

**IRRIGATION AND WATER
RESOURCES
DEPARTMENT UTTAR
PRADESH**



सिंचनेन समृद्धिः भवति

**SCHEDULE OF RATES
OPERATING WITH EFFECT FROM
01.10.2021**

**APPLICABLE
IN
KANPUR COMMISSIONARY**

कार्यालय अधीक्षण अभियन्ता
द्वितीय मण्डल सिंचाई कार्य
कानपुर

दूरभाष नं०/फैक्स नं० : 0512-2380818


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पत्रांक- C-29 द्विमसिका/दर अनुसूची,

दिनांक: कानपुर: 01.10.2021

कार्यालय-ज्ञाप

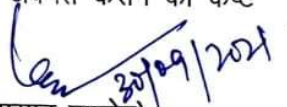
राजस्व मण्डल, कानपुर में दिनांक 01.12.2019 से प्रचलित दर अनुसूची के पुनरक्षित किये जाने हेतु कार्यालय द्वितीय मण्डल, सिंचाई कार्य कानपुर के तत्वाधान में आहूत बैठक में व्यापक विचार-विमर्श के पश्चात् अधीक्षण अभियन्ता की दर अनुसूची समिति द्वारा लिये गये निर्णय के आधार पर संलग्नक के अनुसार दरों की स्वीकृत एतद्वारा प्रदान की जाती है। पुनरीक्षित दर अनुसूची राजस्व मण्डल, कानपुर में सिंचाई विभाग के समस्त सिविल/यांत्रिक खण्डों में दिनांक 01.10.2021 से प्रभावी होगी।


(कौशलेश प्रसाद पाण्डेय)
अधीक्षण अभियन्ता/अध्यक्ष
दर अनुसूची समिति

पत्रांक:-C-29 /द्विमसिका/ दर अनुसूची /तदिनांक:-01.10.2021

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

1. महालेखाकार-प्रथम, सी0ए0एस0 वर्क्स ऑडिट सेक्शन उ0प्र0, इलाहाबाद।
2. मुख्य अभियन्ता, स्तर-1, सिंचाई एवं जल संसाधन विभाग, उ0प्र0, लखनऊ।
3. मुख्य अभियन्ता (रामगंगा), सिंचाई एवं जल संसाधन विभाग, उ0प्र0, कानपुर।
4. मुख्य अभियन्ता (नलकूप मध्य), सिंचाई विभाग, उ0प्र0, लखनऊ।
5. अधीक्षण अभियन्ता, सिंचाई कार्य मण्डल, कानपुर।
6. अधीक्षण अभियन्ता बैराज निर्माण मण्डल, कानपुर।
7. अधीक्षण अभियन्ता, ड्रेनेज मण्डल, कानपुर।
8. अधीक्षण अभियन्ता, नलकूप मण्डल, कानपुर।
9. अधीक्षण अभियन्ता, सिंचाई कार्य मण्डल, इटावा।
10. समस्त अधीक्षण अभियन्ताओं को इस आशय से प्रेषित है कि अपने अधीनस्थ अभियन्ताओं को अपने पुनरीक्षित दर अनुसूची प्रभावी दिनांक 01.10.2021 के विषय में अपने स्तर से अवगत कराने का कष्ट करें।



(कौशलेश प्रसाद पाण्डेय)
अधीक्षण अभियन्ता/अध्यक्ष
दर अनुसूची समिति


**सिंचाई एवं जल संसाधन विभाग,
उत्तर प्रदेश, कानपुर
पुनरीक्षित दर अनुसूची, राजस्व मण्डल, कानपुर**


राजस्व मण्डल, कानपुर के अन्तर्गत कानपुर, कानपुर देहात, इटावा, औरैया, फर्रुखाबाद एवं कन्नौज जनपदों में सिंचाई विभाग के विभिन्न खण्डों द्वारा निर्माण, अनुरक्षण तथा अनुसंधान एवं नियोजन के कार्य कराये जा रहे हैं। इनके कार्यों हेतु दर अनुसूची पूर्व में दिनांक 01.12.2019 में पुनरीक्षित की गई थी।

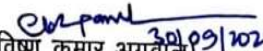
दर अनुसूची पुनरीक्षित किये हुये डेढ वर्ष से अधिक का समय व्यतीत हो चुका है। इतने अधिक समय अन्तराल के पश्चात् निर्माण सामग्री एवं मजदूरी में बढ़ोत्तरी होने के फलस्वरूप वर्ष 2019 की दर अनुसूची पर कार्यों के सम्पादन में कठिनाई हो रही है। अतः कार्यों को सूचारु रूप से सम्पादित कराने के लिए वर्तमान में प्रचलित दर अनुसूची को पुनरीक्षित किया जाना अपरिहार्य है। कार्यालय अधीक्षण अभियन्ता, अनुसंधान एवं नियोजन मण्डल-2, सिंचाई विभाग एनेक्सी भवन लखनऊ के पत्रांक-901/अनिम-2/यू-5, दिनांक 13.04.2021 के क्रम में दर अनुसूची पुनरीक्षित करने के लिये इस कार्यालय के पत्रांक-4507/द्विमसिका/दर अनुसूची दिनांक:-16.08.2021 के द्वारा राजस्व मण्डल से सम्बन्धित सिंचाई विभाग के समस्त अधीक्षण अभियन्ताओं को प्रस्ताव/सुझाव उपलब्ध कराने हेतु लिखा गया। इसके पश्चात् दिनांक:-27.08.2021 को दर अनुसूची पुनरीक्षित करने के लिए बैठक में क्षेत्रीय अधिकारियों से प्राप्त प्रस्तावों, मुख्य अभियन्ता ड़िल से अगणित दर, विभिन्न निर्माण सामग्री सूचकांक एवं श्रम सूचकांक तथा निकट राजस्व मण्डल जैसे बरेली एवं आगरा की लागू दर अनुसूचियों का अध्ययन एवं आपसी विचार विमर्श के उपरान्त दर अनुसूची के अधिकांश चैप्टर संलग्नक के अनुसार समस्त मदों की दरों को पुनरीक्षित दरें निर्धारित की गई है। पुनरीक्षित दर अनुसूची में कार्य की आवश्यकतानुसार कुछ चैप्टरर्स जैसे सर्वेक्षण, बाढ़ कार्य, बांध एवं बन्धा कार्य को भी सम्मिलित किया गया है। समिति द्वारा भवन से सम्बन्धित आवश्यक मद न होने के कारण नये भवनों के निर्माण एवं अनुरक्षण कार्य हेतु भवन से सम्बन्धित मदों को सम्मिलित करने का प्रस्ताव प्रस्तुत किया गया जिसके क्रम में दिल्ली दर अनुसूची-2021 से आवश्यक मदों को भी दर अनुसूची में सम्मिलित किया गया है। यांत्रिक कार्यों से सम्बन्धित समस्त मदों की दरों को पुनरीक्षित किये जाने के प्रस्ताव यांत्रिक विभाग के अधिकारियों के द्वारा उपलब्ध कराये गये हैं।


पुनरीक्षित दर अनुसूची में दी गयी दरें राजस्व मण्डल, कानपुर में सिंचाई विभाग के समस्त सिविल एवं यांत्रिक खण्डों में प्रभावी होगी। पुनरीक्षित दर अनुसूची दिनांक 01.10.2021 से प्रभावी मानी जायेंगी।



(डी०के०मिश्रा) 30/09/2021
अधीक्षण अभियन्ता
बैराज निर्माण मण्डल
कानपुर



(आर० के० चौबे)
अधीक्षण अभियन्ता
सिंचाई कार्य मण्डल,
कानपुर


(ओ० पी० चौबे)
अधीक्षण अभियन्ता
नलकूप मण्डल
कानपुर


(विष्णु कुमार अग्रवाल) 30/09/2021
अधीक्षण अभियन्ता
ड्रेनेज मण्डल
कानपुर


(विजय कुमार) 30/09/2021
अधीक्षण अभियन्ता
सिंचाई कार्य मण्डल, इटावा


(सत्य प्रकाश सिंह)
अधीक्षण अभियन्ता
सिंचाई कार्यशाला मण्डल, कानपुर


(कौशलेश प्रसाद पाण्डेय)
अधीक्षण अभियन्ता
द्वितीय मण्डल, सिंचाई कार्य, कानपुर

कार्यालय प्रमुख अभियन्ता,

**(जाँच अनुभाग)
सिंचाई विभाग, कानपुर**

संख्या 5443/जाँ0अ0/विधिक,

दिनांक: लखनऊ, 2 जुलाई, 1992

कार्यालय-ज्ञाप

वित्तीय हस्त-पुस्तिका खण्ड-6 के प्रस्तर में निम्न प्राविधान है।

To facilitate the preparation of estimate and also to serve as a guide in setting rates in connection with contract agreement, a schedule of rates, for each kind of work generally executed should be maintained in the division and kept up to date. It should be prepared on the basis of rates prevailing in each locality and necessary analysis or rate for each description of work and for the varying conditions thereof should so far as may be practical, be recorded.

The rates entered in the estimate should generally agree with the scheduled rates but where from any causes the latter are not considered sufficient the deviation should be explained in detail record on estimate.

वर्तमान में सिंचाई विभाग में अधीक्षण अभियन्ताओं द्वारा जो दर सारणी स्वीकृत की जाती है, उसमें मात्र लेबर व ढुलाई की दरें दिये जाने की प्रथा है, परन्तु उक्त नियम अनुसार दर सारणी सामान्य रूप से प्रयोग होने वाली सामग्रियों के भी दर का प्राविधान होना चाहिये, तथा सार्वजनिक निर्माण विभाग में दर-सारणी में मैटीरियल्स की दर भी दिये जाते हैं।

महँगाई के साथ लेबर व मैटीरियल्स की दरें बहुत शीघ्र बढ़ रही है तथा विभाग में दर सारणी कई वर्षों के अन्तराल पर पुनरीक्षित की जाती है, जिससे कार्य कराने वाले अधिकारियों को बहुत कठिनाइयों का सामना करना पड़ता है तथा विभिन्न मदों की दरें तथा दर विश्लेषण बार-बार अधीक्षण अभियन्ता से स्वीकृत कराने पड़ते हैं जिससे बहुत समय नष्ट होता है।

अतः उक्त परिस्थितियों को ध्यान में रखते हुए यह आदेश दिये जाते हैं कि सिंचाई विभाग में किसी भी जिले में कराये जा रहे कार्य हेतु उनके प्रयुक्त होने वाले सामान आदि की दरें उस दिन से सम्बन्धित उस समय लागू सार्वजनिक निर्माण विभाग, उ०प्र० की स्वीकृत दर सारणी में की गयी दरें यथावत सिंचाई विभाग में भी लागू मानी जायेगी। यह भी अवगत कराना है कि सार्वजनिक निर्माण विभाग के सेनेटरी व इलेक्ट्रिकल वर्क्स की लागू एवं स्वीकृत दर सारणी यथावत सिंचाई विभाग के लिये लागू मानी जायेगी।

सार्वजनिक निर्माण विभाग, उत्तर प्रदेश द्वारा दर सारणी माह अप्रैल में पुनरीक्षित किये जाने के आदेश हैं, तदनुसार ही संशोधित दरें लागू मानी जायेगी। सम्बन्धित जिले में अधीक्षण अभियन्ता, सार्वजनिक निर्माण विभाग, उत्तर प्रदेश के मण्डलों में दर सारणी पुनरीक्षित करते समय यथा आवश्यकता विभाग का मत भेज सकते हैं।

अधीक्षण अभियन्ता सिंचाई विभाग प्रत्येक वर्ष माह अप्रैल में अपने मण्डल में लागू लेबर दरों की दर सारणी अपने मण्डल से सम्बन्धित अधिशाषी अभियन्ताओं की बैठक बुलाकर पुनरीक्षित करेंगे तथा यदि किसी अतिरिक्त मद की दरें सम्मिलित करना आवश्यक होगा, तो उसे भी सम्मिलित कर लिया जायेगा।

यह भी स्पष्ट करना है कि जिन सामान (Material) की दरे सार्वजनिक निर्माण विभाग की दर सारणी में उपलब्ध नहीं है या किसी ऐसे सामान की दर जो सार्वजनिक निर्माण विभाग की दर सारणी में उपलब्ध है परन्तु बाजार भाव बढ़ने या किसी विशेष कारण से सार्वजनिक निर्माण विभाग की दर सारणी से अधिक दर दी जाती है तो सिंचाई विभाग अधीक्षण अभियन्ता उसे कारण आदि अंकित करते हुए स्वीकृत करने के लिये सक्षम होंगे।

उक्त आदेश तत्काल लागू होंगे

बी०बी०एल गोयल
प्रमुख अभियन्ता

संख्या 5443(1)जाँ०अ०/तदिनांक:

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं तुरन्त आवश्यक कार्यवाही हेतु प्रेषित है:-

प्रमुख अभियन्ता, सार्वजनिक निर्माण विभाग, उ०प्र० लखनऊ को इस अनुरोध से प्रेषित है कि वह अपने अधीनस्थ समस्त अधीक्षण अभियन्ताओं को यह निर्देश देने का कष्ट करें कि वह माह अप्रैल में दर सारणी पुनरीक्षित करते हुए होने वाली बैठक की सूचना सिंचाई विभाग के सम्बन्धित जिले के अधीक्षण अभियन्ताओं को भी देने का कष्ट करें, जिससे दर सारणी स्वीकृत करते समय सिंचाई विभाग की अपनी कठिनाइयों से अवगत कराते हुए अपना पक्ष प्रस्तुत कर सकें।

कृपया यह भी आदेश देने की कृपा करें कि अधीक्षण अभियन्ता अपने मण्डल से सम्बन्धित दर सारणी की प्रतियाँ सिंचाई विभाग के सम्बन्धित जिले के अधीक्षण अभियन्ताओं को उनके मांग अनुसार उपलब्ध करायें तथा भविष्य में प्रत्येक पुनरीक्षित दर सारणी की अतिरिक्त प्रतियाँ उनकी मांग अनुसार उन्हें उपलब्ध कराते रहें।

1. प्रमुख अभियन्ता (परिकल्प एवं नियोजन), सिंचाई विभाग, उ०प्र० लखनऊ
2. प्रमुख अभियन्ता (यांत्रिक), सिंचाई विभाग, उ०प्र० लखनऊ
3. प्रमुख अधीक्षण अभियन्ता, सिंचाई विभाग, उ०प्र०।
4. समस्त अधिशाषी अभियन्ता, सिंचाई विभाग, उ०प्र०।
5. समस्त सहायक अभियन्ता, सिंचाई विभाग, उ०प्र०।
6. संयुक्त सचिव इकाई-10 अनुभाग, उ०प्र० शासन, लखनऊ
7. मुख्य प्राविधिक परीक्षक (सिंचाई) उ०प्र० शासन, विकास भवन जनपथ, हजरतगंज, लखनऊ
8. संयुक्त सचिव- सतर्कता (सिंचाई) अनुभाग, उ०प्र० लखनऊ
9. महालेखाकार, उ०प्र० इलाहाबाद

के०के० साहनन
वरिष्ठ स्टाफ अधिकारी (जाँच)
कृते प्रमुख अभियन्ता, सिंचाई विभाग

**कार्यालय मुख्य अभियन्ता
सिंचाई विभाग, उत्तर प्रदेश**

संख्या 5918-नि-7,

दिनांक: लखनऊ, जून, 30, 1978

इस कार्यालय के पत्र सं० 5918 आई०डब्ल्यू० 2/96 बी० 89 डब्ल्यू 5152 दिनांक मार्च 1961 (प्रतिलिपि संलग्न) के आंशिक संसोधन में निम्नलिखित आदेश पारित किये जाते हैं:

नहरों तटबंधों तथा अन्य बन्धों के निर्माणार्थ मिट्टी के कार्य हेतु किये जाने वाले अनुबन्धों में जहाँ जनशक्ति (Manual Compaction) से कम्पैक्शन किया जाए वहाँ सेटिलमेन्ट एलाउन्स (Settlement Allowance) की कटौती किये जाने के सम्बन्ध में अनुबंधों एवं उनकी निविदा निर्दिष्टियों (Tender Specification) में निम्नलिखित प्राविधान किये जाये-

1. समस्त अनुबन्धों में जहाँ अन्तिम भुगतान क्रास सेक्शन के आधार पर होना है, उन पर की गई मिट्टी की मात्रा में से दस प्रतिशत सेटिलमेन्ट एलाउन्स घटाकर भुगतान होगा।
 2. सामान्यतः कार्य समाप्त होने के एक माह के अन्दर माप करके भुगतान हो जाना चाहिए। यदि किसी कारण ऐसा नहीं हो पाता और मिट्टी के ऊपर अनुबन्ध के अनुसार दी गयी समयावधि (Time Limit) के बाद एक वर्षा ऋतु पूरी गुजर जाती है और क्रास सेक्शन बाद के लिए किये जाते हैं, तो सेटिलमेन्ट एलाउन्स केवल पांच प्रतिशत ही काटा जायेगा।
 3. यह अनुबन्ध के अनुसार दी गयी समयावधि के बाद दो वर्षों ऋतु या उससे अधिक समयस व्यतीत हो जाता है तो सेटिलमेन्ट केवल 2.5 प्रतिशत काटा जायेगा।
 4. वर्षा ऋतु अवधि, प्रतिवर्ष 1 जुलाई से 15 अक्टूबर तक समझी जाएगी तथा वर्ष ऋतु की अवधि की गणना कार्य समाप्त के बाद से ही जायेगी।
- अनुबन्धों में उपरोक्तानुसार प्राविधान के साथ-साथ यह भी स्पष्ट रूप से अंकित किया जाना चाहिए कि मिट्टी कटाई का कार्य जनशक्ति भली भाँति कराया जाये।

हरिकृष्ण
मुख्य अभियन्ता, सिंचाई विभाग

संख्या 5918- नि० 1 दिनांक,

प्रतिलिपि- निम्नलिखित को सूचनार्थ एक आवश्यक कार्यवाही हेतु प्रेषित:-

1. अतिरिक्त मुख्य अभियन्ता, रामगंगा परियोजना, कालागढ़, यमुना परियोजना एवं देहरी परियोजना देहरादून।
2. निदेशक सिंचाई अनुसंधान रुड़की एवं केन्द्रीय परिकल्प निदेशालय, सिंचाई विभाग, लखनऊ।
3. समस्त वैयक्तिक सहायक, कार्यालय मुख्य अभियन्ता, सिंचाई विभाग।
4. समस्त वैयक्तिक सहायक, कार्यालय मुख्य/अतिरिक्त अभियन्ता, सिंचाई विभाग।
5. शिविर सहायक, मुख्य अभियन्ता एवं अतिरिक्त मुख्य अभियन्ता।
6. समस्त निर्माण अनुभाग कार्यालय मुख्य अभियन्ता, सिंचाई विभाग लखनऊ, उ०प्र० लखनऊ।

बालेश्वर दास
वैयक्तिक सहायक (शारदा)
कृते मुख्य अभियन्ता सिंचाई विभाग
लखनऊ उ०प्र०

**Chief Engineer Officer
Irrigation Department, U.P.**

6571/IW/1195 B-39W/51-52 Dated Lucknow March 1961

Subject: Measurement of Earth work by Cross Section

Superintending Engineer and Executive Engineers, Irrigation Department U.P.

