	For 2.20m to 4.20m width		
d	For 0 to 2.00 m Height	**m^2**	**30539.00**
e	For 2.00m to 3.00 m Height	**m^2**	**34869.00**
f	For 3.00 to 4.00 m Height	**m^2**	**39832.00**
2.5	Supply and fixing of FRP "C" section frame of size 100mm and wall thickness of 8mm (#1mm) and Rib thickness of 12mm smooth finish with marine grade gel coat, with side projections at every 1 meter interval to hold the frame firmly in concrete including tie bar at top and key holes provided to tie the binding wire with reinforcement to maintain the alignment. FRP frames should be flushed to the top of the pier level after concreting to avoid damages of frames by debris of flood water. Binding of glass fibre mat must be Isoptholic polyester resin of marine grade with UV stabilizer to withstand all weather conditions and saline water (For any size). Anchor brackets to be provided to avoid the uplift of needles on either side of the groove, **& all necessary works as directed and complete as per per specification.**	**m^2**	**3825.00**
2.6	Providing and fixing "Molded Fiber Composite Flap Gate" made of composite material fiberglass reinforced plastic sandwiched with MS prefabricated hinge structure assembled on outer ring fixed on hume pipe, polypropylene glass lined, operating on Non-Return valve principle, embedded in polyester resin and glass roving and covered MS structure from all sides in molding by contact molding process, gate shall withstand for minimum 4.50 meter water head against hydrostatics pressure, engraved and molded project name **& all necessary works as directed and complete as per per specification.**		
a	For 600mm Dia Pipe	**No.**	**49904.00**
b	For 900mm Dia Pipe	**No.**	**60573.00**
c	For 1200mm Dia Pipe	**No.**	**70554.00**
d	For 1500mm Dia Pipe	**No.**	**115094.00**

Sl. No.	Specification	Unit	Rate ₹
2.7	Providing ,Supplying and fixing **M.S. gates of Suitable size with required number of M.S. plate , stiffners, and horizontal bracing** of ISMC 75*40 including rubber guard of ISA 20*4 of approved quality to bottom & two sides and to be fixed to the grove of M.S. gate of size 25 mm with machine screw nuts and bolts of size 6mm dia & 35mm long and fixed with 16mm dia MS bar handles with required numbers suitably welded to horizontal bracing including two coats of anti-corrosive bituminous paint over a coat of primer **& all necessary works as directed and complete as per per specification.**	**kg**	**173.00**
2.8	Providing and fixing M.S. Channel frame to suite the suitable size of gates. The side channels with suitable height with hold fasts 12mm dia and 0.5m long M.S. Bar at 0.50 m c/c with suitable size bottom channel including cost of all materials including two coats of anti corrosive paint over a coat of primer **& all necessary works as directed and complete as per per specification.**	**kg**	**84.00**
2.9	Removing the MS element stoplog Gate for Barrages/ Vented Dam including conveying of gates to Store Yard and Stacking as directed including cost of labour, **& all necessary works as directed and complete as per per specification.**		
	a) Water storage height upto 3.00m	**kg**	**6.00**
	b) Water storage height 3.00m to 4.00m	**kg**	**4.00**
	c) Water storage height above 4.00m	**kg**	**2.00**
2.10	Inserting the MS element stoplog Gate for Barrages/ Vented Dam including conveying of gates from Store Yard to Barrage/ Vented Dam as directed including cost of labour, **& all necessary works as directed and complete as per per specification.**		
	a) Water storage height upto 3.00m	**kg**	**5.00**
	b) Water storage height 3.00m to 4.00m	**kg**	**3.00**
	c) Water storage height above 4.00m	**kg**	**2.00**

PRELIMINARY AND MAINTENANCE WORKS

Sl. No.	Specification	Unit	Rate ₹

PRELIMINARY AND MAINTENANCE WORKS
SCHEDULE OF RATES

	MAINTENANCE WORKS :		
3.1	Removing disturbed rough / size **stone revetment** 300 mm thick with 150 mm thick 40 mm down aggregate backing and **resetting** the same using the available stones and aggregate including packing, wedging, finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**137.00**
3.2	Removing disturbed rough / size **stone revetment** 300 mm thick with 150 mm thick 40 mm down aggregate backing and **resetting** the same using the **available stones** and **fresh aggregate** from quarry including handpacking, wedging, finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**372.00**
3.3	**Strengthening** existing **revetment / pitching by wedging** with 40-20 mm size **aggregate** including cost of all materials, machinery, labour, surface finishing **& all necessary works as directed and complete as per specification.**	**m^2**	**50.00**
3.4	**Cutting open existing bund by manual means** and forming temperary diversion channel including placing the excavated soil in specified dump **area & all necessary works as directed and complete as per specification.**	**m^3**	**394.00**
3.5	**Re-constructing the cut open bund** portion, for forming temperary diversion channel, **using soil obtained from bund cutting** in layers of 150 to 200 mm thickness before compaction including cost of all labour, materials, machinery, all operations such as sorting out, spreading in layers of specified thickness, breaking clods, sectioning, watering, compacting each layer to **density control of not less than 95 percent** or as directed using mechanical tampers or by manual labour **& all necessary works as directed and complete as per specification.**	**m^3**	**536.00**
3.6	**Preparing slope of existing bund** (without pitching) for abutting fresh embankment to strengthen the existing bund by removing grass and other vegitation including disposing off the material **& all necessary works as directed and complete as per specification.**	**m^2**	**3.00**
3.7	Providing **new embankment** abutting to existing bund **to strength the existing bund** using soil from approved **borrow area** in layers of 200 to 250 mm and compacting each layer to **density control of not less than 95 percent** by vibrating plate compactor or pnuematic tamper including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering **& all necessary works as directed and complete as per specification.**	**m^3**	**454.00**

Sl. No.	Specification	Unit	Rate ₹
3.8	Providing **new embankment** abutting to existing bund **to strength the existing bund using soil** available **in adjacent area** in layers of 200 to 250 mm and compacting each layer to **density control of not less than 95 percent** by vibrating plate compactor or pnuematic tamper including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering, Royalty **& all necessary works as directed and complete as per specification.**	**m^3**	**197.00**
3.9	**Removing damaged rubber seal from gate** and **fixing new rubber seal** (excluding cost of rubber seal and bolts) including cleaning seal seat, valcanizing seal wherever necessary, forming holes in seal, fixing in **place & all necessary works as directed and complete as per specification.**	**m**	**241.00**
3.10	**Supplying hard wood** (Kiral-bogi or similar variety) **planks** of specified length and thickness for vents of vented dam including cost of all material,machinery, labour **& all necessary works as directed and complete as per specification.**	**m^3**	**48668.00**
3.11	**Conveying and fixing hard wood** (Kiral-bogi or similar variety) **planks** of specified size for vents of vented dam including applying 2 coats of approved quality asphalt, cost of all materials, machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**279.00**
3.12	**De-silting of Feeder Channel/Canal in dry condition** by excavating the deposited bed material and loading the same to transport vehicle (excluding cost of transportation) including cost of all machinery, **labour & all necessary works as directed and complete as per specification.**	**m^3**	**54.00**
3.13	**De-silting of Feeder Channel/Canal in dry condition** by excavating the deposited bed material and disposing off the same by stacking/ formation of Embankment or as directed including cost of all machinery, **labour & all necessary works as directed and complete as per specification.**	**m^3**	**94.00**
3.14	**Replacing** old / damaged 25 x 25 mm **sponge rubber seals and bolt / nut / washers** of gate and **fixing new seals / bolts / nuts / washers** including cost of all materials, labour, adhesive, **& all necessary works as directed and complete as per specification.**	**m**	**348.00**
3.15	Providing **new embankment** to **slopes of the existi**ng bund **to strength the existing bund** using soil from approved **borrow area** in layers of 200 to 250 mm and compacting each layer **manually** to meet required **density** including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering, **& all necessary works as directed and complete as per specification.**	**m^3**	**468.00**

Sl. No.	Specification	Unit	Rate ₹
3.16	Providing and constructing **Size Stone/Coursed/ uncoursed rubble** stone masonry in **CM 1 : 5** proportion **using available stones** including cost of all materials, machinery, labour, forming weep holes at specified intervals, finishing, curing **& all necessary works as directed and complete as per specification.**	**m^3**	**1939.00**
3.17	**Removing / refixing the Barrage / dam, gates / vents including** Conveying the gates to store yard and stacking all materials seperately and same as to be re inserted as directed including cost of all materials, machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**684.00**
3.18	**Lifting of lowered mechanically operated vertical lift gates** from vents of vented dam and dogging the gates on resting platform including Power supply arrangements, hire charges of DG set, Mobile crane to handle the gates in case of Mechanical Failure, cost of laboures for operating the gates,removal of weeds & debries accumulated around the gates, transportation charges, including cost of all machinery, labour, cleaning **& all necessary works as directed and complete as per specification.**	**m^2**	**797.00**
3.19	Lowering of the vertical lift gates from the vents ofvented dam from dogging position for storing the water to its capacity by ensuring complete sealing of the gate without any leakages includes Power supply arrangements,Hiring Charges for DG set, Mobile crane to handle the gates in case of mechanical Failure,Cost of laboures for operating gates,roller & gate allignments,minor Mechanical repairs,groove cleaning, Gates cleaning, Spargear assembly cleaning,Removal of stumps & due roots of bamboo clusters,debries & weeds around the gates,Underwater diving expert with all Diving Equipment for proper sealing of the gate, transportation charges, Charges for Ensuring complete sealing till lifting of gates before commencement of mansoon,Charges for operating the gates in case of **Sudden floods in the catchment area including cost of all machinery, labour, cleaning & all necessary works as directed and complete as per specification.**	**m^2**	**2395.00**
3.20	Providing **homogeneous embankment using soil from approved borrow area** mixed with 5% cement with machine mixed and laid in layer of 0.30m thick and well compacted for ground stabilisation including cost of all materials, machinery,labour, all operations such as excavation, sorting out, transportation, spreading treated soil in layer of specified thickness, breaking clods, sectioning, watering, compacting to **density control of not less than 95 percent** using power roller **& all necessary works as directed and complete as per specification.**	**m^3**	**1100.00**
3.21	Earthwork excavation for trial pits / borrow pits and other investigation works in all kinds of soil including boulders upto 0.30 m dia and disposing off excavated soil **& all necessary works as directed and complete as per specification.**	**m^3**	**394.00**