In the Audit report of a certain division it has been pointed out by the Accountant General, U.P. that no deduction on account of settlement allowance was made because a long time has elapsed between date of the completion of the work and the date of measurement. This has resulted in over payment of the contractor. This question has been considered in details in the office and it has been decided that the individual cases where it is proposed by the Executive Engineers that provision for settlement allowance made in the contract should be waived on account of delay in measurement or other causes not due to fault of the contractor, the case should be reported to the next higher authority than that entering in to contract giving the following information.

- i. Date of completion of work.
- ii. Date of Final Measurement.
- iii. Reason for delay in measurement if the period between (i) and (ii) exceeded one month.
- iv. Particulars of method and specification adopted for placement of earth.
- v. Particulars of method adopted for compacting earth.
- vi. Method of measurement provided in the contract and actually adopted.
- vii. Account of settlement allowance provided in the contract.
- viii. Extent of reduction proposed in the allowance giving full justification for each proposal.
- ix. Quantity of work executed by the end of each working season and measured before the following monsoon for making running payments.

The next Superior authority will pass suitable orders on the proposal after taking in to account the number of rainy seasons if any, that intervened between the date of completion and the date of final measurement but such delays in measurements should be discouraged and all such cases should be reported to the chief engineer along with the explanation of the persons responsible for the delay in the measurement as it is proposed to take stringent disciplinary action unless it was impracticable to record the measurement before the break of the monsoon following the date of the completion of the work. In such cases, the reduction in the settlement allowance should be 50% in the first year after passage of one monsoon and the remaining 50% in the second year after monsoon.

1. In cases where due to the very nature of the work. Each work in some reaches of embankments has to be done in layers in different working seasons. Provision would be made in the contract agreement, for following settlement as mentioned in working para 2 above in the respect of layers of the work which cannot be completed and finally paid for within the working season in which such layer of earth has been placed.

No 6571 (i) IW of dates

Copy forwarded for information to the Account General, U.P. Allahabad with reference to this letter No. W.M.I-Misc-1029/21 Dt. 8.8.1960

Attar Singh
Personal Assistant(s)
For Chief Engineer (E)

Attar Singh
Personal Assistant(s)
For Chief Engineer (E)

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Schedule of Consumption

Quantities of Material Equivalent to One M.T. Will be taken as below

S.No.	ITEM	Qty.
1	2	3
1	Brick (23 cm. x 11 cm. x 7 cm.)	333
2	Cement Bags (50 kg Bag)	20
3	Sand	0.64
4	Brick Rora /Kankar/Brick Ballast	0.94
5	Boulder	0.69
6	Stone Ballast	0.71
7	Single/Pea Gravel/River bed material	0.64
8	Lime Kankar /Lime Surkhi	0.85
9	Earth	0.64
10	Kankar	0.94

Consumption Norms

11	Old / used empty cement bags filled with local earth/ sand	35 bags
12	New empty cement bags filled with local earth/ sand	28 bags
13	Geo. Bags (size 1.09 m. x 0.69 m.) filled with local earth /sand	8 bags
14	Consumption of Material in R.C.C. and C.C. per cum i.e. cement bag, sand and grit as per latest I.S. code and as per Chief Engineer's Drill or as per Standard data book for analysis of rates of Ministry of Road and highway.	

Chapter-1
Basic Labour Rates

S.No.	NAME OF ITEM	UNIT	RATE in (RS)
1	2	3	4
1	Unskilled labour i.e. Beldar/Chaukidar/sweeper/waterman, etc.	Each day	349.00
2	Semi-skilled labour i.e. telephone attendant/cook /runner/ waterman, Mali & sweeper with experience /bhishti with mashak / mate etc.	Each day	384.00
3	Skilled Labour i.e. Boring machine Operator, Driver, Pump/ Concrete Mixer /Vibrator/ Generator/ Photostate Machine Operators	Each day	430.00
4	Carpenter	Each day	445.00
5	Black smith	Each day	384.00
6	Painter	Each day	430.00
7	Mason/ Mistri	Each day	570.00
8	Bhaissa Buggy/ Bullock Cart with Cart-man.	Each day	600.00
9	Plumber/ Electrician/Welder/ Fitter.	Each day	430.00
10	Boatman	Each day	384.00
11	Boatman with country boat.	Each day	430.00
12	Work supervisor, Tracer, Gauge reader	Each day	430.00
13 (a)	Hiring of tractor with trolley 25-35 HP with driver and without POL.	Per day	1210.00
13 (b)	Hiring of tractor with trolley 25-35 HP with driver and without POL. Subject to maximum Rs.600 for 4 hrs.	Per Hour	180.00
14 (a)	Hiring of diesel pumps 5HP including operator and POL.	Per Hour Running	150.00
14 (b)	Hiring of diesel pumps 5HP including operator but excluding Fuel.	Per Hour Running	65.00
15	Hiring of Indian Poclain 125 HP/20 LTR /Hour including operator and POL.	Per Hour	2475.00
16	Hiring of JCB Machine including operator and POL.	Per Hour	1170.00
17	2 Donkey with labour.	Each day	350.00
18 (a)	Computer operator/ P.C. Operator/ Data supervisor.	Each day	760.00
18 (b)	Computer operator/ P.C. Operator/ Data supervisor.	Per month	19800.00
19	Security Guards for all places from Security Agency.		
	a. With Gun.	Per Month	10950.00
	b. With Ballum.	Per Month	8800.00
20 (a)	Hiring of diesel Vehicle below 2500 C.C. with driver and maintenance but excluding cost of fuel minimum @ 10.00 Km/litre.	Per Day	1260.00

S.No.	NAME OF ITEM	UNIT	RATE in (RS)
20 (b)	Hiring of diesel Vehicle below 2500 C.C. with driver and maintenance but excluding cost of fuel minimum @ 10.00 Km/litre with prior approval from	Per Month	29400.00
	(i) S.E. concerned for 01 month		
	(ii) CE concerned for 03 months.		
20 (c)	Hiring of diesel vehicle 2500 C.C. and above 2500 C.C. with driver & maintainance but excluding cost of fuel minimum @ 10.00 Km/litre.	Per day	1700.00
20 (d)	Hiring of diesel vehicle 2500 C.C. and above 2500 C.C. with driver & maintainance but excluding cost of fuel minimum @ 10.00 Km/litre. with prior approval from	Per Month	40000.00
	(i) S.E. concerned for 01 month		
	(ii) CE concerned for 03 months.		
21	Hiring 5 K.V.A. capacity generator with attendant including cost of maintenance but excluding cost of fuel	Per hour	80.00

Note: Labour rate will be enhance as given below :

- 1- 10% establishment charges shall be allowed to shramik mukhiya/contractor if labour is engaged through him. He shall have to provide facility to labourers as per relevant labour laws & T&P required for the work.
- 2- For item No.20(b) & 20(d) specific permission of concerned S.E./C.E. shall be necessary & relevant Govt. orders shall also be obeyed.
- 3- 10% contractor profit shall be allowed if labour is supplied by the contractor.
- 4- Skilled labour other than prescribed above, if engaged then minimum wage of skilled labour rate i.e. Rs. 430.00 per mandays shall be given.
- 5- G.S.T. charges shall be allowed as per relevant Govt. norms.
- 6- Upto 10% extra rate shall be allowed for closing of cutting branches of canal above 100 cusecs discharges the point of cutting.
- 7- Upto 10% extra rate shall be allowed within 10 Km. of Ramsari, Ghatampur, Rania, Auraiya, Dibiyapur, Pata and Jainpur industrial towns.
- 8- Upto 20% extra rate shall be allowed within Kanpur Municipal area limits.
- 9- Upto 8% Extra rate shall be allowed within 8 Km. of District Head Quarter.
- 10- Upto 25% extra rate shall be allowed for construction for pucca pump house being constructed near river bed for various item of work.
- 11- For item no. 14 (a & b) specific permission of concerned S.E. shall be necessary & relevant Govt. order shall also be obeyed.
- 12- Those items not taken in the irrigation SOR may be taken form the effective PWD SOR of the area Concern.
- 13- Per Day- means Eight Hours.
- 14- Rate of item No. 16 (b) Computer operator/ P.C. Operator/ Data supervisor, rate has been taken from per order no. 734 एम0/34/एम0-क0वृ0/19, दिनांक 02.02.2019 of Superintending Engineer, Kanpur Circle PWD, Kanpur

Chapter - 2
MATERIAL RATE

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
1	<u>BRICK</u>		
	(a) Class - M- 150		
	Kanpur Nagar (Except Municipal Limit)	Per 1000 Nos	7000.00
	Kanpur Nagar within Municipal Limit	Per 1000 Nos	7200.00
	(b) Class-100	Per 1000 Nos	6500.00
2	<u>BRICK BALLAST</u>		
	(a) Over burnt-brick ballast 40 mm gauge	Cum	As per
	(b) Class-150 brick ballast 25 mm gauge	Cum	Market
	(c) Brick - Bats of O.B.B./150 BB	Cum	Rate
3	<u>Stone Ballast/Grit (Kabrai Quarry)</u>		
(i)	अधीक्षण अभियन्ता, बाँदा वृत्त, लो०नि०वि०, बाँदा के कार्यालय ज्ञाप सं० 2254 / 7एम०-बाँ०वृ० / 18-19 दिनांक 26.04.2018 के अनुसार		
	(a) 45-90 mm Gauge Stone Ballast (Hand Broken) (Kabrai)	Cum	570.00
	(b) 45-63 mm Gauge Stone Ballast (Hand Broken) (Kabrai)	Cum	735.00
	© 40 mm Gauge Stone Ballast (Machine Broken) (Kabrai)	Cum	820.00
	(d) 45-63 mm Gauge Stone Ballast (Machine Broken) (Kabrai)	Cum	760.00
	(e) 22.4-53 mm Gauge Stone Ballast (Machine Broken) (Kabrai)	Cum	835.00
	(f) 20-40 mm Gauge Granite Grit (Machine Broken) (Kabrai)	Cum	820.00
	(g) 20 mm Gauge Granite Grit (Machine Broken) (Kabrai)	Cum	1340.00
	(h) 19 mm Gauge Granite Grit (Machine Broken) (Kabrai)	Cum	1340.00
	(i) 13.2 mm Gauge Granite Grit (Kabrai)	Cum	1070.00
	(j) 13 mm Gauge Granite Grit (Kabrai)	Cum	1030.00
	(k) 11.2 mm Gauge Granite Grit (Kabrai)	Cum	1030.00
	(l) 10 mm Gauge Granite Grit (Kabrai)	Cum	1030.00
	(m) 6.7 mm Gauge Granite Grit (Kabrai)	Cum	760.00
	(n) 2.36 mm down Cr. Stone Dust (Kabrai)	Cum	680.00
	(o) Screening Material Type&B (Kabrai)	Cum	740.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
(ii)	Stone Ballast/Grit (JAMALA Quarry)		
	अधीक्षण अभियन्ता, बाँदा वृत्त, लो०नि०वि०, बाँदा के कार्यालय ज्ञाप सं० 2254 / 7एम०-बाँ०वृ० / 18-19 दिनांक 26.04.2018 के अनुसार		
	(a) 45-63 mm Gauge Stone Ballast (Machine Broken) (Jamala)	Cum	765.00
	(b) 40 mm Gauge Stone Ballast (Machine Broken) (Jamala)	Cum	825.00
	(c) 22.4-53 mm Gauge Stone Ballast (Machine Broken) (Jamala)	Cum	840.00
	(d) 20-40 mm Gauge Granite Grit (Machine Broken) (Jamala)	Cum	825.00
	(e) 20 mm Gauge Granite Grit (Machine Broken) (Jamala)	Cum	1355.00
	(f) 19 mm Gauge Granite Grit ((Machine Broken) (Jamala)	Cum	1355.00
	(g) 13.2 mm Gauge Grainite Grit (Jamala)	Cum	1080.00
	(h) 13 mm Gauge Granite Grit (Jamala)	Cum	1040.00
	(i) 11.2 mm Gauge Granite Grit (Jamala)	Cum	1040.00
	(j) 10 mm Gauge Granite Grit (Jamala)	Cum	1040.00
	(k) 6.7 mm Gauge Granite Grit (Jamala)	Cum	760.00
	(l) 2.36 mm down Cr. Stone Dust (Jamala)	Cum	680.00
	(m) Screening Material Type-B(Jamala)	Cum	740.00
4	<u>Stone Boulder</u>		
	(a) Stone Boulder (Weight 25-60 Kg)	Cum	490.00
	(b) Stone Boulder (Weight 40-60 Kg)	Cum	540.00
5	<u>Coarse Sand</u>		
	a) Fine Sand FM more than 1.25	Cum	900.00
	b) Coarse Sand FM above 2.25	Cum	1500.00
	c) Local Sand	Cum	600.00
6	<u>Steel Bar for Reinforcement</u>	MT	As per Note No1
7	<u>Lime</u>		
	(a) Katni (For White Washing)	Quintal	800.00
	(b) Maihyer	Quintal	550.00
8	<u>Cement</u>		
	(a) Portland Cement (OPC)	Bag	350
	(b) Portland Cement (PPC)	Bag	320
	(c) White Cement ((JK or Birla Brand)	Bag (25 Kg)	720

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
13	<u>TOWER BOLT, DOOR, FITTINGS</u>		
	<u>(A) I.S.I marked Tower Bolt</u>		
	a) Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos.	580.00
	b) Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos.	481.00
	c) Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos.	383.00
	d) Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos.	304.00
	e) Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos.	226.00
	f) Oxidised mild steel tower bolt (barrel type) 250x10 mm	Each	43.00
	g) Oxidised mild steel tower bolt (barrel type) 200x10 mm	Each	34.00
	h) Oxidised mild steel tower bolt (barrel type) 150x10 mm	Each	29.00
	i) Oxidised mild steel tower bolt (barrel type) 100x10 mm	Each	20.00
	j) Brass tower bolt (barrel type) 250x10 mm	Each	257.00
	k) Brass tower bolt (barrel type) 200x10 mm	Each	205.00
	l) Brass tower bolt (barrel type) 150x10 mm	Each	154.00
	m) Brass tower bolt (barrel type) 100x10 mm	Each	103.00
	<u>(B) I.S.I. Marked Aluminium Sliding Bolt with nuts & bolts</u>		
	a) Anodised Aluminium sliding door bolt 300x16 mm	Each	147.00
	b) Anodised Aluminium sliding door bolt 250x16 mm	Each	128.00
	c) Oxidised mild steel sliding door bolt 300x16 mm	Each	90.00
	d) Oxidised mild steel sliding door bolt 250x16 mm	Each	80.00
	<u>(C) I.S.I marked Door Handle</u>		
	a) Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos.	324.00
	b) Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos.	275.00
	c) Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos.	231.00
	d) Oxidised mild steel handles 125 mm	Each	20.00
	e) Oxidised mild steel handles 100 mm	Each	15.00
	f) Oxidised mild steel handles 75 mm	Each	12.00
	g) Brass handles 125 mm with plate 175x32 mm	Each	144.00
	h) Brass handles 100 mm with plate 150x32 mm	Each	133.00
	i) Brass handles 75 mm with plate 125x32 mm	Each	103.00
14	<u>MSL. FITTINGS</u>		
	a) Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos.	125.00
	b) Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos.	90.00
	c) Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos.	65.00
	d) Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos.	55.00
	e) Anodised Aluminium butt hinges 125x75x4 mm	10 Nos.	560.00
	f) Anodised Aluminium butt hinges 125x63x4 mm	10 Nos.	393.00
	g) Anodised Aluminium butt hinges 100x75x4 mm	10 Nos.	393.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
	h) Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos.	270.00
	i) Anodised Aluminium butt hinges 100x63x4 mm	10 Nos.	324.00
	j) Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos.	775.00
	k) Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos.	625.00
	l) Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos.	380.00
	m) Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos.	155.00
	n) Oxidised mild steel screws 50 mm	100 Nos.	76.00
	o) Oxidised mild steel screws 40 mm	100 Nos.	62.00
	p) Oxidised mild steel screws 30 mm	100 Nos.	49.00
	q) Oxidised mild steel screws 25 mm	100 Nos.	36.00
	r) Oxidised mild steel screws 20 mm	100 Nos.	32.00
	s) Brass screws 50 mm	100 Nos.	220.00
	t) Brass screws 40 mm	100 Nos.	170.00
	u) Brass screws 30 mm	100 Nos.	140.00
	v) Brass screws 25 mm	100 Nos.	100.00
	w) Brass screws 20 mm	100 Nos.	95.00
	x) Bolts and nuts 16 mm dia 60 mm long	Each	11.50
	y) Bolts and nuts 16 mm dia 65 mm long	Each	13.00
	z) Bolts and nuts 20 mm dia 65 mm long	Each	15.00
	aa) Bolts and nuts 20 mm dia 70 mm long	Each	17.50
	bb) Bolts and nuts 20 mm dia 75 mm long	Each	17.00
	cc) Bolts and nuts 20 mm dia 80 mm long	Each	17.00
15	<u>PAINTS & DISTEMPERS</u>		
	a) Distemper (Oil) in paste of best quality	5 Kg	336.00
	b) Pigment	Kg	70.00
	c) Oil (Linseed double boiled)	Litre	200.00
	d) Oil (turpentine)	Litre	50.00
	e) Paint (Superior quality in 20 Lt. Drum)		
	e) Red Oxidized primer for steel (in 20 litre drum)	Litre	120.00
	f) (i) Paint enamel (synthetic)	Litre	175.00
	(ii) Paint Aluminium	Litre	150.00
	g) (i) Paint primer for wood(I.S.I. Marked)	Litre	105.00
	(ii) Paint primer for Metal (I.S.I. Marked)	Litre	105.00
	h) Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	Litre	50.00
	i) Water proofing cement paint	Kg	38.00
	j) Varnish		
	(i) Copall	Litre	115.00
	(ii) Ordinary	Litre	100.00
	k) Water proofing compound (Impermo, mec)	Kg	35.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
	l) Polish (Mansion and wax)	Kg	230.00
	m) Oil type wood preservative	Litre	130.00
	n) Thinner, Berger or Equivalent	Litre	120.00
	o) Melamine (Sealer), asian, berger	Litre	190.00
	p) Grade-1 Premium Exterior Emulsion paint silicon additives (apex, ultima, weather coat oil guard) asian, berger	Litre	270.00
	q) Exterior Emulsion Paint 100% Acrylic smooth (apex, weather coat)	Litre	200.00
	r) Premium Acrylic exterior paint (ace Acv walmasta) Asian, berger	Litre	210.00
	s) Tiles adhesive	Kg	9.00
	t) Water Proofing chemical (Dr. Fixet LW*)	Litre	100.00
	u) Water proofing chemical (Dr. Fixed URP)	Litre	230.00
	v) Snowcem	Kg	35.00
	w) Epoxy paint	Litre	215.00
16	<u>MESHES</u>		
	(i) Weided mesh (1) 1" x 2" size of 10 M.S gauge wire	Sqm	190.00
	(ii) 1" x 3" size of 10 M.S. wire	Sqm	135.00
	(iii) Murga jali 1/2 x 24 gauge	Sqm	45.00
	(iv) Welded mesh 2"x2" size of 10 M S gauge wire	Sqm	160.00
	(v) S.S. Mosquito Proof Jali	Sqm	310.00
17	<u>MISCELLANEOUS</u>		
	1. 4 mm thick ACP	Sqm	1100.00
	2. Washer (Bitumen)	100 Nos	30.00
	3. Washer GI	100 Nos	21.00
	4. Spun Yarn	Kg	55.00
	5. Nails (wire)- Galvanized	Kg	58.00
	6. Tar felt	Sqm	75.00
	7. Plaster of Paris	Kg	5.00
	8. Interlocking C.C. paver block (80 mm thick, M-30)	sqm	485.00
	9. White cement based putty	Kg	13.00
	10. Putty for wood work	Kg	28.00
	11. Binding Wire	Kg	46.00
	12. Galvanised steel corrugated sheets	quintal	6000.00
	13. Stainless steel SS grade 304 , curtain rod 20 mm dia 1.20mm thick	RM	125.00
	14. Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick	RM	170.00
	15. Stainless steel SS grade 304, brackets (curtain rod) 20 mm dia 1.20mm thick	Each	46.00
	16. Stainless steel SS grade 304, brackets (curtain rod) 25 mm dia 1.20mm thick	Each	55.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
	17. Fevicol SR	Kg	290.00
	18. Galvanised steel plain sheets	quintal	5000.00
	19. M-Seal 100 gm.	Pkt	33.00
	20. White china glazed low level cistern's 10 lit capacity with all internal fitting of P.V.C. (Parry ware, hindware nycer etc.	Each	2000.00
	21. P.V.C. Low level cistern's 10 Lit capacity with all internal fitting perryware, cera, hindware, jaguar dip last. Etc.	Each	950.00
	22. Internal fittings for china low level cistern's (Brass)	Set	470.00
	23. Internal fitting for P.V.C. low level cistern's	Set	278.00
	24. Anti termite treatment oil	Litre	460.00
	25. Bleaching powder	Kg	40.00
	26. White glazed china pedestal for wash basin	Each	873.00
	27. China white glazed automatic flusing cistern's	Each	1010.00
	28. P.V.C Pipe 160 mm dia I.S.I. make	RM	490.00
	29. P.V.C. Pipe 110 mm dia I.S.I. make	RM	240.00
	30. P.V.C. Pipe 90 mm dia	RM	175.00
	31. P.V.C. Pipe 75 mm dia	RM	125.00
	32. P.V.C. Pipe 50 mm dia	RM	55.00
	33. P.V.C. Bend 100 mm dia	Each	60.00
	34. P.V.C. Bend 75 mm dia	Each	57.00
	35. P.V.C. Bend 50 mm dia	Each	46.00
	36. P.V.C. Socket 100 mm dia	Each	28.00
	37. P.V.C. Socket 75 mm dia	Each	29.00
	38. P.V.C. Socket 50 mm dia	Each	25.00
	39. P.V.C. Pipe's jointing solution (Tube)	Each	360.00
	40. 15 mm outer dia CPVC Pipe	RM	100.00
	41. 20 mm outer dia CPVC Pipe	RM	120.00
	42. 25 mm outer dia CPVC Pipe	RM	130.00
	43. 32 mm outer dia CPVC Pipe	RM	140.00
	44. 40 mm outer dia CPVC Pipe	RM	180.00
	45. Steel sink 600 x 450 x 200 mm (Eagle make)		
	a) With out Drainage board	Each	2700.00
	b) With Drainage board	Each	3800.00
	46. C.I. bracket for wash basin and sinks	Pair	88.00
	47. Mirror of superior make glass 60x45 cm	Each	450.00
	48. 15 mm C.P. brass tap	Each	270.00
	49. Vitreous china lipped front urinal	Each	470.00
	50. Vitreous china squatting plate urinal	Each	1053.00
	51. Vitreous china flat back wash basin 630x450 mm	Each	725.00
	52. Vitreous china angle back wash basin 600x480 mm	Each	725.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
	53. Vitreous china angle back wash basin 400x400 mm	Each	425.00
	54. C.P. brass waste 32 mm dia	Each	85.00
	55. C.P. brass waste 40 mm dia	Each	100.00
	56. Vitreous china orrisa type W.C. pan of size 580 mm	Each	1290.00
	57. C.P. Brass union 40mm dia	Each	210.00
	58. Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 250 mm	Each	3000.00
	59. Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	Each	3500.00
	60. Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	Each	290.00
	61. Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	Each	670.00
	62. Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	Each	575.00
	63. P.V.C. automatic flushing cistern 5 litre capacity	Each	450.00
	64. P.V.C. automatic flushing cistern 10 litre capacity	Each	500.00
	65. PTMT - Towel Ring 215x200x37 mm	Each	110.00
	66. PTMT - Towel Rail (450 mm long)	Each	125.00
	67. PTMT - Towel Rail (600 mm long)	Each	145.00
	68. G.I. pipes 15 mm dia	Each	95.00
	69. G.I. pipes 20 mm dia	Each	130.00
	70. G.I. pipes 25 mm dia	Each	196.00
	71. G.I. pipes 32 mm dia	Each	225.00
	72. G.I. pipes 40 mm dia	Each	290.00
	73. Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	Each	125.00
	74. C.I. sluice valve (with caps) class I: 100 mm dia	Each	2450.00
	75. C.I. sluice valve (with caps) class I : 125 mm dia	Each	2610.00
	76. C.I. sluice valve (with caps) class I: 150 mm dia	Each	3650.00
	77. C.I. sluice valve (with caps) class I : 200 mm dia	Each	7600.00
	78. C.I. sluice valve (with caps) class I : 250 mm dia	Each	10980.00

Sl.No.	MATERIAL	UNIT	RATE in (Rs)
1	2	4	5
	79. C.I. sluice valve (with caps) class I: 300 mm dia	Each	15500.00
	80. Supplying chemical emulsion in sealed containers including delivery as Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	200.90

Note:- At the time of Framing of estimate concern EE"s should be take the following note :-

- 1 At the time of framing of estimate steel rates should be taken from SAIL.
- 2 Material rates should be taken from the nearest quarry/dump in respective Districts.
- 3 In the Item no. 1 & 2 royalty, loading, unloading, stacking are included.
- 4 The above rates are exclusive of GST. Hence GST shall be paid extra as per prevailing Government Orders.
- 5 In the Item no. 1, & 2 royalty, loading, unloading, stacking are included. Contractor profit shall be paid extra for item no. 1 if supplier is not owner of kiln/construction agency. In the Item no. 6 & 9 royalty, loading, unloading, stacking are included.
- 6 From Item no. 10 & 45 royalty, loading, unloading, stacking are included.
- 7 Above rates are for approved ISI/ISO approved material.
- 8 5% Contractor profit shall be allowed are market price of construction materials if arranged
- 9 In item no. 1 & 2 including royalty and excluding loading, unloading. Carriage of 1st Km. will be considered as a unmetalled road.
- 10 Wastage of Materials allowed as given below:

Sand	2.50%
Grit	2.00%
Ballast	2.00%
Shingle	2.00%
P.Gravel	2.00%

- 11 In supply 10% voids shall be deducted from the stack measurement of stone boulder, solling, moorum and ballast above 40 mm. No deduction of void shall be made in supply of Where measurements of any item excavated can not be determined by X-sections the solids, on initial volume of the material shall be worked out by deduction of voids from the stack measurements as follows:
 - (i) Moorom-20% of stack measurement.
 - (ii) shale,soft rock hard rock-40%of stack measurement.

The above rates are exclusive of GST. Hence GST shall be paid extra as per prevailing Government Orders.

Chapter - 3

Carriage of Materials

Schedule of carriage rates on metalled road (Tarred or concrete road) and other type on road including loading and unloading at both ends and Stacking.

Item No. A- By Power Transport (Truck) :-

Carriage of materials on metalled roads including loading, unloading and stacking of 333 Nos. of bricks, 20 Nos of cement bags of 50 Kg. each, 0.64 cum of sand or earth, 0.94 cum of Kankar brick Rora or ballast, 0.71 cum of stone boulder or stone ballast or single, 0.71 cum of block Kankar, 0.48 cum of Haryana split stone, 0.85 cum of lime or Surkhi, 1.00 M.T. of steel or coil etc. shall be taken to form 1 M.T. of load.

Carriage in Kilometers	Rate in Rs
Upto 1 Km	132
2Km	147
3Km.	162
4 KM.	177
5Km.	192
6Km.	199
7Km.	206
8Km.	213
9Km.	220
10Km.	227
11Km.	234
12Km.	241
13Km.	248
14Km.	255
15Km.	262
16Km.	269
17Km.	276
18Km.	283
19Km.	290
20Km.	297
21Km.	304
22Km.	311
23Km..	318
24Km.	325
25Km	332
26KM.	339
27KM.	346
28Km.	353
29Km.	360
30Km.	367
31Km.	373
32Km	379
33Km.	385
34Km.	391

Carriage in Kilometers	Rate in Rs
35Km.	397
36Km.	403
37Km.	409
38Km.	415
39Km.	421
40Km.	427
Beyond 40 Km. extra for every Km. up to 300 Km. @	@ 6.00/Km.
Beyond 300 Km. @	@ 4.50/Km.

Item No. B- by tractor trolley / bullock cart

Carriage of Materials by bullock cart or Tractor with trolley per M.T.

S.No.	Distance in Km.	Unit	Rates in Rs.
1	1st Km.	Per MT.	150.00/Km
2	2.00 to 10.00 Km.	Per MT.	13.00/km
3	11.00 TO 20.00 Km.	Per MT.	10.10/km

Note : Rates shall be given where trucks can not Reach.

Item No. C- Cartage of Bitumen/ Emulsion		Unit	Rate in Rs.
1	Cartage of Tar, Bitumen, Asphalt, Mobile oil, Emulsion or other Such Materials	Per MT/ Km	2.09

Item No. D- by head load

Carriage of construction material by head load where road does not exist (including the initial lead 60 m.) per MT.

- | | | | |
|-----|--|-----|-----------|
| (a) | Extra for 60m to 200m | Rs. | 54.00/MT. |
| (b) | Extra over 200m upto 800m for every 100m | Rs. | 18.00/MT. |

Note :

- The above rates given under item No.2(a) are for tarred or concrete road, in plains the rates shall be increased for other type of roads by the following :
 - Unmetalled road other than tarred or concrete road including graded kankar or unmetalled canal road. 15%
 - Kuccha roads unmetalled hill roads or river bed. 33%
- The additional rate for above as per note-1 will be worked out on average rate including loading and stacking for total journey, for the specified category of road.
- For Material received through RR at Railway station additional lump sum amount of Rs. 21.00 per 100 bags (5 M.T.) of cement or 5 M.T. of steel shall be allowed.

- 4 Where transport unions exist and they have a published carriage schedule the carriage shall be calculated on that schedule 10% contractor's overhead charges including contractor's profit may be allowed extra.
- 5 For carriage of cement and steel from Factories / Railways yards/dumps and stock yard the rate shall be increased by 50% and 80% respectively above the normal rates for 1st Km.
- 6 The rates for carriage of material given in the chapter are inclusive of cost for empty haulage or carrier journey. If the contractor is engaged for return journey than rates shall be reduced by 33%
- 7 For carriage of over hanging steel material which can't be bent or allowed to be cut (25mm and above dia bars M.S. plate more than 1.8m width, structural steel sheet piles etc.) all the above rates shall be reduced by 33%
 - (a) Above 6.0m upto 50%
 - (b) Above 10.00m in 100%

Item No. E-

Carriage of C.C. spun pipes 300 mm dia in length of about 2.5 meter

S.No.	Distance in Km.	Unit	Rates in Rs.	
1	up to 5 km. (Total)	Per R.M./Km.	Rs.	14.00
2	From 6 km to 10 km	Per R.M./Km.	Rs.	1.10
3	From 11 km to 20 km	Per R.M./Km.	Rs.	1.10
4	From 21 km to 30 kms	Per R.M./Km.	Rs.	0.80
5	From 31 kms to 50 km	Per R.M./Km.	Rs.	0.70
6	From 51 km to 100 km	Per R.M./Km.	Rs.	0.55
7	Beyond 100 km	Per R.M./Km.	Rs.	0.45

Item No. F-

Carriage of R.C.C. Pipe 300 MM dia in length of about 2.5 meter including loading, unloading and stacking.