Sl. No.	Specification	Unit	Rate ₹
3.22	Removing dry stone revetment and stacking the released materials **& all necessary works as directed and complete as per specification.**	**m^3**	**287.00**
3.23	**Removing the FRP Gates/needles** including cleaning both side and Conveying the gates from vents to store yard and stacking all materials seperately including cost of all materials,machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**713.00**
3.24	**Refixing the FRP Gates/needles** in position including cleaning the bottom of the channel to seat the needles properly replacing the damaged rubber seals if any using adhesive, refilling the grooves of the rubber seal with silicone sealant, driving of the wooden pegs not less than 4 nos in each FRP needles from upstream side, including cost of all materials,machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**783.00**
3.25	**Removing old planks from vents of Vented Dam**, cleaning both sides of planks & applying two coats of approved quality asphalt and stacking in store shed including cost of all materials,machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**564.00**
3.26	**Refixing of old planks** stacked in store shed, to the vents of Vented Dam as per the directions of Engineer in charge of the work including cost of all materials,machinery, labour **& all necessary works as directed and complete as per specification.**	**m^2**	**500.00**
3.27	**Excavating grip trenches** of specified size in all kinds of soil in existing bund for abutting fresh embankment to strengthen the existing bund including disposing off the excavated soil in in specified dump area **& all necessary works as directed and complete as per specification.**	**m^3**	**250.00**
3.28	Providing and fixing 150 x 150 x 450 mm size top surface neatly dressed canal bed level stones including cost of all materials, labour, excavation, fixing in position to correct level **& all necessary works as directed and complete as per specification.**	**Each**	**136.00**

Detailed specification for Entrustment of preparation of DPR to Consultants.

Preparation of Detailed Project Report (D.P.R) which comprises of following aspects

(FOR IRRIGATION WORKS)

- Conducting Reconnaissance and detailed survey at the project site taking L/s,C/s of river/stream/halla at100m intervals both on upstream and downstream side of the site,for a distance of 500m.
- The index map showing the location of project site and indicating the project site on a toposheet showing the catchment area.
- Preparation of plan, sectionalelevational drawing of all the components as per detailed Designs computations bases on Trial pit/Trial Bore details.
- Preparation of Estimates as per the direction of Site Engineers.
- Supplying Require Numbers) about 15 to 20 copies) of DPRs for placing before TAC and attending to the observations of TAC/TSC, till it accords clearance to the Project and supplying the finalized DPR in required numbers (about 6 copies) to accord Administrative approval and technical sanction etc., complete as per the directions of Engineer-in-charge.

Sl.No	Description	Maximum Percentage
1	Estimate costing upto Rs.200.00 lakhs	Shall be prepared by the Departmental Engineers only
2	Estimate costing more than 200.00 lakhs upto Rs. 500.00 lakhs	0.5% of the Estimated Cost
3	Estimate costing more than 500.00 lakhs upto Rs. 1000.00 lakhs	0.40% of the Estimated cost or Rs.2.5 Lakhs whichever is more.
4	Estimate costing more than Rs.10.00 crores upto 500.00 crores	0.25% of the Estimated Cost or Rs.4.00 lakhs whichever is more.
5	Estimate costing more than Rs.500.00 crores upto 1000.00 crores	0.20% of the Estimated Cost or Rs.1.00 crore whichever is more.
6	Estimate costing more than Rs.1000.00 crores	0.10% of the Estimated Cost or Rs.2.00 crore whichever is more.

NOTE :

1. The Karnataka Transparency Act 1999 and procurements rules 2000 and subsequent amendments should be followed while entrusting the above work to approved consultants.
2. Estimated cost is applicable to the work portion only. (Excluding Lump sum provisions, miscellaneous, Land acquisition etc.,)
3. The above consultant percentage is applicable to new project only. (Excluding Improvements/ Renovations work)

APPENDIX:
QUANTITY OF MATERIALS

1. DAM / BARRAGE/CANAL ALLIED and CANAL CROSS DRAINAGE WORKS

QUANTITY OF MATERIALS REQUIRED

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Cement kg	**Sand / FA m^3**	**CA m^3**	**Pipe/Steel kg**
1.1	PVC pipe with porous CC for weep hole	**m**	1.10	0.007	**0.003**	**---**
			Soil m^3	**Sand m^3**	**CA m^3**	**Stones m^3**
1.2	Filling adjecents with available soil	**m^3**	**1.26**	**---**	**---**	**---**
1.5	300 mm pitching over 250 mm filter backing	**m^2**	**---**	**0.153**	**0.15**	**0.35**
1.6	300 mm pitching with 150mm CA backing	**m^2**	**---**	**---**	**0.15**	**0.35**
1.7	constructing 450 mm thick hand packed with 100mm CA backing	**m^2**	**---**	**---**	**0.1**	**0.25**
1.8	Rubble / boulder filling behind abutment	**m^3**	**--**	**---**	**---**	**1.02**
			Soil m^3	**Cement kg**	**Sand/FA m^3**	**CA m^3**
1.10	Hariyala Turfing for embankment	**m^2**	0.08 (sods)	**---**	0.02	**---**
1.11	Hariyala Turfing for canal slopes	**m^2**	0.10 (sods)	**---**	0.02	**---**
1.12	M-20 CC (20mm CA)	**m^3**	-	0.32	0.425	0.85

3. PRELIMINARY AND MAINTENANCE WORKS

QUANTITY OF MATERIALS REQUIRED

Item No.	Description of work	Unit	Quantity of materials required per unit quantity of work			
			Stone m^3	**Cement kg**	**Sand / FA m^3**	**CA m^3**
3.2	Reconstruction of revetment 300 mm thick	**m^2**	---	---	**---**	0.153
3.3	Strengthening pitching by wedging CA	**m^2**	---	---	**---**	0.010
			Soil m^3	**Cement kg**	**Sand/FA m^3**	**CA m^3**
3.7	New embankment abutting existing bund	**m^3**	1.20	---	**---**	**---**
3.15	New embankment abutting existing bund	**m^3**	1.20	---	**---**	**---**
3.16	Construction of Masonry available stone	**m^3**	---	115.20	0.41	**---**
			CA m^3	**Cement kg**	**Sand/FA m^3**	**Stones m^3**
3.28	150 x 150 x 450mm canal bed level stones	**Each**	---	---	---	**0.01**

KARNATAKA POWER CORPORATION LTD.

[A GOVERNMENT OF KARNATAKA UNDERTAKING]

KARNATAKA POWER CORPORATION LTD

VOLUME - IV

PART - III

SCHEDULE OF RATES FOR THE YEAR 2023-24 FOR KPCL SPECIFIC ITEMS

HYDRO ELECTRIC AND THERMAL POWER PROJECTS

KPCL SCHEDULE OF RATES

INDEX

General Notes to the KPCL Schedule of Rates

1. The rates for finished items of work except otherwise mentioned in specific items are inclusive of all leads and lifts.

2. The rates for materials/machineries/labours provided in this SR are exclusive of GST.

3. The rates for the finished items are inclusive of cost of all materials, machinery, labour, 1% water charges wherever required, contractor's profit at 10% and overhead charges at 10%.

4. The rates for concrete items are inclusive of standard finishing to the surfaces such as repairing honeycombs, uneven surface etc., wherever necessary.

5. The rates for finished items of work are exclusive of centering, formwork and scaffolding except otherwise mentioned in specific items. The additionalities for centering, formwork and scaffolding shall be added to the finished items as per the Appendix –I of Volume-I of Common SR.

6. General notes mentioned in Common Schedule of Rates Vol. I, II & III are applicable to KPCL works.

LIST OF ABBREVIATIONS – KPCL ORGANIZATION SPECIFIC ITEMS SR

AC	Asbestos cement	ltr	Litre
BB	Burnt Brick	mm	Millimetre
BBM	Burnt Brick Masonry	MS	Mild Steel
CA	Coarse Aggregate	No.	Number
CC	Cement Concrete	N	Newton
CGI	Corrugated Galvanized Iron	NB	Nominal Bore
CM	Cement Mortar	PVC	Polyvinyl Chloride
cm	Centimetre	PF	Power Factor
cmm	Cubic Metre per Minute	PCC	Plain Cement Concrete
CR	Coarsed Rubble	PG	Parallel Groove
CTD	Cold Twisted Deformed	POL	Petrol, Oil, Lubricant
m^3	Cubic Metre	m	Running Metre
dia	Diametre	RS	Rolled Steel
D/S	Downstream	RCC	Reinforced Cement Concrete
DRR/PRR	Diesel/Power Road Roller	mm^2	Square Millimetre
Doz	Dozen	cm^2	Square Centimetre
FA	Fine Aggregate	SM	Sheet Metal
GI	Galvanized Iron	m^2	Square Metre
HG	High Grade	SWG	Standard Wire Gauge
HP	Horse Power	SW	Stone Ware
HPMV	High Pressure Mercury Vapour	t	Tonne
JW	Jungle Wood	TW	Teak Wood
Km	Kilometre	U/S	Upstream
kg	Kilogram	UCR	Uncoarsed Rubble