S.No.	Distance in Km.	Unit	Rates in Rs.	
1	up to 5 km. (Total)	Per R.M./Km.	Rs.	10.00
2	From 6 km to 10 km	Per R.M./Km.	Rs.	0.90
3	From 11 kms to 20 kms	Per R.M./Km.	Rs.	0.80
4	From 21 ks to 30 km	Per R.M./Km.	Rs.	0.80
5	From 31 kms to 50 kms	Per R.M./Km.	Rs.	0.70
6	From 51 km to 100 km	Per R.M./Km.	Rs.	0.60
7	Beyond 100 km	Per R.M./Km.	Rs.	0.60

Note:

- i- For carriage of C.C. spun pipes breakage if any shall be recovered from the contractor at single stock issue rate breakage up to 6% for any breakage above 6% recovery from the excess breakages shall be made at double the stock issue rate. No payment for carriage shall be made for broken pipe.
- ii- For pipe having diameter other than 300 mm. the carriage shall be proportional to their cross sectional area with respect in the cross section area of 300 mm dia pipe.

Item No. G -

Carriage of R.C.C. pipe 300 mm dia. in length of about 2.5 meter including loading, unloading and stacking.

i)	Beyond 60 m upto 200 m for every 50 m. or part thereof	per m	Rs.	0.55
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Item No. H-

Carriage of P.V.C. Pipe (160/200mm dia) including loading, unloding AMD Stacking.

S.No.	Distance in Km.	Unit	Rates	
(a)	1Km.	Mtr./Km.	Rs.	1.40
(b)	2 to 5th Km.	Mtr./Km.	Rs.	0.40
(c.)	6th to 10th Km.	Mtr./Km.	Rs.	0.35
(d)	11th to 20th	Mtr./Km.	Rs.	0.30
(e)	21th to 30th	Mtr./Km.	Rs.	0.25
(f)	31st to 100th	Mtr./Km.	Rs.	0.13
(g)	101 to above Km.	Mtr./Km.	Rs.	0.13

Note:

- i The above carriage rates are for tarred or concrete road. The rates shall be increased for other type of road by following percentage.
- ii Rough metal gravel Kankar, canal service road or forest 15%
- iii Other Kachcha road. 30%

Item No. I- Carriage of Steel Pipe**(i) For 150 mm to 200 mm dia and length of more than 8 meters**

Sl. No.	Distance (Km.)	Units	Rates in Rs.
1	Unloading from Railway wagon at Railway siding	MT	175.00
2	Loading from cart / the carriage to store unloading and stacking in store for carriage up to a distance 5 Km.	MT	132.00
3	Extra for each kms or part there of upto a 8 kms. Distance beyond initial 5 km.	MT	18.00
4	Physical verification of stacked steel including restacking with in the same yard.		
	(a) By weightment (bars, barbed wire, G.C. sheet etc.)	MT	37.00
	(b) By mesaurement (M.S.B as above 200 mm dia M.S. plates, other structural steel)	MT	21.00

(ii) For 250 mm dia and above in random length of more than 7 meters

Sl. No.	Distance (Km.)	Units	Rates in Rs.
1	Unloading from Railway wagon at Railway siding	MT	240.00
2	Loading into cart/ the carriage to store unloading and stacking in store for carriage up to a distance 5 km	MT	220.00
3	Extra for each kms or part there of up to 8 kms distance beyond initial 5 km	MT	18.00

(iii) Carriage of Steel Pipe for length up to 7 m. including handling loading and stacking site

S.No.	Distance (Km.)	Unit (Metere)	150	200	300	350
1	1	Meteres	3.30	3.90	5.75	7.15
2	2	Metere	4.50	5.20	8.35	9.10
3	3	Metere	5.10	5.50	9.50	10.10
4	4	Metere	5.50	5.80	10.80	12.10
5	5	Metere	6.15	6.80	13.50	14.40
6	6	Metere	6.85	7.70	13.60	15.65
7	7	Metere	7.50	8.25	13.70	16.70
8	8	Metere	7.90	3.90	16.60	17.70
9	9	Metere	7.90	9.00	18.15	18.40
10	10	Metere	7.90	9.00	18.15	18.70
11	Beyond 10 Km.	Metere	0.50	0.65	1.15	1.30
12	Beyond 161 Km.	Metere	0.40	0.45	1.75	0.90

Chapter - 4
LOADING, UNLOADING, STACKING AND COLLECTION OF
MATERIAL

Sl.No.	Name of Item	Unit	Approved Rate (in Rs)
1	2	3	4
1	Collection of materials from river bed excluding royalty and taxes but including screening and stacking.		
(i)	Collection of ordinary sand.	Cum	123.00
(ii)	Collection of boulder 20 to 40 kg. wt. (size of boulder minimum 15 cm.)	Cum	74.00
(iii)	Collection of boulder 40 to 70 kg. wt. (size of boulder minimum 23 cm.)	Cum	130.00
(iv)	Breaking Stone ballast (Excluding cost of stone).		
	(a) 6 mm to 20 mm	Cum	427.00
	(b) 20 mm to 40 mm	Cum	277.00
	(c) 40 mm to 80 mm	Cum	154.00
2	Unloading of material from Railway wagon including stacking at Platform, loading into truck and unloading at store including carriage upto 1 Km.	MT	191.00
3	Loading of material into truck.	MT	50.00
4	Re-stacking of Cement.	MT	56.00
5	Re-stacking of material other than cement.	MT	52.00
6	Loading or unloading of heavy articles like joist etc. machinery and heavy structure.	MT	87.00
7	Unloading of material from truck.	MT	31.00
8	Stacking of Material.	MT	29.00
9	Stacking of Ballast/Bajri/Sand/Grit	Cum	48.00
10	Stacking of Bajri/Grit/Sand including making all arrangement for water and T&P etc. for washing.	Cum	56.00

Chapter - 5
EARTH WORK

Sl.No.	Name of Item	Unit	Rate	
1	2	3	4	
1	Earth work in foundation in dry ordinary soil (Loam, clay or sand) including lift upto 1.50 m. and lead upto 30 m. and including filling, watering and ramming of excavated earth into the trenches or into the space between the structure and the sides of foundation trenches or into the plinth with removal and disposal of surplus earth as directed by the Engineer - in - charge upto a distance of 30 m. from the foundation trenches.			
(a)	Building	cum	Rs.	84.00
(b)	Other structure (Canal VRB, DRB, PRB and other hydraulic structures)	cum	Rs.	90.00
2	Earth work in cutting or in embankment in ordinary soil, excavation to be in the form of irregular pits and earth work in embankment to be in 20 cm. layers, including ramming and dressing the surface to the required level and slopes and also including 1.5 m. lift and 30 m. lead: The earth form cutting to be used in making embankment or to be deposited as spoil bank within 30 m. distance as directed by the Engineer-in-charge.			
(a)	In main canals and Branches upto 30 cumecs.	Cum	Rs.	72.00
(b)	In distributaries and minors with service road.	Cum	Rs.	67.00
(c)	In distributaries and minors without service road.	Cum	Rs.	63.00
(d)	In escapes above 1000 cusec	Cum	Rs.	72.00
(e)	In escapes less than 1000 cusec	Cum	Rs.	63.00
(f)	In drains without service road.	Cum	Rs.	60.00
(g)	In gulls.	Cum	Rs.	50.00
3	Eath work in afflux bund, guide bund and tatbund above 1.5 m. hight including removal of 20cm. Humus from bund seat and 15 cm. from borrow areas and trenching in bund seat including lead upto 30 m. and lift upto 1.5 m. and including dressing making profiles and manual compation but excluding mechanical compaction.	Cum	Rs.	68.00

Sl.No.	Name of Item	Unit	Rate	
1	2	3	4	
(a)	Main canal & Branches.	Cum	Rs.	67.00
(b)	Dys.& Minors.	Cum	Rs.	63.00
(c)	Drains.	Cum	Rs.	55.00
(d)	Silt Clearance of lined gul of State Tube wells.	Km.	Rs.	1150.00
4 (ii)	By hydraulic excavator/JCB/Poclain Machine.	Cum	Rs.	47.00
5	Excavation/Digging kankar soil with stacking, lead and lift as in item no.2	Cum	Rs.	134.00
6	Extra for			
(a)	Extra for Lead beyond 30 m. and upto a toatal lead of 200 m. for every 15 m. lead or part there of	Cum	Rs.	8.00
(b)	Extra for lead beyond 200 m. upto a total lead of 600 m. for every 100 m.lead or part thereof	Cum	Rs.	10.00
(C)	Extra for lift above 1.50 m. for every 0.30 m. lift or part thereof ,	Cum	Rs.	4.00
(d)	Extra for Mar. kabar and kankar soil.	Cum	Rs.	13.00
(e)	Extra for hard soil and soil mixed with kankar.			
	(i) 5-15%	Cum	Rs.	12.00
	(ii) 15-50%	Cum	Rs.	13.00
	(iii) above 50%	Cum	Rs.	19.00
(f)	Extra for Mechanical Compaction in Construction of embankment, tatbaund, afflux bund, guide bund above 1.5 m. height for achieving 95% or above of M.D.D. from mechanical compaction. Rate of manual Compaction will be deducted from basic earth work	Cum	Rs.	49.00
(g)	Extra for wet earth work excluding dewatering.			
	(a). Under water	Cum	Rs.	13.00
	(b). Without water	Cum	Rs.	10.00
(h)	Extra for daula dressing.	Km.	Rs.	722.00
7	Levelling and dressing service road including earth work for petty repairs.			
(a)	Main canal & Branches	M/Km.	Rs.	1544.00
(b)	For distributaries and minors.	M/Km.	Rs.	1287.00
8	Dagbelling 7.50 cm. deep.	Km.	Rs.	339.00
9	Dagbelling 15.00 cm. deep.	Km.	Rs.	356.00
10	Scraping internal section of existing channel i.e. Bed Slope with silt upto 10 cm.	M/Km.	Rs.	3218.00
11	Jungle clearence of main canal and branches with Bed, Slope and service road.	M/Km.	Rs.	1957.00
12	Jungle clearence of Dys and minors with Bed, Slope and service road.	M/Km.	Rs.	1398.00
13	Jungle clearence of Dys and minors with Bed, Slope and without service road.	M/Km.	Rs.	691.00

Sl.No.	Name of Item	Unit	Rate	
1	2	3	4	
15	Removing and uprooting jalkumbhi, Patara from the bed of canal and its disposal as per direction of Engineer-in-charge.	Sqm	Rs.	5.00
16	Uprooting sarpat Moonj and Jhunds from canals bank including its disposal.	Sqm	Rs.	25.00
17	Jungle clearance of tube well / I.H. /Office / Compound.	Sqm	Rs.	4.50
18	Deduction for stacking for transported earth.	cum	Rs.	29.00
19	For Earth work borrowed from private land not aquired and extra rate of on account for cost of earth.	cum	Rs.	19.00
20	Dressing of excavated earth/silt	cum	Rs.	10.00
21	a) Transportation charge of JCB upto site and Back	Job	Rs.	5000.00
	b) Transportation charge of Poclain upto site and Back	Job	Rs.	10000.00
22	Earth work in embankment by power transported earth with a lead beyond 200m. and upto 1.00 Km. including excavation, loading, unloading, manual compaction, dressing and all lifts complete excluding royalty will be applicabe from time to time on Govt. orders	cum		180.00

Note :

- 1** The rates include upto 30 m. lead and 1.5 m. lifts with dressing and manual Compaction.
- 2** Earth work in repair should be measured at borrow pits and in embankments by section area of finished work.
- 3** The classification of channel in terms of discharge shall be as follows:
 - (i) Main canal and branches - above 6 cumecs
 - (ii) Distributaries - 0.6 to 6 cumecs
 - (iii) Minors - below 0.6 cumecs
- 4** Extra rate shall be given on channels above 30 cumecs of discharge at the following rate-
 - (i) From 30 cumecs to 100 cumecs.....5%
 - (ii) above 100 cumecs.....10%
- 5** Earth borrowed beyond lead of 200 m. shall be treated as transported earth.
- 6** In case of section measurement of embankments constructed with manual compaction following settlement allowance shall be deduct as below.
 - (i) 10% allowances shall be deduct from gross quantity of earth measured in section within one month from the date of completion.
 - (ii) 5% settelment allowances shall be deducted from gross quantity of earth measured in section, if one rainy season (1st july to 15th Oct.) has passed after the date of completion.
 - (iii) 2.5% allowance shall be deducted from gross quantity of earth measured section if two rainy sesons have passed after date of completion.
- 7** 2% settelment allowances shall be deduct on embankment compacted mechanically upto 95% or above (MDD).
- 8** Earth work in Clearence of canals under MGNREGA works shall be taken as per guide lines circulated by Government of India time to time.
- 9** GST shall be paid extra after deducting all the State/Central Taxes.

Chapter - 6
DISMANTLING MASONARY , CONCRETE AND OTHER ITEMS
(INCLUDING STACKING WITH IN 30M)

Sl. No.	Name of Item	Unit	Rate in (Rs.)
1	2	3	4
1	Dismantling brick work or stone work and cement concrete in cement mortar and including stacking of material with in a distance of 60M as per direction of Engineer-in-charge .	M ³	600.00
2	Dismantling reinforced cement concrete 1:2:4 including stacking of dismantled material with in 60m distance.	M ³	900.00
3	Dismantling C.C. or brick or granolithic floor including base concrete and including stacking of dismantled material with in 60m distance	M ²	65.00
4	Same as in Item No. 3 but floor to be stone flagged or tiled floor.	M ²	80.00
5	Dismantling door and window chauhant with hold fast including stacking material with in 60 m.	M ²	75.00
6	Dismantling door and window leaves including stacking material with in 60 m.	M ²	33.00
7	Dismantling existing plaster including disposal of refuse with in distance of 60 m.	M ²	42.00
8	Racking our joints of brick work in cement or lime to a depth of 1 m. (3/8) including disposal of refuse with in 60 m.	M ²	26.00
9	Scraping old white or colour wash including disposal of refuse with in 60 m.	M ²	9.00
10	Dismantling brick or stone pitching	M ³	85.00

Chapter - 7
CONCRETE (R.C.C. and C.C.) WORKS

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Plain cement concrete with stone blallast brick ballast excluding cost of material but inclusive of labour and T&P.		
(a)	manual mixing	Cum	615.00
(b)	mechanical mixing	Cum	735.00
2	Plain cement concrete as per item 1 with 20% plum with stone ballast excluding cost of material but including of labour and T&P.	Cum	264.00
3	Cement concrete with stone ballast brick ballast in RCC work excluding cost of material but inclusive of labour and T&P and also excluding centering shuttering and reinforcement.		
(a)	manual mixing	Cum	1300.00
(b)	mechanical mixing	Cum	1450.00
4	Centering and shuttering of CC work including rent of shuttering material, labour and T&P required for proper completion of work for slab, lintels, sun shads, columm & walls etc.	Sqm	558.00
5 (a)	Centering & shuttering for RCC/RB work including cost of centering & shuttering up to 3.0 m. height.	Sqm	700.00
(b)	Shuttering for RCC work - for bridge slabs upto 3 span	Sqm	761.00
(c)	Shuttering for RCC work - for bridge slabs above 3 span	Sqm	860.00
(d)	Shuttering for RCC work - T-beam bridge, syphon, aqueduct and box culvert above 3 m. span	Sqm	1129.00
6	Shuttering for CC Block and concrete including cost of shuttering	Sqm	558.00
7	Extra for Mechanical mixing	Cum	122.00
8	Extra for Mechanical vibration	Cum	84.00
9	Extra for mechanical mixing with batching plant	Cum.	598.00
10	20 mm thick DPC with cement and coarse and 1:2 including water proofing material in the proportion as specified by the manufacturers excluding cost of all material labour and T&P complete.	Sqm	56.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
11	25 mm thick DPC with cement and coarse and 1:2 including water proofing material in the proportion as specified by the manufacturers excluding cost of all material labour and T&P complete.	Sqm	56.00
12	cement concrete flooring upto 40 mm thick without base concrete excluding cost of all Materials but including labour, T&P etc.	Sqm	86.00
13	Laying 75 mm thick base concrete for flooring excluding cost of all Materials but including labour, T&P etc.	Sqm	153.00
14	Laying 100 mm thick base concrete for flooring	Sqm	196.00
15	Laying 30 mm thick base concrete including Grinding and polishing mosaic floor.	Sqm	313.00
16	(a) Extra for every lead of 30 m. or part there of beyond initial lead of 60 m.	Each	50.00
16	(b) Extra for every lead of 1.5 m. or part there of beyond initial lead of 3 m.	Each	100.00
17	Laying lime concrete over roof average thickness 100 m. laid to fall with 25 mm nominal size brick ballast and 50% lime mortar 1:2 (one lime : 2 Surkhi) rammed and finished with gur and belgiri Treatment complete, including rounding of junctions parapet wall excluding cost of material.	Cum	553.00
18	Bending, binding, cutting and placing of reinforcement including cost of binding wire but excluding cost of steel.	M.T.	15664.00
19	Extra for additional height in centering shuttering where ever required with adequate bracing, propping etc. including cost of decentring and de-shuttering all levels over a height of 3.0 m. for every additional height of 1.0 m or part thereof (plan area to be measured) for suspended floors, roofs, landing, beams and balconies.	Sqm	135.00
20	Mixing of cement concrete by batching plant and placing by concrete pumps, boom placer etc. or by any other mechanical mean/ equipments better than the concrete pump.	Cum	1500.00
21	Transportation of Transit mixer	Per Km	200

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
22	Providing and injecting chemical for pre-constructional anti-termite treatment and creating and chemical barrier under and around the colour pits wall trenches basement excavation top surface if plinth filling junction of wall and floor, along the external per meter of binding expansion joints surrounding of pipes and conduit etc. complete (plinth area of the building at ground floor only shall be measured as per I.S 6313(part 111981) Aldrine emulsifiable concentrate or any other approved material such as Hephachlor of Chlordane will be used. The rate of application of chemical emulsion shall be as follows.		
	(1) Treatment for masonry and foundation 5 liters per Sq.M.		
	(2) Back fill in immediate contact with foundation 7.5 liters per Sq.M		
	(3) Treatment of top surface of plinth filling 5 liters per Sq.M	Sqm	120.00
	(4) Treatment of soil along external per meter of Building 7.50 liters per Sq M		
	(5) Treatment of soil under apron along external per meter 5 liters		
23	Providing & injecting chemical for post Constructional anti termite treatment with drilling holes at junction of floor with walls & pillars, the application of chemicals shall be as per relevant 15 code and the rate of application of chemical shall also be as provided in the IS Code, including quarterly inspection and providing required treatment for one year. As per direction of E/I	Sqm	90.00

NOTE:

1. All above rates include sundries T&P. Water Charges C.P. etc. & exclusive of GST

2. Rates of Item No. 22 and 23 has been taken from SOR 2020 PWD Kanpur and is exclusive of GST.

Chapter - 8
BRICK MASONARY WORK

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Brick work in mud mortar up to 3M lift and 60M lead of materials.	Cum	713.00
2	Brick work in 1:3 cement mortar upto 3M lift and 60M lead of material.	Cum	1007.00
3	Brick work in 1:4 cement mortar upto 3M lift and 60M lead of material.	Cum	1007.00
4	Brick work in 1:5 cement mortar upto 3M lift and 60M lead of material.	Cum	1007.00
5	Brick work in 1:6 cement mortar upto 3M lift and 60M lead of material.	Cum	1007.00
6	Brick work in kankar lime mortar up to 3M lift and 60M lead.	Cum	1007.00
7	Brick work in white lime and surkhi 1:2 up to 3M lift and 60M lead.	Cum	1007.00
8	Brick work in white lime and surkhi 1:3 up to 3M lift and 60M lead.	Cum	1007.00
9	Extra for brick work of half brick thick wall.	Cum	308.00
10	Extra for brick work of half 3" thick wall.	Cum	541.00
11	1st class brick work in arches in 1:3 cement mortar.	Cum	1205.00
12	Extra for cutting of bricks required for cornices, kerbs of parapet and rubbed finish.	Cum	80.00
13	Extra for lift above 3M height for every 1.5M and part their of including scaffolding.	Cum	99.00
14	Reinforced brick work including reinforcement and centering and shuttering but including curing.	Cum	1007.00

Chapter - 9
STONE MASONRY WORK

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Random Rubble masonry with hard stone in foundation and plinth in sand mortar including labour and T&P etc. upto 60 m. lead	Cum	1147.00
2	As in item No. (1) but in cement mortar 1:4 (1 cement: 4 fine sand)	Cum	1147.00
3	As in item No. (1) but in super structure including lift upto 3m.	Cum	1309.00
4	As in item No. (3) but in cement mortar 1:4 (1 cement: 4 fine sand)	Cum	1309.00
5	Coarse rubble masonry with hard stone in foundation and plinth in lime mortar including labour and T&P upto 60 m. lead.	Cum	1300.00
6	As in item No. (5) but in cement mortar 1:3 (1 cement: 3 fine sand)	Cum	1300.00
7	As in item No. (6) but in super structure including lift upto 3 m.	Cum	1516.00
8	Random coarse rubble stone masonry (Khanda stone) with cement mortar 1:4 (1 cement: 4 fine sand) in foundation and plinth includind labour and T&P etc. up to 60 m.	Cum	1147.00
9	As in item No. (8) but in super structure including lift upto 3 m.	Cum	1332.00
10	(a) Dry stone pitching hand packed including labour and T&P	Cum	345.00
	(b) Relaying boulder pitching.	Cum	393.00
11	Extra for lift above lead beyond 60 m. for every lead of 30 m. or part there of.	Cum	22.00
12	(a) Extra for lift above 3 m. height for every 1.5 m. or part there of including scaffolding.	Cum	55.00
	(b) Extra for down lift after initial 3 m. height for every 1.5 m. or part there of including scaffolding.	Cum	19.00
13	Chiseling granite stone.	Cum	1725.00
14	Granite stone masonry.	Cum	1923.00
15	Dismantling granite stone.	Cum	678.00
16	Cutting granite stone.	Cum	537.00
17	Laying graded filter in layers.	Cum	115.00
18	Dry flat brick pitching in sand including preparation of sub and filling joints with local sand including cost of sand.	Sqm	135.00
19	Dry bricks on edge pitching in sand including preparation of sub grade and joints with local sand including cost of sand.	Sqm	200.00

Chapter - 10

PLASTERING AND POINTING

Sl. No.	Name of Item	Unit	Rate in (Rs)
1	2	3	4
1	12 mm cement plaster of mix (in fine sand)		
	a) 1:4 (1 cement: 4 fine sand)	sqm	294.85
	b) 1:6 (1 cement: 6 fine sand)	sqm	282.00
2	15 mm cement plaster on the rough side of single or half brick wall of mix (in fine sand)		
	a) 1:4 (1 cement: 4 fine sand)	sqm	339.70
	b) 1:6 (1 cement: 6 fine sand)	sqm	324.30
3	20 mm cement plaster of mix (in fine sand)		
	a) 1:4 (1 cement: 4 fine sand)	sqm	402.15
	b) 1:6 (1 cement: 6 fine sand)	sqm	382.10
4	12 mm cement plaster of mix (in coarse sand)		
	a) 1:4 (1 cement: 4 coarse sand)	sqm	307.25
	b) 1:6 (1 cement: 6 coarse sand)	sqm	294.35
5	15 mm cement plaster on the rough side of single or half brick wall of mix (in coarse sand)		
	a) 1:4 (1 cement: 4 coarse sand)	sqm	354.50
	b) 1:6 (1 cement: 6 coarse sand)	sqm	339.10
6	20 mm cement plaster of mix (in coarse sand)		
	a) 1:4 (1 cement: 4 coarse sand)	sqm	421.40
	b) 1:6 (1 cement: 6 coarse sand)	sqm	401.35
7	6 mm cement plaster		
	a) 1:3 (1 cement : 3 fine sand)	sqm	253.05
	b) 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	sqm	334.20
	c) Neat cement punning.	sqm	67.80
8	Extra for cement plaster of ceiling or roof.	Sqm	15.00
9	Providing and applying plaster of paris putty of 2 mm thickness overplastered surface to prepare the surface even and smooth complete.	sqm	214.30
10	Pointing on brick work or brick flooring with cement mortar 1:3(1 cement : 3 fine sand):		
	a) Flush / Ruled/ Struck or weathered pointing	sqm	214.40
	b) Raised and cut pointing	sqm	349.35
11	Pointing on tile brick work with cement mortar 1:3 (1 cement : 3 finesand):		
	Flush/ Ruled/ Struck or weathered pointing	sqm	292.05

Sl. No.	Name of Item	Unit	Rate in (Rs)
1	2	3	4
12	Pointing on stone work with cement mortar 1:3 (1 cement : 3 finesand) :		
	a) Flush/ Ruled pointing	sqm	319.35
	b) Raised and cut pointing	sqm	580.25
13	Raised and cut pointing on stone work in white cement mortar 1:3(1 white cement : 3 marble dust).	sqm	597.60
14	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement :2 fine sand) Flush/ Ruled pointing	sqm	177.85
15	Extra for pointing on walls on the outside at height more than 10 mfrom ground level for every additional height of 3 m or part there of.	sqm	7.60
16	Making drip course on sun shed or facia of P.H. of state tubwells.	R.M.	16.00
17	Mud Plaster 3/4" thick with Gobar Lipai	Sqm	42.00
18	Lipai with mud cow dung.	Sqm	18.00
19	Grouting of stone pitching with Cement Mortar (Labour Rate)	Sqm	51.00
20	Dismantling old plaster and racking out joint.	Sqm	23.00

Chapter - 11
WOODWORK

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	C.P. Teak wood/ sals wood/deodar wood wrought framed and fixed including simple moulding, straight work as in chaukhat excluding supply of all materials but including cost of labour and tools plants etc. required for proper completion of work.	Cum.	9603.00
2	Making and fixing of 20B. W.G. black Iron sheet paneled door and window shutters in 35mm thick indian sal wood frame including fixing of wooden cleats and stops including fixing and adjustment of hinges, bolts,locks, handels and spring and or other fitting but excluding their supply and including painting with 2 coats of black Japan on all Iron fitting if necessary and excluding cost of wood.	Sqm.	615.00
3	Making & Fixing of factory made braced and battened door 30MM thick kiln seasoned and chemically heated country wooden cleats, stoppers, fixing and adjustment of hinged bolts, locks handel spring and other fitting excluding their supply and cost of wood.	Sqm.	676.00
4	Providing and fixing 12MM (1/2") thick and 100MM (4") wide block board palmate with 19MM diameter. Aluminium curtain road and brackets, including facing with 25x3MM (1") (1/8") M.S flat 10cm (4") long and plug etc.complete with painting or oiling as required.	R.M.	492.00
5	As in item 4 but 150MM wide.	R.M.	522.00
6	Supply and fixing 4cm thick teak wood fully panelled and window shutter including supply and fixing of wodden cleats & stops and including fixing and adjustment of hinges, bolts blocks, handel spring and/or other fitting but excluding their supply and cost of wood.	Sqm.	805.00
7	Same as in item 6 above what deodar wood.	Sqm.	713.00
8	Supply and fixing 4cm thick teak door and window shutter, with 12MM thick both side commercial veneered teak wood particle board bended with S.H.P. type phenol for R.M. aldehyde synthetic resin adhesive and generally conforming to I.S. 3097-1980 (extrior grade) panels and fixing teak wood cleats and stops and including fixing and adjustment to hinges bolts blocks, handel spring and/or other fitting but excluding their supply and cost of wood.	Sqm.	604.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
9	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		
	a) Second class teak wood	Cum.	131576.95
	b) Sal wood	Cum.	106720.85
10	Providing Sal wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.	Cum.	97078.35
11	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)		
	1. Second class teak wood		
	a) 35 mm thick shutters	Sqm.	3704.45
	b) 30 mm thick shutters	Sqm.	3360.70
	2. Kiln seasoned and chemically treated hollock wood		
	a) 35 mm thick shutters	Sqm.	2511.95
	b) 30 mm thick shutters	Sqm.	2333.50
	3. Kiln seasoned selected planks of sheesham wood		
	a) 35 mm thick shutters	Sqm.	3259.05
	b) 30 mm thick shutters	Sqm.	2976.40
12	Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm ²	Sqm.	870.1
13	Extra for Gypsum panel Partitions in superstructure above floor V level for every four floors or part thereof.	Sqm.	149.3
14	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
	a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm.	3086.10
	b) 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm.	2818.50
15	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:		
	a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm.	2015.75
	b) 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm.	1881.95
16	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :		
	12 mm dia	metre	274.90
	20 mm dia	metre	375.25
	25 mm dia	metre	482.30
16	Providing and fixing fly/ mosquito proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm With 2nd class teak wood beading 62X19 mm all complete	Sqm.	1164.9
17	Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mm thick: Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm.	1693.3

Note:

Item No. 9 to 17 has been taken from DSR 2021

Chapter - 12
PAINING AND DISTEMPERING

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1.(a)	Applying ready mix primer including cost of material (a) steel surface (rates inclusive of repairing surface, preparing of surface by thoroughly cleaning oil, grease, dirt and other foreign material and scour with wire brush etc.)	Sqm	56.00
1.(a)	(b) wood surface (rates inclusive of repairing surface, preparing of surface by thoroughly cleaning oil, grease, dirt and other foreign material and scour with wire brush etc.)	Sqm	62.00
1.(b)	Same as in item 1 (A) above but on new wood surface	Sqm	62.00
2.(a)	painting 1st over priming coat (but excluding cost of priming coat) on steel and other material surface including cleaning the surface of all dirt, dust and other foreign matter and papering and stopping including cost of material, labour tool and paints etc.required for proper completion of work, paint shall be used as per standard 1.5 specification.	Sqm	74.00
2.(b)	Same as in item no. 2 (A) above but on new wood surface	Sqm	74.00
3	Extra cover Item no 2(A) and 2(B) for cover coat of paint after first coat.	Sqm	50.00
4	Same as Item no 2(A) and 2(B) above but for every coat on previously painted old surface.	Sqm	50.00
5	Distempering (first coat) with oil bond distemper of approved brand and manufacturer and of required shade on undercoated wall surface to give an even shade over an including a priming coat cement primer of approved brand and manufacturer such as Berger, J&N Shalimar, Asian Paints after thoroughly brushing the surface free from mortar dropping and other foreign matters and also including preparing the surface even with plaster of paris or approved synthetic material and sand papered smooth including cost of materials .	Sqm	86.00
6	As an Item No.(5) above for every coat after first coat of subsequent coat.	Sqm	50.00
7	First class hot bitumen on new wood and wood based surface using 0.16 kg of bitumener sqm to give an even shade including cleaning of all dust and other foreign matter including cost of materials.	Sqm	25.00
8	As in Item No.(7) above but for every coat after first coat using 0.12 kg of colour per sqm.	Sqm	19.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
9	Applying first coat of any approved preservative on new wood work and wood based surface including preparing the surface by thoroughly cleaning oil grease dirt and other foreign matters, sand preapiring knotting including cost of all materials..	Sqm	50.00
10	As an Item No.(9) above but for every coat after first on previously treated surface.	Sqm	24.00
11	Oiling wood work with double boiled linsed oil to give an even an surface including cleaning the surface of all dirt just and sand papered so as to produce a smooth dry and matt suraface including cost of materials.	Sqm	56.00
12	Removing old paint or varnish from steel and metal surface or from wood and wood based surface with paint remover of approved brand and manufacturer or with caustic soda and making the surface even excluding cost of materials.	Sqm	19.00
13	Polishing with french polish or wax polish (in proportion 2 bees wax 1.5 linsed oil, 1 turpentine oil 0.5 varnish by weight) on new wood and based surface to give an even surface including cleaning the surface of all dirt, dust and sand papered , smooth and cost of wood filter including cost of all materials.	Sqm	62.00
14	As an Item No.13 above but polishing on previously polished wood based surface (wax polish in proportion 2 bees wax, 1.5 linsed oil,1 turpentine oil, 0.5 varnish by weight.)	Sqm	37.00
15.(i)	Finishing walls with water proofing cement paint of approved manufacturers such as Super Snowcem, Durrocem, Robiacem, Guttucem, supermen quality of required shade on uncoated wall surface (one coat) over one coat white cement primer to give even shades after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials including curing and cost of all materials.	Sqm	62.00
(ii)	On old surface with out priming.	Each	37.00
16	same as Item No.(15) above but for each coat of water proof cement paint after the first coat to give an even shade.	Each	31.00
17	Finishing walls with one coat of water proof cement paints of approved quality on previously ald treated surface with thos paint to give an even shade after thoroughly Brushing the surface to remove all dirt and remains pf loose powdered materials including curing and cost of all materials.	Cum	39.00
18	Painting each coat on steel surface (labour only).	M.T.	19.00
19	Painting gauge excluding cost of paints (labour only).	Sqm	62.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
20	Painting gauge including cost of materials upto 25 cm width.	Cum	172.00
21	Same as above but width more than 25 cm.	Cum	245.00
22	Painting & Printing sign board including cost of materials.	Cum	282.00
23	Printing letter including materials:-	Each	9.00
	(i) Up to 10 cm. ht	Each	10.00
	(ii) Up to 20 cm.ht	Each	15.00
	iii) Up to 30 cm.ht	Each	15.00
24	Painting on sheet piles with bituminous / anticorrosive paint one coat (labour only).	Sqm	23.00
25	Painting hectometer and kilometer stone excluding writing of	No	81.00
26	Coaltarring of roof including cleaning of roof surface and fuel excluding cost of coaltar etc	Sqm	24.00
27	Laying tarfelt with hot maxfalt including fuel (labour rate for one layer)	Sqm	134.00
28	Cleaning and polishing excluding material (labour only)		
	(a) Chair ordinary	nos.	30.00
	(b) Chair easy	nos.	60.00
	(c) Commodes	nos.	41.00
	(d) Hat rack	nos.	15.00
	(e) Pankhas	nos.	31.00
	(f) Table (760 x 510mm)	nos.	65.00
(g) Table (1075 x 769mm)	nos.	82.00	
29	Painting electric pole (labour only)	Nos	144.00
30	Painting electric pole casing strip (labour only)	R.M.	4.00
31	Clearance and coaltarring (labour only)	Sqm	10.00
32	Bituminous/Anticorrosive paint on new surface excluding cost of paint.	Sqm	12.00
33	Providing and applying one coat Polyurethane primer/Surfacer (Make- Asian) by spraying machine on new wooden surface with wood filler/Polyster putty (Make- Asian) as required including cost of all material, labour and T&P etc. required for proper completion of work./Sft.	Sqm	1018.00
34	Providing and applying two coat Polyurethane paint (Make-Asian) by spraying machine on wooden surface after priming (Excluding priming cost) including cost of all material, labour and T&P etc. required for proper completion of work./Sft.	Sqm	1053.00

Note: The consumption of material will be taken as per manufactures's recommendation.