STATEMENT OF RATES OF MATERIALS FOR 2023-24
FOR KPCL ORGANIZATION SPECIFIC ITEMS SR

Sl No.	Material	Unit	Rate in ₹
	A. BUILDING MATERIALS		
1	Chopped straw	m^3	346.00
2	Cow dung	m^3	416.00
3	Concrete cavity blocks(Hollow)		
	a) 400 x 100 x200 mm	Each	34.00
	b) 400 x 150 x 200 mm	Each	54.00
	c) 400 x 200 x 200 mm	Each	54.00
4	a) Fly ash bricks (Solid)		
	400 x 200 x 150 mm	Each	7.00
	b) Fly ash bricks (Solid)		
	400 x200 x 200 mm	Each	7.00
5	Guard stone(Granite or other stone) (700 x 200x 200mm)	Each	74.00
6	Gun powder	kg	93.00
7	Jaggery	kg	80.00
8	a) Laterite stone 380x 230 x150 mm	100	2839.00
	b)Laterite stone 450 x 230x 150 mm	100	341. 00
9	Lime: For whitewashing	kg	7.00
10	Pestle and Mortar 450 mm size	Each	2795.00
11	Size stone (Header):		
	a) 450 mm long(450x 150x200)	Each	29.00
	b) 600 mm long(600x150x200)	Each	30.00
	B.HARDWARE		
12	AC Cowl cap:		
	a) 100 mm dia	Each	107.00
	b) 150 mm dia.	Each	176.00
13	AC Pipe 3m long:		
	a) 100 mm dia	Each	168.00
	b) 150 mm dia.	Each	362.00
14	AC Plain sheet 6mm thick	m^2	307.00
15	Al drop 300mm long (iron oxidised)		
	a) 10 mm dia rod	Each	116.00
	b) 12mm dia rod	Each	169.00

Sl No.	Material	Unit	Rate in ₹
16	Aluminium sections for Doors/Windows etc.,		
	(excluding anodising cost)	kg	241.00
17	PVC Beading	kg	102.00
18	Bitumen washers	doz	12.00
19	Butt hinges(iron oxidised):		
	a) 50mm	doz	58.00
	b) 75mm	doz	68.00
	c) 100mm	doz	132.00
	d) 150mm	doz	280.00
20	Corborandum stone	Each	120.00
21	Casing pipe, 80 mm dia: M.S. 'A' Class.	m	544.00
22	Chain with staple	Each	34.00
23	a) Chicken mesh 20 gauge 20 mm openings	m^2	59.00
	b) Coir bundle	kg	149.00
24	a) Cup washers	doz	16.00
	b) Door stoppers	Each	50.00
25	Expanded metal 14 gauge x 20 mm	m^2	404.00
26	Floor spring	Each	2500.00
27	GI bolts and nutsfor roofing 300 mm long	kg	54.00
28	Glass - Clear glass 5.5mm thick	m^2	702.00
29	Hold fast 40x 5 x400mm	Each	60.00
30	Hooks and eyes (iron oxidised)		
	a) 100mm long	doz	135.00
	b) 150mm long	doz	152.00
	c) 200 mm long	doz	237.00
31	Handles (iron oxidised)		
	a) 150 mm long	doz	1106.00
	b) Handles (aluminium)		
	i)100mm long	doz	216.00
	ii)150 mm long	doz	347.00
32	J' bolts with nut 150 mm	Each	20.00
33	Joint filler board 18mm thick	m^2	515.00
34	Jute	kg	90.00
35	L' hook with nut 150mm	Each	25.00
36	a) Latches (iron oxidised) 300mm	Each	97.00
	b)Latches(aluminium)	Each	80.00

Sl No.	Material	Unit	Rate in ₹
37	Manila rope	kg	242.00
38	MS Washers	kg	70.00
39	**Pipe**		
	a)GI		
	i) 15mm dia B class	m	104.00
	ii) 20 mm dia B class	m	130.00
	iii) 25 mm dia B class	m	187.00
	iv) 50 mm dia B class	m	305.00
	b) PVC pipe to withstand 2.5 kg/sqcm (ISI mark)		
	i) 15 mm dia	m	14.00
	ii) 20 mm dia	m	18.00
	iii) 32 mm dia	m	33.00
	iv) 40 mm dia	m	12.00
40	a) Rubber bush for doorstoppers 20 mm	doz	28.00
	b) -do-25mm	doz	56.00
	c) -do- 50 mm	doz	99.00
41	Screws		
	a) 25mm	doz	16.00
	b)40mm	doz	54.00
	c) 50 mm	doz	29.00
42	Solvent cement	kg	336.00
43	Tower bolts(iron oxidised)		
	a)75 mm long and 8mm dia	doz	190.00
	b) 100 mm long and 10 mm dia	doz	279.00
	c) 150 mm long and 16 mm dia	doz	418.00
	d) 200 mm long and 16 mm dia	doz	555.00
44	Weldmesh:-		
	a)10 gauge:25mmx75mm	m^2	301.00
	b)16 gauge:75mmx75mm	m^2	249.00
45	Wire nails of all size	kg	70.00
46	Wire mesh- 24 gauge, 6mm square openings	m^2	231.00
	C.PAINTS (ISI mark)		
47	a) Anti- corrosive black paint		
	i) General purpose	ltr	224.00
	ii) Bituminous black	ltr	235.00
	b) Aluminium paint(general purpose)	ltr	221.00

Sl No.	Material	Unit	Rate in ₹
48	Coal tar epoxy paints	ltr	30.00
49	Distemper:		
	a) Oil bound	kg	103.00
	b) water bound	kg	82.00
50	Epoxy varnish(touchwood or equivalent)	ltr	383.00
51	French polish	ltr	288.00
52	Glue	kg	75.00
53	Red oxide primer	ltr	216.00
54	Synthetic enamel paint - II quality	ltr	319.00
55	Water proof cement paint	kg	38.00
56	Yellow ochre	kg	240.00
	D.TILES		
57	Ceramic tiles (ISI mark or as approved)		
	a) 200x100mm	m^2	390.00
	b) 200x200mm	m^2	639.00
	c) 300x300mm	m^2	666.00
58	Cuddapah tiles 280x280mm(black)		
	a) unpolished	100	3814.00
	b) polished	100	4425.00
59	Yerguntla slabs unpolished		
	a) 25mm thick	m^2	213.00
	b)40 mm thick	m^2	366.00
	E.WOOD		
60	Bamboos 4m long:		
	a) 50 to 75 mm dia	m	50.00
	b) 76 to 100 mm dia	m	61.00
61	Flush door shutters:		
	a) BST: (Both sides teak finished)		
	i) 25mm	m^2	2605.00
	ii) 30mm	m^2	2664.00
	b) commercial		
	i) 25mm	m^2	937.00
	ii) 30mm	m^2	1008.00

Sl No.	Material	Unit	Rate in ₹
	c) OST(one side teak finished)		
	i)25mm	m^2	2523.00
	ii)30mm	m^2	2582.00
62	Hard board 45mmx45mm size	m^2	143.00
63	JW Bullies;		
	a) upto 6m length, 100 to 150 mm dia	m	138.00
	b) upto 4m length , 100 to 150 mm dia	m	152.00
	c) upto 4m length, 75 to 100 mm dia	m	126.00
64	Plywood 12mm thick(ordinary)	m^2	572.00
	Plywood 15 mm thick(ordinary)	m^2	657.00
	Plywood 12mm thick (moisture resistant)	m^2	1000.00
	Plywood 15mm thick(moisture resistant)	m^2	1257.00
65	Wood cut size		
	a) Battens 25x 50mm:		
	i) Honne wood	m	104.00
	ii) Jungle wood	m	42.00
	iii) Matti wood	m	72.00
	iv) Teak wood	m	157.00
	b) Planks :		
	i) Matti wood	m^3	59480.00
	c) Scantlings:		
	i) Matti wood	m^3	59480.00
	F. Other materials		
66	AC corrugated sheet, 6mm thick	m^2	1093.00
67	Ammonium nitrate		
	a) Crystal	kg	36.00
	b) Prilled	kg	42.00
68	Fuse coil (blue sump)	7.32m	196.00
69	Explosives		
	a) 25mm dia(kelvix-100 or equivalent)	kg	124.00
	b) 83mm dia(kelvix-90 or equivalent)	kg	70.00

Notes:-

1. All the notes mentioned in the Common Schedule of Rates (Vol. 1) are applicable to KPCL also.

STATEMENT OF USAGE CHARGES OF MACHINERY AND EQUIPMENT FOR KPCL ORGANIZATION SPECIFIC ITEMS SR

Sl. No	Plant & Machinery Description	Usage Charges in ₹./Hr	DPOL & Energy in ₹./Hr	Operating Crew in ₹./Hr	Total in ₹./Hr
	MACHINERY & EQUIPMENT: Category-1				
1	Core drilling machine (Gallery)	193.00	363.00	375.00	931.00
2	Cranes				
	a) Crane 10 tonne(50 hp)	538.00	908.00	317.00	1763.00
	b) Crane 14 tonne(110 hp)	1028.00	1997.00	304.00	3329.00
	c) Crane 40 tonne(165 hp)	4276.00	2995.00	304.00	7575.00
3	Dozers – a)Angle dozer 180 FHP	1878.00	2832.00	317.00	5027.00
	b) Straight tilt dozer 320FHP	4437.00	5808.00	317.00	10562.00
4	Dumpers				
	a) Dumper 8 t capacity	404.00	748.00	304.00	1456.00
	Tyres 6 Nos.	94.00	0.00	0.00	94.00
	Total	**498.00**	**748.00**	**304.00**	**1550.00**
	b) Dumper 20 t capacity	1189.00	871.00	304.00	2364.00
	Tyres 6 Nos.	125.00	0.00	0.00	125.00
	Total	**1314.00**	**871.00**	**304.00**	**2489.00**
	c) Dumper 30 t capacity	2382.00	1198.00	304.00	3884.00
	Tyres 6 Nos	187.00	0.00	0.00	187.00
	Total	**2569.00**	**1198.00**	**304.00**	**4071.00**
5	Granby car	29.00	0.00	0.00	29.00
6	Hauler tractor with trailer	102.00	871.00	304.00	1277.00
7	Loaders:				
	a) Loader 0.85 cum (110 hp)	970.00	1328.00	317.00	2615.00
	b) Loader 1.50 cum (150 hp)	1276.00	1671.00	304.00	3251.00
	c) Loader 3 m3 (350 hp)	1575.00	2084.00	228.00	3887.00
8	Wheel loader 2 cum(108 hp)	994.00	1516.00	254.00	2764.00
9	Locos:				
	a) Loco diesel 45 HP	234.00	632.00	238.00	1104.00
	b) Loco diesel 220 HP	1599.00	3088.00	238.00	4925.00
10	Sheep foot roller without hauler	167.00	0.00	0.00	167.00
11	Tractor 20 tonne	396.00	1650.00	304.00	2350.00
12	Vibratory Roller 10t-Smooth drum	994.00	1899.00	288.00	3181.00
13	Welding set -Portable diesel	257.00	495.00	0.00	752.00