Chapter - 13
WHITE WASHING AND COLOUR WASHING

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	White washing one coat including cost of materials over old white wash.	Sqm.	11.60
2	White washing one coat including cost of materials over new surface	Sqm.	13.10
3	White washing II coat and subsequent coats including cost of materials.	Sqm.	13.37
4	Colour washing two coat including cost of materials over old surface	Sqm.	30.88
5	Colour washing two coat of white wash new surface with cost of material.	Sqm.	44.25
6	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm.	16.35
	Distemping excluding cost of materials		
7	a) One coat over old distempred surface	Sqm.	31.00
	b) One coat over new surface	Sqm.	32.00
	c) Subsequent coat over per coat	Sqm.	17.00
8	Cement and white lime wash excluding the cost of cement.	Sqm.	7.00

Note:

Rates of Item No. 1 to 6 has been taken from DSR 2021

Chapter - 14
LINING OF CANAL

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
1	Preparation of subgrade excluding cost of earth work	Sqm.	13.00
2	Laying Single layer of brick or line in lining in channel including 20mm thick plaster on top (labour only)	Sqm.	195.00
3	Double tile and brick lining insides of channels including 15mm thcik sandwitched plaster including cost of curing dewatering over patra including labour only	Sqm.	295.00
4a	Supplying / Laying LDPE film 200 micron of 1st grade including all labour and T&P etc.	Sqm.	58.00
4b	Laying LDPE film including all labour T&P etc. (Labour only)	Sqm.	7.00
5a	Laying 100 mm thick concrete in lining including mechanical mixing compaction with vibrator and proper curing.	Sqm.	135.00
5b	Laying 75 mm thick concrete in lining including mechanical mixing compaction with vibrator and proper curing.	Sqm.	101.00
7	Extra for CC Lining with paver Machine including generator.	Sqm.	88.00

Chapter - 15
TRACING SHAJRAS AND COPYING KHASRAS

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Tracing Sajras sheet consolidated are, marking of commands, drainage, water shed, guls, chainage, outlets, masonry work etc. including cost of colour but excluding cost of cloth.	100 Sqcm	127.00
2	Tracing and painting of index map on cloth, marking of channels, drains road rivers, etc. with their mileage including cost of colour but excluding cost of cloth.	100 Sqcm	75.00
3	Copying of Khasras (Labour)	100 Nos	63.00
4	Copying Khatauni (Labour)	100 Nos	135.00

Chapter - 16
PILE DRIVING

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Sheet piling driving sheet piles including labour and all T&P required for proper completion of work but excluding cost of sheet piles in ordinary soil sand and light clay.		
(a)	Up to depth of 5.00m	M.T.	13757.00
(b)	Above 5.00m up to 10.00m	M.T.	17981.00
(c)	Above 10.00m up to 15.00m	M.T.	16808.00

Note:

- 1 20% extra rates will be admissible when the water depth along with the alignment of piling is more than 10m and boat etc. has to be used for movement of labour and equipment etc.
- 2 For sheet pile length in water for air that is above ground or bed level 25% of basic rates shall be admissible.
- 3 25% extra shall be admissible for hard strata having stiff clay earth mixed with Charri. Bajri, Kankar etc.

2	Bracing of balli screens including all fittings complete for work.		
	In Water	R.M.	82.00
	In Dry	R.M.	45.00
3	Balli piling (Measurement and payment for actual length driven below G.L. of bed level) Balli piling 15cm dia and above including labour and all T&P required for proper completion of work but excluding cost of ballies.		
(a)	Up to depth 5.00m	R.M.	177.00
(b)	Above 5.00m to 10.00m	R.M.	200.00

Note :

For balli piling in river where piling plant is to be installed on boats the rate shall be enhanced by 20%.

Chapter - 17
WELL SINKING

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Sinking of 2.5m external diameter well in average type of strata containing sand, medium clay mixed with kankar, charri or both including cost of labour and equipment with disposal of muck within a lead of 60m		
(a)	0.00m to 3.00m	R.M.	4051.00
(b)	3.00m to 6.00m	R.M.	5809.00
(c)	6.00m to 9.00m	R.M.	8103.00
(d)	9.00m to 12.00m	R.M.	10549.00
(e)	12.00m to 15.00m	R.M.	12078.00
(f)	15.00m to 18.00m	R.M.	15136.00
(g)	18.00m to 21.00m	R.M.	16819.00
(h)	21.00m to 24.00m	R.M.	18653.00
(i)	24.00m to 27.00m	R.M.	20335.00
(j)	27.00m to 30.00m	R.M.	22323.00
(k)	30.00m to 33.00m	R.M.	24463.00
(l)	33.00m to 36.00m	R.M.	26450.00
(m)	36.00m to 39.00m	R.M.	28132.00
(n)	39.00m to 42.00m	R.M.	30246.00

Note:

- 1 For higher diameter the rates shall be enhanced in proportion with the square of external diameter.
- 2 50% higher rate will be applicable in strata having hard and sticky clay and block kankar.
- 3 1000% higher rates will be applicable for snags such as boulder crates masonry concrete blocks.

2	Fabrication of cuttig edge including placing and site welding of plates M.S. Bars, braces and also inclusive of wooden sleepers	M.T.	96000.00
3(a)	Centering and shuttering for well curbs, dia of well upto 4.00m	Sqm	1320.00
3(b)	Extra rate for every 1.00m dia beyond 4.00m	Sqm	90.00
4	Sand filling in wells excluding cost of sand with in lead of 60m	Cum.	35.00
5	Making eccentric loading platform including all labour for handling of girders, cost of welding and handling material within 100m lead and T&P	M.T.	4400.00
6	Placing of concrete blocks around 1.00 Cum size of wells for eccentric loading including all labour and T&P	M.T.	140.00
7	Unloading of heavy steel section from loading platform or well including cutting, dismantling and staking within lead of 60m	M.T.	1650.00
8	Unloading CC blocks from loading platform of well and its staking with in a lead of 60m.	M.T.	140.00

Note: For execution of item No. 5 to 8, crane will be supplied free of cost by department.

Chapter - 18

Road Works

As per PWD SOR Kanpur Commissionery

Chapter-19
SURVEYING

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
1	One time L-Section survey with levels at 100 M. interval and X-Section survey 100 M. interval or at every change point which ever is less by total station GPS instrument and leaving engraved bench mark at top of every pucca work slab/paraped including earth work calculations and providing drawings for L-Section and X-Section in 5 sets for permanent record as per department norms in hard and soft copies required for proper completion of work.		
(a)	For main canal/feeder with service road.	Per Km.	6400.00
(b)	For distributaries and minors with service road.	Per Km.	5250.00
(c)	For distributaries and minors without service road.	Per Km.	4095.00
(d)	For drains	Per Km.	4725.00
(e)	For rivers X-Section only	Per Km.	7035.00
2	Silted L-Section survey with levels at 100 M. interval and X-Section survey each at 100 M. interval with levels at 1.00 M. interval or at every change point which ever is less with IOP level required for proper completion of work.		
(a)	For main canal/feeder with service road.	Per Km.	880.00
(b)	For distributaries and minors with service road.	Per Km.	700.00
(c)	For distributaries and minors without service road.	Per Km.	470.00
(d)	For drains	Per Km.	470.00
3	Conducting feeder channel canal survey and taking levels across the canal using modern techniques like Echo sounding or equivalent system taken at 100 M. interval and preparation of X-Section data submitting the drawing in 10 copies along with soft copy on CD required for proper completion of work.	Per X-Section	3410.00
4	Preparation of L-Section using Auto CAD along the centre line of Canal feeder channel with the help of X-Section data submitting the drawing in 10 copies along with soft copy on CD required for proper completion of work.	Per Km.	1175.00

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
5	Videography/Photography of silt clearance works in canal and drains before, during and after silt clearance by DRONE as per requirement including supply of Videography/Photography in Pen Drive and vehicles for movement as per direction of Engineer in charge.	Per Km.	1650.00
6	Contour survey for proposed canal system or proposed flood project on river/ drains making grid of 50mX50M with helpof instrument DGPS/Total Station machine including computerized plotting. Drawing and providing 03 Sets of hard copy and 01 set of soft copy in pendrive	Per Hect.	630.00
7	Preparation of X-section @50M interval along the alignment taking levels @10M interval across the proposed width and preparing L-section @200M interval along the alignment of proposed canal system making grid of 50MX50M with the help of instrument DGPS/Total Station machine including computerized plotting. Drawing and providing 03 Sets of hard copy and 01 set of soft copy in pen drive.	Per Km	9985.00
8	Preparation of Quantity Survey of Earth work of proposed canal in cutting/filling detail including all labour and T&P etc with computerized plotting. Drawing and providing 03 Sets of hard copy and 01 set of soft copy in pen drive.	Per Km	3500.00

Chapter-20

DAM AND EMBANKMENT(LABOUR RATE)

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
1	Laying shingle or R.B.M. in pitching.	Cum	132.00
2	Sand loading in D/S of Dam.	Cum	55.00
3	Laying R.B.M. in drains or filter of Dam	Cum	132.00
4	Laying boulder in drain or filter of Dam.	Cum	132.00
5	Dumping rora or boulder in scours.	Cum	132.00
6	Laying filter in layers for walls and lining.		
	(a) Pea gravel	Cum	80.00
	(b) Coarse materials	Cum	94.00
7	a) Laying and packing boulder in wire crates including tying of crates.		
	i) Less than 40Kg. size.	Cum	138.00
	(ii) More than 40 kg. size	Cum	222.00
	b) Laying wire crates in water and packing boulder less than 40 Kg. size.	Cum	154.00
8	Laying boulder in spurs/studs.	Cum	138.00
9	Laying coarse sand in filter.	Cum	132.00

Chapter-21
FLOOD WORKS

Sl.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
1	Supply and fixing bamboo khoonta 7.5 cm to 10 cm dia.		
	a) upto 1.20 m. long	Each	49.00
	b) 1.20 to 1.80 m. long	Each	55.00
	c) 2.5 to 3.0 m. long	Each	122.00
2.(a)	Supplying of Nylon crate size 1.0X1.0X1.0 M with mesh size 10.00X10.00 cm and weight not less than 450 gram per No.	Per no.	194.00
2.(b)	Supplying of Nylon crate size 1.0X1.0X1.0 M with mesh size 15.00X15.00 cm and weight not less than 375 gram per No.	Per no.	125.00
2.(c)	Supplying of Nylon crate size 1.0X1.0X1.0 M with mesh size 20.00X20.00 cm and weight not less than 300 gram per No.	Per no.	95.00
3.(a)	Making of bamboo crates of size 1.0m X1.0m X1.0m including cost of bamboo size 50mm to 80mm dia and nails with material and labour.	Each	1470.00
(b)	Supply of Bamboo crate of finished size 1.5x1.5x1.0 m. including cost of Bamboo of size 6 to 10 cm. dia nails with material and labour.	Nos.	2045.00
(c)	Making of bamboo crates of size 1.5m X1.0m X1.0m including cost of bamboo size 50mm to 80mm dia and nails with material and labour.	Each	2200.00
(d)	Making of bamboo crates of size 3.0m X1.0m X1.0m including cost of bamboo size 50mm to 80mm dia and nails with material and labour.	Each	3600.00
(e)	Making of bamboo crates of size 6.0m X1.0m X1.0m including cost of bamboo size 50mm to 80mm dia and nails with material and labour.	Each	7200.00
4.(a)	Polypropylene (PP) Gabion Rope case(1.8m X 1.8m X 0.5m) for earth filled bags.	Each	2010.00
(b)	Polypropylene (PP) Gabion Rope case(1.8m X 1.2m X 0.5m) for earth filled bags.	Each	1385.00
5.(a)	Supply of HDPE Geo Bags made of 200 GSM woven fabric confirming to 15351(2015) of size 1.09m X 0.69m.	Per no.	168.00
(b)	Supply of HDPE Geo Bags made of 240 GSM woven fabric confirming to 15351(2015) of size 1.09m X 0.69m.	Per no.	185.00
6	Filling of Geo Bags with R.B.M Laying and machine sewing with geo materials and laying (1.09 × 0.69).	Each	63.00

Sl.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
7(a)	Filling empty cement bags with local earth/RBM/Silt, machine sewing and placing in position within 60M royalty etc. complete.	Each.	13.00
(b)	Filling empty cement bags with local earth/RBM/Silt, hand sewing with suja & sutli and placing in position within 60M royalty etc. complete.	Each.	11.00
(c)	Filling empty cement bags with transported earth/RBM/Silt upto a lead of 1.0 Km., machine sewing ,placing in position including cost of cartage of earth, labour, T&P etc.	Each.	17.00
(d)	Filling empty cement bags with transported earth/RBM/Silt upto a lead of 1.0 Km., hand sewing with suja & sutli, placing in position including cost of cartage of earth, labour, T&P etc.	Each.	15.00
8	Supply of old /used empty cement bags including contractor profit and all taxes.	Each	7.00
9	Supply of HDPE woven bags confirming to BIS No. 14887-2014 of Cement bag size.	Each	13.50
10	Supply and filling Jhakar or Jhau and placing in position Involving carriage up to 1 Km.		
	I) Without boat in dry.	Cum	133.00
	II) With boat in water.	Cum	295.00
11	Supply and filling jhakar or jhau and placing in position involving carriage up to 5Km.		
	I. Without Boat in dry.	Cum	350.00
	II With boat in water.	Cum	362.00
12	Cutting, carriage and placing in position trees branches up to 5 Km. including tying with G.I. wire or nariyal ropes with wooden hoot's.	Each	161.00
13	Making wire crates 8 SWG/10 SWG 15cmX15cm. mesh.		
	(a) Single knot	Sqm	15.00
	(b) Double knot	Sqm	19.00
14	Supply of Mud pump for silt disposal/diversion in river including stacking, operator, diesel, T&P etc for proper completion of work.	Hour	2200.00
15	Collection of Silt/sand from river bed at river bank by Mud pump including stacking, T&P etc for proper completion of work.	Cum	110.00

Sl.	ITEMS OF WORK	UNIT	RATES (RS.)
1	2	3	4
16	Geo-textile fabricated to form a three dimensional mattresses after filling sand at design slope of affected reach, filled up with sand by pump, upper layer of the mattress being heavily woven with polypropylen fabric needle-punched with a mixture of U.V. stabilized green fibers and cut tape yarns (UPPER LAYER PROPERTIES:1) Mass per unit area (ASTM D5261)>650gm ² ,2)Tensile strength (ASTM D4595)42KN/M,3 Pore size, (ASTM D6767-2011)<0.35mm,4) Abrasion resistance (ATM D 4886) Retain tensile strength>35KN/m,5) UV Stability(strength retained per ASTM D 4355-92,@500hrs) 80%,6) Resistance to oxidation (strength per ASTM ISO/TR 13438:1999(E)@100oC for 28 days) 80% LOWER LAYER Strength (ASTM D4595)>76KN/m,3) Pore size, (ASTM D6767-2011)<0.35mm) the sewing thread being of high tenacity polyester, continue parallel stitches positioned 350mm apart with a stitch length not exceeding 40mm (Typical value of tensile strength>1000N, elongation at break is 20%).		
(a)	Supply of 1m. Diameter, 20m. long techtube geotextile tube made of 80KN Bi-axial strength multifilament woven geotextile.	No.	24150.00
(b)	Supply of 2m. diameter, 20m. long techtube geotextile tube made of 80KN Bi-axial strength multifilament woven geotextile.	No.	42000.00
(c)	Supply of 3m. diameter, 20m. long techtube geotextile tube made of 80KN Bi-axial strength multifilament woven geotextile.	No.	51000.00
(d)	Supply of 4m. diameter, 20m. long techtube geotextile tube made of 200 KN Bi-axial strength multifilament woven geotextile.	No.	110000.00
(e)	Supply of 5m. diameter, 20m. long techtube geotextile tube made of 200 KN Bi-axial strength multifilament woven geotextile.	No.	134500.00
(f)	Supply of Sand filled tubular Mattress in double layered composite	No.	1725.00

Chapter - 22
MISCELLANEOUS

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
1	Boaring 15 m. depth in average type of strata containing sand and medium dry clay		
	(a) 0 to 10 m.	R.M.	734.00
	(b) 10 to 20 m.	R.M.	811.00
	(c) 20 to 30 m.	R.M.	862.00
	(d) 30 to 40 m.	R.M.	939.00
	(e) 40 to 50 m.	R.M.	991.00
2	5.00 to 7.5 cm. boaring hand pump including lowering assembly and extraction of pipe with contractor equipment and T&P	R.M.	106.00
3	Rescanning with good plastic cane including cost of material.		
	(a) Armed chair seat	Each	121.00
	(b) Armed chair back		109.00
	(c) Easy chair seat or back		167.00
	(d) Long easy chair and back		242.00
4	Laying and fixing in position and alignment including excavation and back filling excluding cost of material.		
	(a) Hume pipe 10 cm. dia or 4" dia	R.M.	23.00
	(b) Hume pipe 15 cm. or 6" dia	R.M.	46.00
	(c) Hume pipe 20 cm. or 8" dia	R.M.	58.00
	(d) Hume pipe 30 cm. or 12" dia	R.M.	92.00
	(e) Hume pipe 60 cm. or 24" dia	R.M.	184.00
	(f) Hume pipe 90 cm. or 36" dia	R.M.	357.00
	(g) Hume pipe 100 cm. or 40" dia	R.M.	414.00
	(h) Hume pipe 120 cm. or 48" dia	R.M.	460.00
5	Supply of Geo-tubes (size 3.00 m. diameter x 20.0 m. length) manufactured from woven multifilament polypropylene geotextiles with minimum gramage @ 330 gsm and tensile strength warp direction 80 kN/m.including contractor profit and all taxes.	Per no.	50480.00
6	Supply of poly propylene multifilament woven GEO textile fabric double line stiched bag of size 0.69 m x 10.09 m 200gsm including contractor profit and all taxes.	Per no.	194.00
7	Supply of new HDPE/PP bag (Cement bag size 48 cm. x 75 cm.) including contractor profit and all taxes.	Each	18.00
8	Supply of old /used empty cement bags including contractor profit and all taxes.	Each	7.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
9	Pilling 12 cm. to 15 cm. dia ballies in silty and sandy strata		
	(i) upto 6 m. depth in water.	R.M.	110.00
	(ii) Extraction of above	R.M.	53.00
10	Pilling 12 cm. to 15 cm. dia ballies in silty and sandy strata		
	(i) upto 6 m. depth in dry.	R.M.	82.00
	(ii) Extraction of above	R.M.	50.00
11	Fixing kilometer, Hectometer, boundry stones, wheel gauds, including carriage upto 80 Km.	Each	74.00
12	Laying G.C. sheet roofing including fixing J. Bolts and washers (Labour only)	Sqm.	62.00
13	Laying AC. Sheet roofing including fixing J. Bolts and washers (Labour only)	Sqm.	62.00
14	Dismantling roof of AC. Or G.C. sheet	Sqm.	21.00
15	Fixing and tightening wire fencing with cost of nails &	R.M.	8.00
16	Supply and fixing 75 mm x 100 mm tin plate for numbering trees including cost of paint and numbring.	Each	14.00
17	Numbering trees by engraving in size 75 mm. x 100 mm and painting including cost of paint.	Each	13.00
18	Bracing of ballie screens including all fittings complete for	R.M.	69.00
19	Bracing of ballie screens including all fittings complete for	R.M.	37.00
20	Continuos welding cutting by gas plant including cost of	Rcm.	8.00
21	Continuos welding cutting by electric plant including cost of	Rcm.	8.00
22	Making tree gaurds with brick jali of 1.5 m. dia at bottom and 1.2 m. dia at Top with 1 m. height.(Labour only)	Each	276.00
23	Making tree gaurds with brick jali in mortar size 1.5 m. dia 1.0 m. high. (Labour only)	Each	265.00
24	Supply of Eucalyptus Ballies		
	(a) 100 to 150 mm. dia	RM.	115.00
	(b) 151 to 200 mm. dia	RM.	140.00
25	Supply of bamboo 50-80 mm. dia 6.0 m. long.	Each	232.00
26	Bamboo struts 6 to 8 cm. thick pilling 1/3 length of struts and filling with jhakar etc. excluding supply (only labour)		
	(a) 2.5 m. long struts	Each	47.00
	(b) 2.0 m. long struts	Each	29.00
	(c) 1.5 m. long struts	Each	23.00
	(d) 1.0 m. long struts	Each	17.00
27	Turfing with Chippy/ Grass/ Doob including watering	sqm.	17.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
28	Grouting cement slurry in grout holes under specified pressure for consolidation / contact grouting including cost of all materials, machinery, labour, ventilation, lighting, drainage, re-drilling wherever necessary, and all other ancillary operations etc. complete.	Tonne	8630.00
29	Drilling 50 to 75 mm diameter drainage holes vertical or inclined in rock / concrete in tunnel by percussion drilling method using wagon drill or other suitable drilling equipment including cost of all materials, machinery, labour, ventilation, lighting, drainage etc. complete.	m	609.00
30	Drilling 35 to 40 mm diameter grout holes in concrete / rock by percussion drilling using jack hammer or stopper drills as directed to specified depth for consolidation/ contact grouting including cost of all materials, machinery, labour, ventilation, lighting, drainage, dewatering cleaning holes and all other ancillary operations etc. complete.	m	327.00
31	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) PE100 PN6 confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing of pipes by electro fusion / butt welding process .with all leads and lifts etc. complete		
	63 mm dia pipes	m	105.38
	75 mm dia pipes	m	149.60
	90 mm dia pipes	m	205.11
	110 mm dia pipes	m	293.55
	125 mm dia pipes	m	381.05
	140 mm dia pipes	m	474.20
	160 mm dia pipes	m	616.27
	180 mm dia pipes	m	771.51
	200 mm dia pipes	m	953.10
	225 mm dia pipes	m	1203.37
	250 mm dia pipes	m	1475.28
	280 mm dia pipes	m	1842.22
	315 mm dia pipes	m	2323.95
	355 mm dia pipes	m	2963.74
	400 mm dia pipes	m	3824.63
	450 mm dia pipes	m	4842.66
500 mm dia pipes	m	5984.87	
560 mm dia pipes	m	7487.44	
630 mm dia pipes	m	9459.50	

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
	710 mm dia pipes	m	9723.89
32	Humus laying 8 cm. thick on slops of embankment.	Sqm	17.00
33	Laying Ballie rafter on roof.	R.M.	15
34	Dismantling Balie rafter on roof.	R.M.	7
35	Laying Battens and wind ties.	R.M.	7
36	Dismantling Battens and wind ties.	R.M.	4
37	Piling 12cm to 15 cm. dia ballies in silty and sandy strata		
	Up to 6 M depth in dry	R.M.	77
	Extraction of above.	R.M.	47
38	Brick work in lining 80mm thick single layer of brick masonry	Sqm	59
39	Same as above but without 10mm mortar underneath.	Sqm	43
40	Continuously welding by gas plant including cost of electrodes.	RM	7
41	Continuous welding cutting by electric plant including cost of electrodes.	RM	7
42	Making sub grade/in lining work including watering compaction and preparation of surface.	Sqm	10
43	Thatching 10cm thick (labour only)	Sqm.	49
44	Thatching 8cm thick (labour only)	Sqm.	40
45	Jungle clearance of lined gull of tube well	K.M.	437
46	Supplying and fixing galvanized corrugated iron roofing 24 SWG in position excluding cost of all material but including labour and T&P, required for proper completion of work including wastage	Sqm.	94.00
47	Supplying and fixing 22 BWG, ridges, valleys and gutters for iron roofing 'J' or 'U' bolts, 10mm Excluding cost of all material	R.M.	157.00
48	. Fixing G.C. sheet roofing with cost of all material except G.C. sheet.	Sqm	74.20
49	Making drips course.	R.M.	14.00
50	Fixing barbed wire fencing including fixing it to post & stretching including labour and T and P etc. excluding cost of posts and wires.	R.M.	4.00
51	Fixing angle iron pole for fencing (labour only)	Each	12.60
52	Erecting tubuler structure / Nishen shed including trusses, pulins, columns in position with grouting of anchor bolts in foundation, excluding cost of material.	M.T	8947.00
53	Gas cutting of sheet piles.	per cm. of cut	3.90
54	Making hole in sheet piles	Each	30.80

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
55	Fabrication mild steel Iron work of small sizes and sections such as grating and chaukhats, roof work including where necessary and fixing bolts as required for completion of work	Quintal	2580.00
56	Fixing iron gril on windows (Labour only including cost of screws)	Sqm	51.90
57	Roof Work : Plain A.C. Sheet in false ceiling with beading etc. excluding cost of material.	Sqm	83.00
58	Mild steel or Iron work in purlins and rafters including drilling holes, fixing in position excluding supply of steel, all bolts and nuts, wastage but including labour and T&P etc. required for proper completion of work	Quintal	5840.00
59	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
	a) Marble work (Code 8.3.1)	Rm	168.00
	b) Granite work (Code 8.3.2)	Rm	286.80
60	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete. (Code 8.6)	Sqm	280.55
61	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). (Code 10.28)	Kg	467.00
62	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone. (Code 11.29)	Sqm	587.85

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
A	Extra for pre finished nosing in treads of steps of Kota stone/sand stone slab. (Code 11.31)	Rm	112.90
63	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (Code 12.1)		
	a) 1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	940.95
	b) 0.80 mm thick with zinc coating not less than 275 gm/m ²	Sqm	809.50
64	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. (Code 12.4)		
	a) 0.80 mm thick with zinc coating not less than 275 gm/m ²	Rm	595.70
65	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge. (Code 16.83)	Sqm	71.70
66	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost). (Code 16.84)	Sqm	157.65

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
67	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). (Code 20.2.1)		
	a) 450 mm dia pile	Rm	407.55
68	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : (Code 21.1)		
	a) For fixed portion		
	i) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	323.20
69	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
	a) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	391.40
70	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. (Code 21.2)		
	a) Pre-laminated particle board with decorative lamination on both sides	Sqm	798.10
71	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): (Code 21.3)		
	a) With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	762.05
	b) With float glass panes of 5.0 mm thickness (weight not less than 12.50kg/sqm)	Sqm	988.35
72	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses. (Code 26.19)		
	a) 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	Sqm	744.10
73	Maintenance of Lawn & Plantation including cost of Mali, Labour, T&P, Fertilizer and Pesticides etc. required for proper completion of work.	Rs/Sqm per Month	36.00

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
74	Digging hole (60 Cm dia & 60 Cm deep) in ordinary soil and refilling the same with the excavated earth mixed with manure OR Sludge in the ration of 2:1 by volume flooding with water dressing i/c removal of rubbish and surplus earth if any with all leads & lift.	Nos	60.00
75	Supply & Plantation of Polyalthia pendula (Ashok Pendula)/ Cut Sagaun/ Ficus etc. of of height up to 100-152 Cm including all cost of materials, labour and T&P etc.	Nos	120.00
76	Supplying of precast cement concrete pot at site including loading & unloading and carriage etc complete. (Minimum 30 Cm dia & 30 cm deep)	Nos.	120.00
77	Repairing of Electromagnetic bracks by detaching from electric motor and coupling and disassembling opening and replacing wornout brack shoe lining, torque spring, liver pin, limit switch, allen screw etc after making holes in bracks and rivetting as required as per sample and replacing burnt brackcoil including costs of all materials, labour and T&P etc after the deducting the cost of all damaged materials.	Nos.	7245.00
78	Repairing of starter 7.5 HP with disassembling of Damaged/ wourout component by replacing new components with proper cleaning and checking including cost of all materials, labour and T&P etc. for proper completion of work after the deducting cost of old damaged materials.	Nos.	5520.00
79	Providing & Fixing cupling bush & cupling bolt including cost of all materials, labour and T&P etc for proper completion of work.	Nos.	633.00
80	S/Laying 3 core ISI marked H.T. cable cross linked polyethelene (XLPE) insulated PVC outer sheathed galavanised steel strip armoured cable suitable for earthed system for rated voltage 11 Kv and conforming to IS 7098 (Part-2) 1985/2011 OR its latest amendements if any, in different sizes including Cost of all materials, labour, T&P etc. required for proper completion of work.	Rm	

Sl. No.	Name of Item	Unit	Rate in Rs
1	2	3	4
81	P/Fixing Retro refelective sign board are made of 2 mm thic aluminium sheet to be fully covered with engineers, grade retro reflective as per colour required by I/O. The retro reflective sheet shall be proceed on aluminum leased as per recommendation. Text and sign symbols will be computerized and fabricated on N.T. grade. The sheet with lives of extra frame of angle iron 32x32x3 mm duly painted. Two posts of M.S. Heavy duty channel of 75x75x5 mm 3000 mm long and painted with synthetic enamel paint i/c cost of all material, labour & T&P etc. required for proper completion of work.	Sqm	19250.00

- Note :-**
1. Item No. 59 to 72 has been taken from DSR 2021.
 2. Item No. 73 to 76 has been taken from UPPCL SOR.
 3. Item No. 80 has been taken from M.V.V.N.L.SOR 2021.
 4. Item No. 81 has been taken from U.P.SI.C. SOR.

RATES OF MECHANICAL ITEMS

Chapter - 23
RATES OF MECHANICAL ITEMS

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
1	Screening and feeding of Pea Gravel	Cum	81.00
2	Laying and dismantling for water supply at drilling site	RM	3.00
3	Improving approach road to drilling site	Per Km	556.00
4	a) Labour rate for loading of Pea Gravel on Govt. Truck	Cum	69.00
	b) Unloading of Pea Gravel from truck and proper stacking	Cum	29.00
5	Loading & Unloading of Pipe assembly on Govt. Truck		
	a) 150 mm dia	M	6.00
	b) 200 mm dia	M	7.00
	c) 300 mm dia	M	9.00
	d) 350 mm dia	M	11.00
	Loading & Unloading of MS Socket on Govt. Truck		
	a) 14" dia	No.	18.00
	b) 12" dia	No.	18.00
	c) 8" dia	No.	12.00
	d) 6" dia	No.	12.00
	Loading & Unloading of MS Well Cap on Govt. Truck		
	a) 14" dia	No.	15.00
	b) 12" dia	No.	15.00
	Loading & Unloading of MS Bail Plug on Govt. Truck		
	a) 8" dia	No.	12.00
	b) 6" dia	No.	12.00
	Loading & Unloading of MS Reducer on Govt. Truck		
	a) 14"x8"	No.	24.00
	b) 12"x6"	No.	24.00
	Loading & Unloading of MS Clamp on Govt. Truck		
	a) 14"	No.	72.00
	b) 12"	No.	72.00
6	Erection and dismantling of Tripod levelling legs. Fitting and dismantling chain tackle O.P. Unit/Compressor only	Per Job	476.00
7	Fixing and dismantling V-Notch tank including fitting and dismantling delivery pipe and paint.	Per Job	557.00
8	Lowering and lifting Airline during entire development operation works including all other pertaining to development works.	R.Lt.	6.00
9	Loading and Unloading into and from Govt. Truck and staking of T&P and other materials while shifting from one site to another site pertaining to		
	a) Rig Machine	Job/well	1390.00
	b) Compressor	Job/well	992.00
	C) O.P. Unit	Job/well	992.00
10	Providing and mixing local mud for rig machine only	Per M	16.00
11	Dressing rock Pilot Bit of size	Depth/teath	26.00