Sl. No	Plant & Machinery Description	Usage Charges in ₹./Hr	DPOL & Energy in ₹./Hr	Operating Crew in ₹./Hr	Total in ₹./Hr
14	Winch				
	a) 125 HP (Elecl.)	313.00	1070.00	228.00	1611.00
	b) 150 HP (Elecl.)	382.00	1284.00	228.00	1894.00
15	Drum mix plant	380.00	330.00	228.00	938.00
	MACHINERY & EQUIPMENT: Category-2				
16	Air Compressors:				
	a) Air Compressor 11 cmm (Diesel)	224.00	2662.00	304.00	3190.00
	b) Air Compressor 17 cmm (Diesel)	379.00	3993.00	304.00	4676.00
17	Asphalting Equipments:				
	a) Asphalt mixer 5HP -Diesel	38.00	121.00	161.00	320.00
	b) Asphalt mixer -Hand operated	11.00	0.00	0.00	11.00
18	Cherry picker	7.00	14.00	156.00	177.00
19	Winches: a) Crab winch-10t Hand operated	15.00	0.00	0.00	15.00
	b) Crab winch-5t Hand operated	11.00	0.00	0.00	11.00
20	Dewatering Pumps (Diesel):				
	a) Dewatering Pump (Diesel 15 hp)	42.00	363.00	155.00	560.00
	b) Dewatering Pump (Diesel 25 hp)	60.00	605.00	155.00	820.00
	c) Dewatering Pump (Diesel 30 hp)	68.00	726.00	155.00	949.00
	d) Dewatering Pump (Diesel 40 hp)	76.00	968.00	155.00	1199.00
21	Dewatering Pumps (Electric):				
	a) Dewatering Pump (Elecl 15 hp)	9.00	128.00	155.00	292.00
	b) Dewatering Pump (Elecl 25 hp)	16.00	214.00	155.00	385.00
	c) Dewatering Pump (Elecl 30 hp)	18.00	257.00	155.00	430.00
	d) Dewatering Pump (Elecl 40 hp)	20.00	343.00	155.00	518.00
22	Explosive Van	178.00	330.00	304.00	812.00
23	Floor Polishing Machine				
24	Grouting Equipment (Ele 5 hp)	31.00	43.00	193.00	267.00
25	Grouting Equipment (Pneumatic)	31.00	3.00	193.00	227.00
26	Crushers:				
	a) Jaw crusher 400x225 mm	78.00	171.00	141.00	390.00
	b) Jaw crusher 500x300 mm	155.00	257.00	141.00	553.00
27	Pneumatic tamper(without air)	9.00	15.00	0.00	24.00
28	Pusher leg (excluding air charges)	6.00	0.00	0.00	6.00
29	Concrete Needle Vibrator:				

Sl. No	Plant & Machinery Description	Usage Charges in ₹./Hr	DPOL & Energy in ₹./Hr	Operating Crew in ₹./Hr	Total in ₹./Hr
	a) 25 mm Needle 1.9 hp Petrol	8.00	53.00	112.00	173.00
	b) 40 mm Needle 2 hp Diesel	9.00	48.00	112.00	169.00
30	Reciprocating pump -10 hp(Diesel)	17.00	242.00	155.00	414.00
31	Shutter vibrator	8.00	26.00	112.00	146.00
32	Sludge pump 10 hp	14.00	121.00	155.00	290.00
33	Sludge pump 15 hp	16.00	182.00	155.00	353.00
34	Tipper 6 cum	144.00	472.00	304.00	920.00
	Tyres 6 Nos.	94.00	0.00	0.00	94.00
	Total	**238.00**	**472.00**	**304.00**	**1014.00**
35	Truck 7.5 tonne	202.00	363.00	304.00	869.00
	Tyres 6 Nos.	94.00	0.00	0.00	94.00
	Total	**296.00**	**363.00**	**304.00**	**963.00**
36	Truck 18 tonne	296.00	799.00	304.00	1399.00
	Tyres 6 Nos.	114.00	0.00	0.00	114.00
	Total	**410.00**	**799.00**	**304.00**	**1513.00**
37	Ventilation Fan 40 HP	14.00	343.00	39.00	396.00
	MACHINERY & EQUIPMENT: Category-3				
38	Ambulance van	294	275	193	762
39	Distribution Transformer 500KVA	₹5029 per month			
40	Jeep	₹19 per Km			
41	Omni Bus (52 Seater)	480	550	305	1335
42	Portable Magazine B type	₹853 per month			
43	Portable Magazine S type	₹468 per month			
	MACHINERY & EQUIPMENT: Category-4 T & P Materials (Excluding crew, fuel and consumable charges)				
44	Angle grinder 175 mm with sander - disc pads etc.,	₹ 94 per day			
45	Chain pulley blocks				
	a) Chain pulley block 3t cap-5m lift	₹ 126 per day			
	b) Chain pulley block 5t cap-10 m lift	₹ 185per day			
46	Dumpy level with accessories	₹ 69 per day			
47	Flexible shaft with grinder (wolf FF 2 or similar)	₹ 138 per day			

48	Grinding machine	
	a) 100 mm dia	₹ 63 per day
	b) 150 mm dia	₹ 94 per day
49	Hand pump with accessories	₹ 63 per day
50	Jacks	
	a) 10 t capacity screw type	₹ 58 per day
	b) 10 t capacity hydraulic type	₹ 56 per day
	c) 15 t capacity track type	₹ 63 per day
	d) 20 t capacity hydraulic type	₹ 94 per day
	e) 100 t capacity hydraulic type	₹ 187 per day
51	Portable air blower with accessories.	₹ 31 per day
52	Portable arc welding transformer	₹ 51 per day
53	Portable drilling machine.	
	a) Upto 25 mm dia with stand	₹ 94 per day
	b) Upto 13 mm dia	₹ 63 per day
	c) Upto 6 mm dia	₹ 48 per day
54	Tarpaulin	₹ 48 per day
55	Tirfor pulling and lifting device	
	a) 3 t capacity	₹ 28 per day
	b) 5 t capacity	₹ 33 per day
56	Vaccum cleaner	₹ 39 per day
57	Wire rope 10.0 m long	₹ 39 per day
58	Wooden sleeper upto 1.8 m length	₹ 28 per day

Notes:

1. Recovery of hire charges shall be for a minimum of 1 hour in a day for short term hiring in respect of machinery and equipment under category-1.

2. Recovery of hire charges in respect of machinery and equipment under category-2 shall be for a minimum period of 5 hours in a day for short term hiring and a minimum period of 2 hours in a day for casual hiring for petty works.

3. In case, they are used for more than minimum stipulated hours in a day, recovery of hire charges shall be on hourly basis for the total number of hours used. Any fraction of an hour shall be rounded off to the next full hour.

Chapter - 1

DAM AND ALLIED WORKS

NOTES ON KPCL SCHEDULE OF RATES FOR DAM AND ALLIED WORKS

1. The basic rates are inclusive of wastage of materials in handling.
2. The quantities of materials required for various items shall be as per Statement-A.
3. The rate for concrete items includes providing cement mortar layer before laying concrete for next layer/lift. The proportion of mortar shall be as that of mortar portion in concrete.
4. The cost towards construction of coffer dams and dewatering are not included in the basic rates.

DAM AND ALLIED WORKS
STATEMENT - A
REQUIREMENT OF MATERIALS FOR VARIOUS ITEMS OF WORK

Item No.	Description of work in brief	Unit	Cement Kg.	Fine Aggregates m^3	Coarse Aggregates m^3	Stone/ rubble rockfill/ plum m^3	Earth / Soil m^3
10 (a)	CC M-10 (80 mm & down) at 28 days	m^3	217	0.363	1.082		
b)	CC M-10 (40 mm & down) at 28 days	m^3	237	0.415	0.961		
11 (a)	CC M-15 (150 mm & down) at 90 days	m^3	192	0.253	1.261		
b)	CC M-15 (80 mm & down) at 28 days	m^3	172	0.259	1.29		
c)	CC M-15 (80 mm & down) at 28 days	m^3	242	0.361	1.074		
d)	CC M-15 (80 mm & down) at 90 days	m^3	227	0.353	1.051		
e)	CC M-15 (80 mm & down) at 365 days	m^3	202	0.364	1.083		
f)	CC M-15 (40 mm & down) at 28 days	m^3	273	0.407	0.944		
g)	CC M-15 (20 mm & down) at 28 days	m^3	308	0.442	0.788		
12 (a)	CC M-15 (40 mm & down) at 28 days with 20% to 25% plums	m^3	211	0.316	0.732	0.380	
b)	CC M-15 (40 mm & down) at 90 days with 20% to 25% plums	m^3	192	0.325	0.754	0.380	
13 (a)	CC M-20 (150 mm & down) at 90 days	m^3	217	0.249	1.242		
b)	CC M-20 (150 mm & down) at 365 days	m^3	197	0.255	1.269		
c)	CC M-20 (80 mm & down) at 28 days	m^3	273	0.354	1.054		
d)	CC M-20 (80 mm & down) at 90 days	m^3	247	0.350	1.043		
e)	CC M-20 (80 mm & down) at 365 days	m^3	222	0.360	1.072		
f)	CC M-20 (40 mm & down) at 28 days	m^3	323	0.39	0.906		
g)	CC M-20 (20 mm & down) at 28 days	m^3	364	0.424	0.758		
14 (a)	CC M-20 (40 mm & down) at 28 days with 20% - 25 % plums	m^3	250	0.302	0.703	0.380	
b)	CC M-20 (40 mm & down) at 90 days with 20% - 25 % plums	m^3	235	0.310	0.720	0.380	
15 (a)	CC M-25 (40 mm & down) at 28 days	m^3	384	0.381	0.883		
b)	CC M-25 (20 mm & down) at 28 days	m^3	414	0.392	0.775		
c)	CC M-25 (20 mm & down) at 28 days	m^3	434	0.410	0.732		

Item No.	Description of work in brief	Unit	Cement Kg.	Fine Aggregates m^3	Coarse Aggregates m^3	Stone/ rubble rockfill/ plum m^3	Earth / Soil m^3
16 (a)	RCC solid parapet	m	106	0.100	0.179		
b)	RCC omamental parapet	m	97	0.091	0.163		
c)	RCC omamental parapet with coping slab	m	77	0.073	0.130		
17	Porous concrete blocks	m	64		0.234		
18 (a)	UCR masonry in CM 1:6 proportion by weight	m^3	116	0.430		0.969	
b)	UCR masonry in CM 1:5 proportion by weight	m^3	134	0.415		0.969	
c)	UCR masonry in CM 1:4 proportion by weight	m^3	162	0.400		0.969	
d)	UCR masonry in CM 1:3 proportion by weight	m^3	192	0.408		1.01	
e)	UCR masonry for hearting in CM having cube compressive strength of 50 Kg/cm^2 at 28 days	m^3	126	0.421		0.969	
f)	UCR masonry for hearting in CM having cube compressive strength of 75 Kg/cm^2 at 28 days	m^3	157	0.400		0.969	
g)	UCR masonry for hearting in CM having cube compressive strength of 100 Kg/cm^2 at 28 days	m^3	182	0.385		0.969	
h)	UCR masonry for hearting in CM having cube compressive strength of 150 Kg/cm^2 at 28days	m^3	207	0.371		0.969	
19	Pointing to masonry						
a)	In CM 1:3 proporation	m^2	6.70	0.013			
b)	In CM 1:4 proporation	m^2	5.40	0.013			
20	Guniting work						
a)	With CM 1:3 proportion						
	i) 25mm thick	m^2	17.50	0.032			
	ii) 50mm thick	m^2	35.00	0.065			
b)	With CM 1:3.5 proportion						
	i) 25mm thick	m^2	15.00	0.032			
	ii) 50mm thick	m^2	30.00	0.065			

Item No.	Description of work in brief	Unit	Cement Kg.	Fine Aggregates m^3	Coarse Aggregates m^3	Stone/ rubble rockfill/ plum m^3	Earth / Soil m^3
22	Rough stone revetment 45 cm thick over filter backing with 25% of stone projected	m^2		0.165	0.315	0.530	
23	Rough stone revetment 45 cm thick over filter backing	m^3		0.165	0.315	0.352	
24,25 & 26	Rock fill embankment	m^3				1.250	
27	Open paved catch drain	m	20.80	0.041		1.104	
28 & 29	Back filling with soil	m^3					1.25
30	Weep Holes	m	3.20	0.0009	0.008		
31	Cross drain in pitching in CM 1:4	m	7.50	0.025			
32	Open jointed pipe across berms	m			0.111		
Note	The quantities of materials are inclusive of wastages as indicated below						
	Cement	1%					
	Fine aggregate	3%					
	Coarse aggregate / clips	3%					
	Face stones /headers	3%					
	Rubble	2%					

Sl. No.	Specification	Unit	Rate ₹
	DAM AND ALLIED WORKS		
1	Excavation for seating the dam, tail channel, spillway, intake structure and appurtenant works including placing neatly or disposing off the excavated stuff as directed etc., complete with all leads and lifts. (For Dam and Allied works)		
a	In all kinds of soil including boulders upto 0.15m^3 in volume	m^3	**111.00**
b	In soft rock without blasting	m^3	**176.00**
c	In soft rock requiring blasting including boulder exceeding 0.15 m^3 & upto 1m^3 in volume.	m^3	**272.00**
d	In hard rock by blasting including boulder exceeding 1m^3 in volume	m^3	**641.00**
	Note: If stacking of excavated rubble is required, add Rs. 15/m^3.		
e	Additional lead charges for transportation for every additional 1km beyond initial lead of 1 km, upto 5 km including unloading and stacking or disposing off the same as directed etc., complete for insitu quantity. (For Dam and Allied works)		
	i) For soil and soft rock	m^3	**15.00**
	ii) For hard rock	m^3	**21.00**
2	Earthwork excavation for trial pits/ borrow pits/ dog bailing to the required section including disposing off the excavated material etc., complete with all leads and lifts. (For Dam and Allied works)		
a	In soil and soft murum	m^3	**428.00**
b	In hard murum and soft laterite	m^3	**570.00**
c	In soft rock and hard laterite with or without blasting	m^3	**861.00**
3	Drilling 40 mm to 50 mm diameter holes (non coring) by rotary method in rock, masonry or concrete including cost of all materials, machinery, labour, water charges including cement grouting and redrilling in case of collapse of sides etc., complete with all leads and lifts. (excluding cost of cement). (For Dam and Allied works)		
a	Depth upto 15m from the surface	m	**7155.00**
b	Depth from 15m upto 30m from the surface	m	**7870.00**
c	Depth from 30m upto 60m from the surface	m	**8660.00**
d	Depth from 60m upto 90m from the surface	m	**9525.00**
e	Depth from 90m upto 120m from the surface	m	**10475.00**
f	Depth from 120m upto 150m from the surface	m	**11525.00**

Sl. No.	Specification	Unit	Rate ₹
4	Drilling 75 mm to 80 mm diameter holes (non coring) by rotary method in rock, masonry or concrete including cost of all materials, machinery, labour, water charges including cement grouting and redrilling in case of collapse of sides etc., complete with all leads and lifts. (excluding cost of cement). (For Dam and Allied works)		
a	Depth upto 15m from the surface	m	**7310.00**
b	Depth from 15m upto 30m from the surface	m	**8040.00**
c	Depth from 30m upto 60m from the surface	m	**8845.00**
d	Depth from 60m upto 90m from the surface	m	**9730.00**
e	Depth from 90m upto 120m from the surface	m	**10705.00**
f	Depth from 120m upto 150m from the surface	m	**11175.00**
5	Conducting water loss test in over burden by gravity head method in stages of 3m progressively during course of drilling including saturation for not less than 24 hrs and cost of all materials, machinery, labour, water charges etc., complete with all leads and lifts. (For Dam and Allied works)	Each test	**1025.00**
	Note: Add Rs. 18.60 extra for every subsequent stage of 3m or part there of.		
6	Conducting water loss in hard strata using necessary packers in stages of upto 8 m at three desired pressure ranges including saturation for not less than 24hrs and cost of all materials,machinery, labour, water charges etc., complete with all leads and lifts. (For Dam and Allied works)	Each test	**3690.00**
	Note: Add Rs. 67.10 extra for every subsequent stage of 8m or part there of.		
7	Drilling 30 mm to 35 mm diameter holes by jack hammer in rock, masonry or concrete including cost of all materials, machinery, labour etc.,complete. (For Dam and Allied works)		
a	Vertical or inclined upto 10^0 to vertical	m	**292.00**
b	Inclined 10^0 to 45^0 to vertical	m	**310.00**
c	Inclined 45^0 to 90^0 to vertical	m	**322.00**
8	Drilling 75 mm to 80 mm diameter drainage holes by percussion drilling in rock/masonry/concrete including cost of all materials, machinery,labour etc., complete with all leads and lifts. (For Dam and Allied works)		
a	In open area	m	**1760.00**
b	In drainage gallery	m	**2490.00**
9	Providing and fixing perforated 50 mm dia. GI pipes 'A' class in drilled holes for drainage including cost of all materials, machinery, labour, making perforations, providing flap valve and jointing etc.,complete with all leads and lifts. (For Dam and Allied works)	m	**543.00**

Sl. No.	Specification	Unit	Rate ₹
10	Providing and laying insitu vibrated cement concrete M-10 using approved, clean, hard graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using 80mm and down coarse aggregates and 28 days cube compressive strength, Cement content=251 kg/m^3.		
	i) Levelling course, foundation filling, back filling and similar works.	m^3	**5094.00**
	ii) Gravity type retaining wall and similar works	m^3	**5899.00**
b	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=235 kg/m^3.		
	i) Levelling course, foundation filling, back filling and similar works.	m^3	**5215.00**
	ii) Gravity type retaining wall and similar works	m^3	**6020.00**
11	Providing and laying insitu vibrated cement concrete M-15 using approved, clean, hard graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using 150 mm and down coarse aggregates and 90 days cube compressive strength, Cement content=190 kg/m^3.		
	i) Mass concrete in dam and similar works.	m^3	**4798.00**
b	Using 150 mm and down coarse aggregates and 365 days cube compressive strength, Cement content=170 kg/m^3.		
	i) Mass concrete in dam and similar works.	m^3	**4707.00**
c	Using 80mm and down coarse aggregates and 28 days cube compressive strength, Cement content=240 kg/m^3.		
	i) Levelling course, foundation filling, backfilling and similar works	m^3	**5257.00**
	ii) Gravity type retaining walls, by-pass weirs and similar works.	m^3	**6123.00**
d	Using 80mm and down coarse aggregates and 90 days cube compressive strength, Cement content=225 kg/m^3.		
	i) Levelling course, foundation filling, backfilling, Mass concrete in dam and similar works	m^3	**5100.00**
	ii) Gravity type retaining walls, by-pass weirs and similar works.	m^3	**5965.00**
e	Using 80mm and down coarse aggregates and 365 days cube compressive strength, Cement content=200 kg/m^3.		

Sl. No.	Specification	Unit	Rate ₹
	i) Mass concrete in dam and similar works	m^3	**4985.00**
f	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=270 kg/m^3.		
	i) Levelling course, foundation filling, backfilling and similar works.	m^3	**5433.00**
	ii) Gravity type retaining walls, by-pass weirs, Cantilever/counterfort retaining walls, skin walls and similar works.	m^3	**6398.00**
	iii) Bed and side lining of channels.	m^3	**6358.00**
g	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=305 kg/m^3.		
	i) Bed and side lining of channels.	m^3	**6570.00**
12	Providing and laying insitu vibrated plum concrete M-15 using approved, clean, hard graded aggregates and plums including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling,sinking plums, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using 40mm and down coarse aggregates with 20 to 25% plums of size 150mm to 250 mm and 28 days cube compressive strength, Cement content=209 kg/m^3.	m^3	**4731.00**
b	Using 40mm and down coarse aggregates with 20 to 25% plums of size 150mm to 250 mm and 90 days cube compressive strength, Cement content=190 kg/m^3.	m^3	**4646.00**
13	Providing and laying insitu vibrated cement concrete M-20 using approved, clean, hard graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using 150mm and down coarse aggregates and 90 days cube compressive strength, Cement content=215 kg/m^3.		
	i) Mass concrete in dam and similar works.	m^3	**4973.00**
b	Using 150mm and down coarse aggregates and 365 days cube compressive strength, Cement content=195 kg/m^3.		
	i) Mass concrete in dam and similar works.	m^3	**4876.00**
c	Using 80mm and down coarse aggregates and 28 days cube compressive strength, Cement content=270 kg/m^3.		
	i) Levelling course, foundation filling, backfilling, Mass concrete in dam and similar works	m^3	**5433.00**
	ii) Gravity type retaining walls, by-pass weirs and similar works.	m^3	**6304.00**

Sl. No.	Specification	Unit	Rate ₹
d	Using 80mm and down coarse aggregates and 90 days cube compressive strength , Cement content=245 kg/m^3.		
	i) Levelling course, foundation filling, backfilling, Mass concrete in dam and similar works	m^3	**5227.00**
	ii) Gravity type retaining walls, by-pass weirs and similar works.	m^3	**6093.00**
e	Using 80mm and down coarse aggregates and 365 days cube compressive strength, Cement content=200 kg/m^3.		
	i) Mass concrete in dam and similar works	m^3	**5106.00**
f	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=320 kg/m^3.		
	i) Levelling course, foundation filling, backfilling and similar works	m^3	**5705.00**
	ii) Gravity type retaining walls, by-pass weirs, Cantilever/counterfort retaining walls, skin walls and similar works. and similar works.	m^3	**6576.00**
	iii) Drainage gallery, sluice, adit,intake structure, piers, hoist chambers, lift shaft, Trash rack structure and similar works.	m^3	**5820.00**
	iv) Bed and side lining of channels.	m^3	**6643.00**
	v)Concreting around Penstocks, Anchor Blocks and similar works.	m^3	**5705.00**
g	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=360 kg/m^3.		
	i) Trash rack structure and similar works	m^3	**6074.00**
	ii) Concreting for block outs	m^3	**6897.00**
14	Providing and laying insitu vibrated plum concrete M-20 using approved, clean, hard graded aggregates and plums including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling,sinking plums, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using 40mm and down coarse aggregates with 20 to 25% plums of size 150mm to 250 mm and 28 days cube compressive strength, Cement content=248 kg/m^3.	m^3	**4943.00**
b	Using 40 mm and down coarse aggregates with 20 to 25% plums of size 150mm to 250 mm and 90 days cube compressive strength, Cement content=235 kg/m^3.	m^3	**4870.00**
15	Providing and laying insitu vibrated cement concrete M-25 using approved, clean, hard graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		

Sl. No.	Specification	Unit	Rate ₹
a	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=380 kg/m^3.		
	i) Levelling course, foundation filling, backfilling, Concreting around penstocks, anchor blocks and similar works.	m^3	**6086.00**
	ii) Gravity type retaining walls, by-pass weirs, Cantilever/counterfort retaining walls, skin walls and similar works.	m^3	**6964.00**
	iii) Drainage gallery, sluice, adit,intake structure, piers, hoist chambers, lift shaft, Energy dissipation structure, spillway downstream facing, Trash rack structure and similar works.	m^3	**6207.00**
	iv) Cut and cover duct and similar works	m^3	**7030.00**
b	Using 20 mm and down coarse aggregates and 28 days cube compressive strength, Cement content=410 kg/m^3.		
	Spillway bridge and similar works.	m^3	**6359.00**
c	Using 20 mm and down coarse aggregates and 28 days cube compressive strength, Cement content=430 kg/m^3.		
	Spillway bridge, Trash rack structure and similar works.	m^3	**6522.00**
16	Providing and laying in-situ vibrated cement concrete M-25 (28 days cube strength) for parapet using 20mm and down approved, clean, hard graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position,levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (Excluding cost of providing and placing reinforcement). (For Dam and Allied works)		
a	RCC solid parapet consisting of 350mm X 200mm size kerb, 350mm X 350mm pillars 1000mm high spaced at 3.5m apart, 125mm thick wall 80mm high with RCC coping slab of 125mm thick. (Quantity of concrete per meter length = 0.2444 m^3).	m	**1797.00**
b	RCC ornamental parapet consisting of 350 mm X 200 mm size kerb, 350 mm X 350 mm pillars 1000 mm high spaced at 3.5 m apart, 200 X150 mm post 800 mm high at 290 mm spacing with RCC coping slab of 125 mm thick. (Quantity of concrete per meter length=0.2222 m^3).	m	**1634.00**
c	RCC ornamental parapet consisting of 350 mm X 200 mm size kerb, 350 mm X 350 mm pillars 1000 mm high spaced at 3.5 m apart, 200 X150 mm post 800 mm high at 290 mm spacing without RCC coping slab of 125 mm thick.(Quantity of concrete per meter length=0.1775 m^3).	m	**1301.00**
17	Providing and fixing porous concrete blocks of size 500X500x400 mm with a central hole of 200 mm diameter for body drain using cement and 20 mm and down approved,clean, hard, graded coarse aggregates in 1:5.5 proportion by weight having 28 days cube compressive strength not less than 75 kg/cm^2 including cost of all materials, machinery, labour, curing etc., complete with all leads and lifts. (For Dam and Allied works)	m	**1955.00**

Sl. No.	Specification	Unit	Rate ₹
18	Providing and constructing UCR stone masonry with approved rubble stones in CM including cost of materials, machinery, labour, ramps, cleaning, packing mortar, wedging stone chips, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	In CM 1:6 proportion by weight.	m^3	**5740.00**
b	In CM 1:5 proportion by weight.	m^3	**5840.00**
c	In CM 1:4 proportion by weight.	m^3	**6005.00**
d	In CM 1:3 proportion by weight.	m^3	**6185.00**
e	In CM of 28 days strength not less than 50kg/cm^2.	m^3	**5795.00**
f	In CM of 28 days strength not less than 75kg/cm^2.	m^3	**5970.00**
g	In CM of 28 days strength not less than 100kg/cm^2.	m^3	**6120.00**
h	In CM of 28 days strength not less than 150kg/cm^2.	m^3	**6265.00**
19a)	Providing pointing to exposed face of masonry 75 mm deep in cement mortar 1:3 proportion by weight in two stages with approved water proof compound at 2% by weight of cement including cost of all materials, machinery, labour, raking and cleaning joints, curing etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**414.00**
b)	Providing pointing to exposed face of masonry 75 mm deep in cement mortar 1:4 proportion by weight in two stages including cost of all materials, machinery, labour, raking and cleaning joints, curing etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**400.00**
20	Providing guniting in cement mortar including cost of all materials machinery, labour, mixing, laying,finishing, curing etc., complete with all leads and lifts. (For Dam and Allied works)		
a	Using cement mortar 1:3 proportion by weight		
	i) 25mm thick	m^2	**764.00**
	ii) 50mm thick in two layers without weld mesh.	m^2	**1,521.00**
	iii) 50mm thick in two layers with16BWG weld mesh of 75X25mm size	m^2	**1,931.00**
b	Using cement mortar 1:3.5 proportion by weight		
	i) 25mm thick.	m^2	**746.00**
	ii) 50mm thick in two layers without weld mesh.	m^2	**1,493.00**
	iii) 50mm thick in two layers with16BWG weld mesh of 75X75mm size.	m^2	**1,838.00**
21	Providing and forming, 12.5 cm square bitumen grooves between water seals or wherever required with 12mm/15mm dia GI pipes in 2 legs with 'U' bend at bottom and collars at joints, filling the groove with bitumen of suitable grade including circulation of steam through pipes at specified intervals etc., complete with all leads and lifts. (For Dam and Allied works)	m	**1305.00**

Sl. No.	Specification	Unit	Rate ₹
22	Providing & constructing 45 cm thick hand packed rough stone revetment including through stones at 2 Nos./sqm with 25% of the same projecting 15 cm from finished surface, over a backing of 45 cm thick graded filter consisting of sand, 10 mm & 40 mm size approved, clean, hard, graded, aggregates laid in layers of 15 cm thick each, including cost of all materials, machinery labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**1870.00**
23	Providing & constructing 45 cm thick hand packed rough stone rip rap over a backing of 45 cm thick graded filter consisting of sand, 20 mm & 40 mm size approved, clean, hard, graded, aggregates laid in layers of 15 cm thick each, including cost of all materials, machinery, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**1665.00**
24	Providing and constructing rockfill embankment with graded rubble of 600 mm and down size from approved quarry including spreading and compacting by vibratory rollers in layers not exceeding 800 mm and finishing the sides to the required slopes including cost of all materials, machinery, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^3	**580.00**
25	Providing and constructing rockfill embankment with graded rubble of 400 mm and down size from approved quarry including spreading and compacting by vibratory rollers in layers not exceeding 600 mm and finishing the sides to the required slopes including cost of all materials, machinery, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^3	**661.00**
26	Providing and constructing rockfill embankment using 300mm down graded stones and quarry spalls from approved source including cost of all materials, machinery, labour, spreading stones and spalls in layers, hand packing, wedging, finishing the surface to required slopes as per approved drawings and all other ancillary operations complete. (For Dam and Allied works)	m^3	**553.00**
27	Providing and constructing open paved catch drain with bottom width of 1.0m and to a height of 1.0m from invert with side slope of 1 V : 1.5 H along down stream of dam, abutting rock toe using 30 cm thick packed rough stones including packing and wedging with stone chips and pointing invert and side slopes (no pointing on rock toe side) in cement mortar 1:3 proportion by weight to a depth of 75mm in two stages including cost of all materials, labour, machinery etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**852.00**
28	Back filling the excavated trench on the D/S of dam in layers using available free draining material, including cost of all materials, machinery, labour, tamping etc., complete with all leads and lifts. (For Dam and Allied works)	m^3	**467.00**

Sl. No.	Specification	Unit	Rate ₹
29	Back filling the excavated trench on the U/S of dam with soil from approved borrow areas including cost of all materials, machinery, labour, all operations such as excavation, sorting, spreading, watering and compaction in layers of 10 to 15 cm by pneumatic rammers etc., complete with all leads and lifts. (For Dam and Allied works)	m^3	**459.00**
30	Providing and laying hume pipe for weep holes including providing 20x20x20cm size porous concrete block using 20mm down size aggregates, covered alround by 10cm thick sand at the junction of pipe and back fill etc., complete with all leads and lifts. (For Dam and Allied works)		
a	100mm diameter pipe	m	**375.00**
b	150mm diameter pipe	m	**575.00**
31	Forming 25cmX25cm(average) depth drain in pitching and plastering bed and sides with 20mm thick C.M 1:4 proportion including cost of all materials, labour, finishing to the required slope etc., complete with all leads and lifts. (For Dam and Allied works)	m	**495.00**
32	Providing and laying 15 cm diameter open jointed hume pipe across berms encased in 50 cmX 25 cm size 20 mm down filter drain including cost of all materials, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m	**817.00**
33	Cleaning upstream and downstream face of the dam including removing grass/bush growth, nest, set mortar lumps by brushing, disposing off waste materials etc including cost of all materials, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^2	**23.00**
34	Collecting, conveying including cutting to the required size wooden logs, bamboos, bushes, and other floating materials from the U/S side of the reservoir area and conveying the same by boat or other means to the banks and neatly stacking the same including the hire charges of boat, labour etc., complete with all leads and lifts. (For Dam and Allied works)	m^3	**900.00**
35a)	Reaming/re-drilling of 200 mm dia hole in open area from dam top in downward direction including cost of materials, machinery, labours, water charges etc., (For Dam and Allied works)	m	**3625.00**
b)	Reaming/re-drilling of 200 mm dia hole in gallery in upward direction including cost of materials, machinery, labours, water charges etc., (For Dam and Allied works)	m	**4800.00**
c)	Reaming/re-drilling of NX size hole in gallery foundation drain in downward direction including cost of materials, machinery, labours, water charges etc., (For Dam and Allied works)	m	**2760.00**

Chapter - 2

POWER HOUSE AND ALLIED WORKS

NOTES ON KPCL SCHEDULE OF RATES FOR POWER HOUSE AND ALLIED WORKS.

1. For open excavation items the rates as provided in Common SR Vol. 1 shall be adopted.
2. For underground excavation (tunneling method) items, the rates as provided under 'Tunnels and Allied works" Common SR Vol. 4 Part 1 Schedule of rates shall be adopted.
3. For excavation by smooth blasting one metre width of excavation adjacent to final excavation line shall be considered for working out the quantity of excavation in rock by smooth blasting.
4. For UCR masonry, guniting, grouting, anchor rods, PVC water stops and plum concrete items, the rates as provided under "Dam and Allied works" of Common SR Vol. 4 shall be adopted.
5. For brick/stone masonry pointing, plastering, painting, flooring, doors and windows the rates as provided under 'Building and allied works" (refer Common SR Vol. 2 for buildings) shall be adopted with 7% increase.
6. For underground power house works the basic rates as provided in Common Schedule of Rates shall be increased by 10%.
7. Cost towards construction of coffer dams and dewatering are not included in the basic rates.
8. The basic rates for the items include wastage of material in handling.
9. The basic rates for concrete items are inclusive of standard finish required for concrete. Wherever regular plastering is required to the concrete surface separate provision shall be made towards the same.
10. The rates for concrete items include providing cement mortar layer before laying concrete for next layer/lift. The proportion of mortar shall be same as that of mortar portion in concrete.
11. For concrete works in machine foundation due provision has been made in the rates for idling of machinery and labour due to slow progress of concreting.
12. For painting and major structural steel works, the rate per m2 provided in the SR for painting may be converted into rate per tonne on the basis of computed area of the structural steel sections used and the total quantity of steel used allowing for laps, concealed surfaces etc., on percentage basis.

POWER HOUSE AND ALLIED WORKS

STATEMENT-B

REQUIREMENT OF MATERIALS FOR VARIOUS ITEMS OF WORK

Item No.	Description of work in brief	Unit	Cement (kg)	Fine Aggregate (m^3)	Coarse Aggregate (m^3)
3a)	CC M-10(80 mm and down)	m^3	217	0.363	1.082
b)	CC M-10(40 mm and down)	m^3	237	0.414	0.961
4a)	CC M-15(80 mm and down)	m^3	242	0.361	1.074
b)	CC M-15(40 mm and down)	m^3	273	0.407	0.944
c)	CC M-15(20 mm and down)	m^3	308	0.442	0.788
5a)	CC M-20(40 mm and down)	m^3	323	0.391	0.906
b)	CC M-20(20 mm and down)	m^3	364	0.424	0.756
c)	CC M-20(10 mm and down)	m^3	394	0.479	0.636
6a)	CC M-25(40 mm and down)	m^3	384	0.381	0.883
b)	CC M-25(20 mm and down)	m^3	434	0.410	0.732
c)	CC M-25(10 mm and down)	m^3	414	0.430	0.777
7a)	CC M-30(40 mm and down)	m^3	434	0.373	0.866
b)	CC M-30(20 mm and down)	m^3	404	0.387	0.826
c)	CC M-30(10 mm and down)	m^3	424	0.385	0.788
9	Porous concrete drain	m	9.89	0.012	0.027
10	Grouting cement mortar 1:1	t	1010	0.624	
Note:	The quantities of materials are inclusive of wastage as indicated below:				
	Cement	1%			
	Fine aggregates	3%			
	Coarse aggregates	3%			

Sl. No.	Specification	Unit	Rate ₹
	POWER HOUSE AND ALLIED WORKS		
1 a)	Excavation in hard rock of all toughness including boulders exceeding 1.0 m^3 in volume for seating all Power House and appurtenant structures including tail race pond/tail race channel, minimizing damage to the rock beyond excavation line including placing neatly and/ or disposing off the excavated stuff as directed etc., complete with all leads and lifts.	m^3	**438.00**
b	Excavation by controlled/muffled blasting wherever required including cost of all materials, machinery, labour, depositing and/or disposing off the excavated materials as directed etc., complete with all leads and lifts. (For Power House and Allied works)	m^3	**1043.00**
c	Excavation by smooth blasting or pre-splitting wherever required including cost of all materials, machinery, labour, depositing and/or disposing off the excavated materials as directed etc., complete with all leads and lifts. (For Power House and Allied works)	m^3	**1275.00**
	Note: If stacking of excavated rubble is required, add Rs. 15.00/m^3 for items. 1(a), 1(b) & 1(c)		
2	Excavating trenches in rock about 10 cm wide and 10 cm deep for providing ground mat wherever required including cost of all materials, machinery, labour, depositing and/or disposing off the excavated materials as directed etc., complete with all leads and lifts. (For Power House and Allied works)	m	**276.00**
3	Providing and laying insitu vibrated cement concrete M-10 using approved clean, hard, graded aggregates including cost of all materials, machinery labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Power House and Allied works)		
a	Using 80mm and down coarse aggregates and 28 days cube compressive strength, Cement content=215kg/m^3		
	i) Foundation filling, backfilling, base course for flooring and similar works	m^3	**7260.00**
	ii) Gravity type retaining walls, key walls and similar works.	m^3	**7333.00**
b	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=235kg/m^3		
	i) Foundation filling, backfilling, base course for flooring and similar works	m^3	**7387.00**
	ii) Gravity type retaining walls, key walls and similar works.	m^3	**7460.00**
4	Providing and laying insitu vibrated cement concrete M-15 using approved clean hard, graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing, etc., complete with all leads and lifts. (For Power House and Allied works)		

Sl. No.	Specification	Unit	Rate ₹
a)	Using 80mm and down coarse aggregates and 28 days cube compressive strength, Cement content=240kg/m^3		
	i) Foundation filling, backfilling, base course for flooring and similar works	m^3	**7429.00**
	ii) Gravity type retaining walls, key walls, by-pass weirs, intake piers, abutments and similar works.	m^3	**7502.00**
b)	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=270kg/m^3		
	i) Foundation filling, backfilling, base course for flooring, base mulsifire water tanks and similar works	m^3	**7599.00**
	ii) Gravity type retaining walls ,key walls, Bypass weirs, intake piers, abutments, Cantilever/counterfort retaining walls, skin walls, water tanks and similar works.	m^3	**7677.00**
	iii) Partition walls, cable shafts, lift shafts, fire protection walls, Paving including formation of drains/gutters, Transformer track, Lining of tail race pond, bed and side lining of channel, Cable ducts and other similar works.	m^3	**7750.00**
	iv) Tower footing, equipment pedestals in ODY, Jacket concreting of pipelines and similar works	m^3	**7677.00**
c)	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=305kg/m^3		
	i) Bed & side lining of channel, Cable ducts and other similar works.	m^3	**7962.00**
5	Providing and laying insitu vibrated cement concrete M-20 using approved clean ,hard, graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Power House and Allied works)		
a)	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=320kg/m^3		
	i) Foundation filling, backfilling, base course for flooring, base of mulsifire water tanks and similar works	m^3	**7877.00**
	ii) Gravity type retaining walls, key walls, Bypass weirs, Intake piers, abutments, Cantilever/counterfort retaining walls, skin walls, water tanks, Footings for columns, walls and similar works.	m^3	**7950.00**
	iii) Partition walls, cable shafts, lift shafts, fire protection walls, walls from truss bottom upto roof, Columns, Tie beams, chajjas, catwalk slabs, lintels, Crane beams, Tail race piers, abutments, draft tube slabs, diaphragm walls and similar works, Machine hall substructures (I stage) including forming galleries, adits, openings, sumps, hatches etc.,	m^3	**8028.00**

Sl. No.	Specification	Unit	Rate ₹
	iv) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,		**11228.00**
	v) Intermediate floor slabs including beams, stair case, tail race deck slab, including providing openings, niches, hatch ways, drains etc., Cable duct, Tail race pond bed, lining of channel and similar works.	m^3	**8028.00**
	vi) Tower footings, equipment pedestals, Jacket concreting for pipelines and similar works.	m^3	**7950.00**
b)	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=360kg/m^3		
	i) Partition walls, cable shafts, lift shafts, fire protection walls, Roof and canopy slabs including gutters, Cable duct, Fins, intermediate floor slabs including beams, stair case, tail race deck slab including providing openings, niches, hatch ways, drains etc., Transformer tracks and similar works.	m^3	**8282.00**
	ii) Tower footings, equipment pedestals in switch yards and similar works.	m^3	**8204.00**
c)	Using 10mm and down coarse aggregates and 28 days cube compressive strength, Cement content=390kg/m^3.		
	(i) Fins and similar works.	m^3	**8459.00**
6	Providing and laying insitu vibrated cement concrete M-25 using approved clean, hard, graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Power House and Allied works)		
a)	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=380kg/m^3		
	i) Foundation filling, backfilling, base course for flooring, base of mulsifire water tanks and similar works.	m^3	**8258.00**
	ii) Cantilever / counterfort retaining walls, skin walls, water tanks and similar works.	m^3	**8343.00**
	iii) Partition walls, cable shafts, lift shafts, fire protection walls, walls from truss bottom upto roof, Columns, Tie beams, chajjas, catwalk slabs, lintels, Crane beams, Tail race piers, abutments, draft tube slabs, diaphragm walls and similar works, Machine hall substructures (I stage) including forming galleries, adits, openings, sumps, hatches etc.,	m^3	**8422.00**
	iv) Footings for columns, walls and similar works.	m^3	**8343.00**
	v) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,	m^3	**11622.00**

Sl. No.	Specification	Unit	Rate ₹
	vi) Intermediate floor slabs including beams, stair case, tail race deck slab including providing openings, niches, hatch ways, drains etc., Transformer tracks, Cable ducts, Tail race pond bed, lining of channel and similar works, Generator barrel including forming niches, openings etc.,	m^3	**8422.00**
	vii) Tower foundations, equipment pedestals and similar works.	m^3	**8343.00**
b)	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=430kg/m^3.		
	i) Cantilever/counterfort retaining walls, skin walls, water tanks and similar works	m^3	**8652.00**
	ii) Partition walls, cable shafts, lift shafts, fire protection walls, Roof and canopy slabs including gutters, Roof and canopy slabs including gutters, Cable ducts, Fins and similar works, Generator barrel including forming niches, openings etc., Concreting for block outs.	m^3	**8736.00**
	iii) Intermediate floor slabs including beams, stair case, tail race deck slab including providing openings, niches, hatch ways, drains, Columns, Tie beams, chajjas, catwalk slabs, lintels, Crane beams, etc., Tail race piers, abutments, draft tube slabs, diaphragm walls and similar works, Machine hall substructures (I stage) including forming galleries, adits, openings, sumps, hatches etc.,	m^3	**8736.00**
	iv) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,	m^3	**11937.00**
	v) Jacket concreting for pipelines and similar works.	m^3	**8652.00**
c)	Using 10mm and down coarse aggregates and 28 days cube compressive strength, Cement content=410kg/m^3		
	i) Fins and similar works.	m^3	**8633.00**
	ii) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc., Roof and canopy slabs including gutters and similar works, Generator barrel including forming niches, openings etc.	m^3	**11834.00**
7	Providing and laying insitu vibrated cement concrete M-30 using approved clean, hard, graded aggregates including cost of all materials, machinery, labour, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with all leads and lifts. (For Power House and Allied works)		
a)	Using 40mm and down coarse aggregates and 28 days cube compressive strength, Cement content=430kg/m^3		
	i) Foundation filling, backfilling, base course for flooring base of mulsifire water tanks and similar works.	m^3	**8585.00**
	ii) Footings for columns, walls and similar works.	m^3	**8670.00**

Sl. No.	Specification	Unit	Rate ₹
	iii) Columns, Crane beams, Tie beams, chajjas, catwalk slabs, lintels, Tail race piers, abutments, diaphragm walls and similar works, Machine hall substructures (I stage) including forming galleries, adits, openings, sumps, hatches etc.,	m^3	**8754.00**
	iv) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,	m^3	**11955.00**
	v) Intermediate floor slabs including beams, stair case, tail race, deck slab including providing including providing openings, niches, hatch ways, drains etc, Generator barrel including forming niches, openings etc.,	m^3	**8754.00**
b)	Using 20mm and down coarse aggregates and 28 days cube compressive strength, Cement content=480kg/m^3		
	i) Roof and canopy slabs including gutters and similar works, Intermediate floor slabs including beams, stair case, tail race, deck slab including providing including providing openings, niches, hatch ways, drains etc. Generator barrel including forming niches, openings etc.,	m^3	**8543.00**
	ii) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,	m^3	**11743.00**
c)	Using 10mm and down coarse aggregates and 28 days cube compressive strength, Cement content=520kg/m^3		
	i) Machine hall substructures (II stage) including forming galleries, openings, cut outs, trenches etc.,	m^3	**11846.00**
8	Providing, transporting, fabricating, lowering and erecting/placing in position around spiral casing 200 mm dia MS pipes of 6 mm thick including cost of materials, machinery, labour, cutting, bending, grinding, welding etc., complete with all leads and lifts. (For Power House and Allied works)	m	**2445.00**
9	Providing and laying insitu porous concrete drain of size 250mm at base X 150 mm at top X 150 mm height around spiral casing including providing and placing 80 mm dia perforated pipe at centre for draining water using 20 mm and down approved, clean, hard, graded coarse aggregates in 1:5.5 proportion by weight having 28 days cube compressive strength not less than 75kgs/cm^2 including plastering in CM 1:6 by weight including cost of all materials, machinery, labour, curing etc., complete with all leads and lifts. (For Power House and Allied works)		
a)	Using perforated PVC pipe of 80 mm dia (to withstand a pressure of 20.5 kgs/cm^2)	m	**464.00**
b)	Using perforated GI pipe of 80 mm dia (B class)	m	**802.00**
10	Grouting with cement mortar 1:1 proportion by weight using pneumatic grout pump through grout holes under pressure using clean & approved sand including cost of all materials, machinery, labour etc., complete with all leads and lifts. (For Power House and Allied works)	t	**18190.00**

Sl. No.	Specification	Unit	Rate ₹
11	Grouting foundations, base plates, pockets and inaccessible locations using free flow non shrink grout mix including cost of all operations such as mixing to required consistency, conveying, pouring, labour, curing etc., complete with all leads and lifts. (excluding cost of grout mix.) (For Power House and Allied works)	t	**9380.00**
12	Splicing reinforcement bars by bar grip splicing method using steel splice sleeves of suitable length and diameters to give a tensile strength of not less than 425 N/mm2 including cost of all materials, machinery, labour, sampling and testing etc., complete with all leads and lifts. (For Power House and Allied works)	Each splice	
a)	25mm dia		**1562.00**
b)	28mm dia		**1780.00**
c)	32 mm dia		**2065.00**
d)	36 mm dia		**2530.00**
e)	40 mm dia		**3050.00**
13	Fabricating, transporting to site, hoisting and erecting structural steel member fabricated from rolled steel sections like channels, angles, flat, I-sections, plates, rails etc., as per drawing including cost of all materials, machinery, labour, operations such as cutting, bending, grinding, welding, etc., and providing one coat of zinc chromate red oxide primer after scrapping and cleaning the surface, etc., complete with all leads and lifts (excluding cost of steel but including wastage). (For Power House and Allied works)	t	**46085.00**
14	Providing primer painting to structural steel surfaces with epoxy primer paint of approved quality including cleaning the surface, cost of all materials, labour, etc., complete with all leads and lifts. (For Power House and Allied works)		
a)	Base coat	m^2	**205.00**
b)	Each additional coat	m^2	**200.00**
15	Providing and placing joint filler board (20mm thick) between columns, beams and machine foundation including cost of all materials, labour etc., complete with all leads and lifts. (For Power House and Allied works)	m^2	**851.00**
16	Providing and fixing 2 mm thick homogenous polyvinyl flooring of approved make, shade and colour, including cleaning and preparing the surface prior to spreading of mat, cost of all materials, machinery, labour etc., complete with all leads and lifts. (For Power House and Allied works)	m^2	**910.00**
17	Cutting grooves, pockets, openings in concrete to specified size carefully without damaging the adjoining area including disposal of debris, cleaning the area, etc., complete with lead upto 50m and all lifts. (For Power House and Allied works)		

Sl. No.	Specification	Unit	Rate ₹
a)	Upto 50 mm depth from surface	m^2	**914.00**
b)	More than 50 mm upto 100 mm depth from surface	m^2	**3300.00**
c)	More than 100 mm upto 200 mm depth from surface	m^2	**6595.00**
18	Removing silt and slush from dewatering pit, draft tube, tail race pond, cooling towers etc., by mechanical means/ manually including multiple handling wherever necessary and stacking etc., complete with all leads and lifts. (For Power House and Allied works)	m^3	**555.00**
19	Removing bee-hives from the structural steel members, walls, roofs, gates, dam faces etc., as per directions. (For Power House and Allied works)	Each	**322.00**
20	House Keeping of Building premises including sweeping, swabbing of floors, cleaning of all equipments, furnitures, walls, doors, windows, ventilators, toilets, M.S gates/Grills, etc., including cost of all materials such as brooms, phenyl, soap oil, mopping stick, urinal cakes, Naphtalene balls, room fresh-ners etc., as per the direction of engineer-in-charge.	m^2	**1.78**

Notes