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
12	Dressing of pilot bit by Sutable welding rods and other allied works		
	a) 16" to 12" dia	Each	1787.00
	b) 18" dia	Each	2183.00
	c) 22" dia	Each	2581.00
	d) 24" dia	Each	2581.00
	e) 27" dia	Each	2978.00
	f) 31" dia	Each	3176.00
13 i)	Lowering/lifting of pump set 1 1/2 Cusec upto 21 Mt. head with motor and T&P		
	a) V.T. Set	Per Job	1092.00
	b) Submersible Pump Set	Per Job	951.00
13(ii)	Lowering/lifting of pump set 1 1/2 Cusec above 21 Mt. Head with Motor and T&P		
	a) V.T. Set	Per Job	1092.00
	b) Submersible Set	PerJob	1092.00
13 (iii)	Lowering and lifting of pump set of O.P. unit with column of 200/160 mm. dia and fixing of well cap	Per Job	1886.00
14	Levelling and lifting and fitting of O.P. unit/ compressor	Per Job	397.00
15 (i)	Threading of M.S. assembly pipe with V- threads 8 T.P.I.		
	a) 150 M.M	Per End	146.00
	b) 200 M.M.	Per End	202.00
	c) 300 M.M.	Per End	248.00
	d) 350 M.M.	Per End	293.00
15 (ii)	Threading of M.S. column pipe/ delivery pipe (V- Threds)		
	a) 150 M.M.	Per End	130.00
	b) 200 M.M.	Per End	149.00
16	Threading of M.S. socket pipe with 8 tpi. V- threads		
	a) 150 M.M.	Each	179.00
	b) 200 M.M.	Each	227.00
	c) 300 M.M.	Each	267.00
	d) 350 M.M.	Each	318.00
	e) Threading of M.S. reducer 14"x8" & 12"/6"	Each	198.00
	f) Threading of Bell Plug 8", 6"	Each	138.00
	g) Threading of well cap 14"/12"	Each	154.00
17	Reconditioning of pilot bit by cutting the worm and wings and welding hard and M.S. strip of required shape by hay slote was including facing and grinding.		
	a) 16" dia	Each	3972.00
	b) 18" dia	Each	4368.00
	c) 22" dia	Each	5559.00
	d) 24" dia	Each	5956.00
	e) 27" dia	Each	6353.00
	f) 31" dia	Each	6750.00

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
18	Reconditioning of R.R. bit by dismantling the shell from arms, rementaling the worn out ruts damaged portion of the shell with hard duroid electrode alling with grinding and finishing all the rubbed faces as well as shaping the dressing and cutting teeth to proper shape and fitting new central pin a bearing roler of proper shape and adequate alignment.		
	a) 300 MM size	Per Job	17867.00
	b) 450 mm size	Per Job	24816.00
	c) 550 MM size	Per Job	27794.00
19	Cutting of MS pipe ends by gas cutting		
	a) 150 MM	Per End	28.00
	b) 200 M.M.	Per End	32.00
	c) 300 M.M.	Per End	40.00
	d) 350 M.M.	Per End	44.00
20	Extraction lifting and stacking of MS pipe assembly from failed tube well		
	a) 200 MM dia	Per Mt	120.00
	b) 350/300 MM dia	Per Mt	238.00
21	a) Levelling rig drilling lowering of assembly and taking vertically	Per Job	3553.00
	b) Levelling and placement of pipe extraction machine at site	Per Job	993.00
22	Erection of tents and stacking of allied equipments	Per Job	1985.00
23	Slotting of ERW pipe 1.58 mmx75 mm set of 4 slits with all cost of T&P and labour		
	a) 6" dia pipe	Per 100 slot	152.00
	b) 8" dia pipe	Per 100 slot	152.00
	c) 12" dia pipe	Per 100 slot	183.00
	d) 14" dia pipe	Per 100 slot	221.00
24 (a)	Dry earth work in digging trenches with cutting and dressing if M ³ sides of wall for laying 160/200 mm dia PVC pipe in depth as per approved L section with levelling and aligning the bed by cutting and dressing.	M ³	56.00
(b)	Extra for kankar bajri banjar, black cotton soil or mooram mixed soil, hared card mixed with bajari kankar, or mooram which can be excavated by pick as of crow bar only	M ³	6.00
25	Back filling of treches after laying of PVC pipe and earth filling using sieve upto a depth of 0.25 mtr. Above without sieve and top dressing (50% of earth work digging).	M ³	22.00
26	Laying and aligning PVC pipe 200 mm dia in dug trenches including head load, carriage within T/W compound with water tight excluding cost of solvent cement PVC pipe couplers.	M ³	6.00
27	Laying and aligning PVC pipe 160 mm dia in dug trenches including head load, carriage wihtin T/W compond with water tight excluding cost of solvent cement PVC pipe couplers.	P/M	6.00

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
28	Carrige and fixing PVC Tee/ Reducer/FTP with 200 or 160 mm dia incuding head lead carriage within T./W compound cutting alignment and making wter tight joints.	Each	88.00
29	C/F PVC bends of 160/200mm dia including adjustment to trenches within compound and water making tight joints	Each	124.00
30	a) C/F Nipple and alfa valve (both at outlets within T/W/ command)	Each	198.00
	b) PVC joined cap or cover	Each	53.00
31	Repairing PVC pipe lind and leakage per joint with water tight socked joints including digging and refilling of trench (excluding cost of material)	Per Joint	496.00
32	Repairing FTP joint of feeder ling at stand pipe assembly with water tight joint including digging and back filling (excluding cost of material) of trenches.	Per Joint	276.00
33	Repairing PVC pipe lind and leakage at the Tee junction with water tight Tee joining including digging and back filling (excluding cost of material) of trenches.	Per Joint	631.00
34	Taking out PVC pipe from trenches cleaning of chocked pipe removing of jammed material like mud, sand etc. excluding digging relaying and filling back of material.		
	a) 160 MM dia	P/M	7.00
	b) 200 M.M.dia	P/M	9.00
35	Dewatering of pipe lind loop of T.W.	Job	94.00
36	Welding of M.S. flange of socket in 150 mm dia column pipe of pump set of tube wells.	Per End	171.00
37	Welding of M.S. flange of socket in 2000 mm dia column pipe of pump set of tube wells.	Per End	202.00
38	Welding M.S. cilt size 50x50x5 mm angle of nt ecolumn pipe making clipitcal hole in 12 m dia including cost of material	Each	130.00
39	Labour charges for complete concealed power wiring light wiring and earthing of pumpset with material and labour.	Job	10844.00
(I)	Labour charges only	Job	2858.00
40	Fixing of Grider foundation assembly	Set	171.00
41	Erection and fixing of steel door	Each	250.00
42	Erection and fixing of steel windows	Each	124.00
43	Erection and fixing of ventiltor	Each	72.00
44	Fixing of top girder on pillars	Each	209.00
45	Making notice board on P/H wll including painting cost of material	Each	201.00
46	Supply and Fixing of marble plate of P/H	Each	1107.00
47	Fixing of interlock in the door of pump house including cost of bolt/ Ribits.	Each	143.00
	Repairing of door of P/H filling 2 no. Hazmi lock including cost of material	Job	1953.00
48	Fixing of main hole cover of P/H	Job	72.00

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
49	White washing of P/ House in out surface with in two pillar cost of material.	Job	428.00
50	Colour washing of P/ House in out surface with in two coat with cost of material.	Job	404.00
51	Painting door, Window and ventilator, Notice Board Base Plate with boare delivery pipe including cost of material and labour	Job	1227.00
52	Aligning and fixing of M.S. nipple in Elevated tank	Each	124.00
53	Erection alignment and fixing of 8"/12" dia M.S. pipe stand assembly with elevated tank including cost of rubber packing.	Each	809.00
54	Alignment and fixing of 6" dia meter M.S. pipe delivery assembly align with bends from discharge head to elevated tank including cost of rubber packing etc.	Job	833.00
55	Silt and jungle clearance of tubewell lined guls.	Per Km	596.00
56	Cleaning of syphone including kudi.	Each	186.00
57	Cleaning of head pump or D/ tank and bathing tank	Each	91.00
58	Carriage and fixing of panel frame of angle from frame supplied by the deptt.	Job	428.00
59	Providing adjustable starter frame made slotted angle iron 35x35x3 mm 4 feet long 4 Nos.-2 feet long. Sliding per pendicular arms for fixing starter, main switch.	Per Job	2779.00
60	Providing and fixing kit kat board 35 mm x 30 mm made or 35 mm thick salwood inclusive of four bolts with nut and washer and one nail 50 cm long inclusive labour charges.	Job	453.00
61	Carriage & fixing of header assembly	Job	536.00
62	C/F M.S. header raiser column pipe 8" dia	Job	238.00
63	Cutting of delivery pipe turning facing thereding welding of 3 nos. Flanges with column pipe for fitting header excluding cost of flanges supplied by the deptt.	Job	1429.00
64	Lifting and lowering 1 No. column pipe to install fuse unit and the cable at approximately 2 or 3 meter below the base plate	Per Job	547.00
65	Painting notice board by black paint and writing name in head quarter of section mistry.	Per Job	214.00
66	Taking of pea-gravel from P/H up to cm depth pit washing the pea-gravel screaning and feeding in back in to the bore	Per Job	286.00
67	Removal of mortar brushing and stacking from dismantled lined gul.	%Nos.	1290.50
68	Extra for providing clean water by manual pumping for masonry work (brick work plastering, concreting for construction and curing of pumps house/ elevated tanks outlets and all other masonary work) with in the command of tube well (L, Sl for all the above)	Each Tube well	1290.50
69	Extra for making pit of size 3x3x0.6m for storing water for curing the bricks	Job	156.00

Sl. No.	Name of Item	Unit	Rate in Rs.
1	2	3	4
70	Cutting and threading of MS nipple 150 mm diameter tightening of nipple pipe with NRV drilling 2 nos. 1/2' dia holes in NRV and pipe tapping and fitting bolts and welding two Nos MS flats both sides including cost of bolts and MS flats.	Job	714.00
71	Drilling of 8/8" dia hole in MS/CI flange 150 mm dia	Each	24.00
72	Cutting cable grave in MS flange 150 mm dia	Each	43.00
73	Turning and threading of plane MS flange 150 mm dia	Each	84.00
74	Fitting and electric welding of MS flange on column pipe 150 mm dia	Job	286.00
75	Cutting and threading on column pipe cutting two Nos. Numbers cable groves in each flange. Tightening and welding on column pipe including cost of MS flange 150mm dia	Job	1357.00
76	Cutting and threading of top column pipe tightening of MS flange with top column pipe and fitting with base plate	Each	257.00
77	Providing MS guard ring of 8" dia	Nos	1291.00
78	Providing switch board for stw.	Job	9493.00
79	Repairing of 100 Amp. TP switch including Kit Kat 3 Nos action bar complete with enshield 3 Nos.	1 job	9493.00
80	Drilling of State Tubewell by private drilling machine including cost of POL, operating staff welding charges, consumable items, mud/Bentonit, Miscellaneous tools, Tentage charges dressing and reconditioning of Bit including shifting of machine with all T&P		
(a)	upto 120 meter to 150 meter	Per Mtr.	1935.00
(b)	upto 151meter to 180 meter	Per Mtr.	2068.00
81	Development of state tubewell by Private compressor (300 PSI/800 CFM) including shifting of compressor upto piont POL operation starr, Tantage charges consumable items, including lowering and lifting of air linf upto 150 to 180 meter.	Per hour	3707.00
82	Development of state tubewell by private OP unit with 40 HP submersible pump and required generator including shifting of O.P. unit upto point including cost of P.O.L. operating staff, Tantage charges, consumable items etc.	Per hour	1853.00
83	Collection of Pea gravel (2 to 3.35 m size) for filling in tubewell bores including excavation from quarry with all taxes, royalty and carriage upto nearest pucca road .	M ³	2735.00
84	Repair of air breack starter by replacing damaged/wornout spares i.e. contact coil contact kit, timer assembly and over load relay wiring and fitting and testing on full load incuding cost of all metarial and labour for proper completion of work.	Job	4450.00

Note:

- 1 For item No. 16 to 17 of loading, unloading and local cartage if to be carried out by firm/ contractor 30% extra for pipe and 15% extra rates for socket shall be applicable.
- 2 As per Standing order No. 76 of Chief Engineer, IDUP Approval by concerned Superintending engineer, Tubewell Circle is mandatory for getting machanical work done from outside agency.
- 3 GST has not been included in the above mentioned rates. It will be paid extra as per prevailing Govt Order.
- 4 Rate of Item no. 83 has been revised as per letter no. 06/द्विमसिका/दरअनुमोदन, दिनांक 01.01.2021

PAINTING AND WELDING WORK

STEEL SURFACE

Sr. No.	Particulars	Unit	Rate in Rs.
1	Painting one coat of red Oxide primer on steel surface after sand paboring and cleaning of surface including cost of all materials, labour T&P etc. required for proper completion of wok.	sqm.	66
2	Painting two coat of synthetic enamel paint (Excluding cost of primer) superior quality such as Luxol Higloss, Apcolite, Superlac, Dulux, including cost of all material, labour, T&P etc. required for proper completion of work.	sqm.	98
3	Painting one coat of synthetic enamel paint on old surface with superior quality approved make as mentioned in Item No. 2 including cost of all material, labour, T&P etc. required for proper completion of work.	sqm.	71
WOODEN SURFACE			
4	Painting one coat of wooden primer on new wooden surface including thoroughly cleaning & making smooth surface including cost of all material, labour, T&P etc. required for proper completion of work.	sqm.	67
5	Painting two coat of superior quality of synthetic enamel paint approved make as per item no. 2 on new wooden surface (Excluding cost of primer) including cost of all material, labour, T&P etc. required for proper completion of work.	sqm.	97
6	Same as item No. 5 on old painted surface	sqm	81
7	Same as item No. 6 but for one coat	sqm.	43
8	Continuous welding / Cutting by Electric Plant including Cost of Electrodes.	Rm	7

MINOR LIFT CANAL WORK

1.0 Repairing of Pump.

Sl. No.	Item of work	Unit	Complete Rate in Rs.				
		Cusec	2.5	5	7.5	10	15/20
1.01	Dismantling of top half casing of the pump and taking out rotating	Job.	719	960	1191	1437	1684
1.02	Shifting of pump assembly from barge to canal compound.	Job.	239	599	719	839	1191
1.03	Shifting of rotating assembly i.e. sleeves, neckring, chuck nut,	Job.	719	1191	1437	1679	2158
1.04	Repairing of CI impeller by CI welding of damaged parts, vanes	Job.	1191	1437	1679	1921	2399
1.05	Repairing of impeller welding and finishing.	Job.	2881	4683	4799	6004	9604
1.06	Straightening of impeller shaft.	Job.	960	1921	2399	2642	3362
1.07	Repairing of pump shaft by welding, carriage, shifting, dismantling etc.	Job.	719	960	1191	1437	1679
1.08	Assembling of rotating elements complete by fixing impeller and	Job.	1921	2399	2642	2877	2877
1.09	Assembling of complete pump by fixing rotating elements top cover etc.	Job.	1321	1437	1679	1921	2161
1.10	Coupling bolt with bush work.	Each	362	465	555	600	690

2.0 Repairing of Auto Transformer:

SI. No.	Item of work	Unit	Rate in Rs.		
			75 HP	100 HP	150 HP
1	Repairing of oil immersed ATS starter by dismantling, taking out contacts and coil, cleaning, checking, replacing damaged parts, if any, overload relay setting, assembling, fitting, testing and commissioning including centrifuging of transformer oil (New parts except leads & spare kit supplied by Deptt. Against damages parts.	Job.	29168	35245	37933

3.0 Repairing of Auto Transformer:

SI. No.	Item of work	Unit	60-75 HP	90-110 HP	100-150 HP
			In Rs.	In Rs.	In Rs.
1	Repairing of auto transformer of oil immersed starter by dismantling and taking out burnt copper wire, cleaning by acetone / petrol, rewinding with D.C.C. wire and other insulating materials, making connections, tapping, insulating varnishing and heating complete with cost of materials, except cost of D.C.C. wire which is supplied by Dept. and labour (Burnt D.C.C. Wire will be returned to the Deptt. by the contractor.)	Job.	25161	29348	36190

4.0 Supplying and Fixing of H.R. C. Fuse Type combination fuse unit:

Sr. No.	Item of work	Unit	Labour Rate	Complete Rate
			In Rs.	In Rs.
4	Supplying and fixing of metal T.P. / T.P.N. HRC fuse type combination fuse unit of GEE/LT-LK/Siemens make complete in all respect. 32 Amp. 415	Each	493	9830
4	-----do----- 63 Amp. 415 Volts	Each	493	10905
4	-----do----- 100 Amp. 415 Volts	Each	511	16741
4	-----do----- 200 Amp. 415 Volts	Each	589	23682
4.1	-----do----- 300 Amp. 415 Volts	Each	628	32663
4.1	-----do----- 400 Amp. 415 Volts	Each	1002	40783
4.1	-----do----- 600 Amp. 415 Volts	Each	1940	55633

5.0 Repairing of Sluice Valve -

SI. No.	Item of work	Unit	In Rs.				
			200 mm Dia	300 mm Dia	350 mm Dia	450 mm Dia	600 mm Dia
1	Dismantling from pipe line shifting, disassembling, repairing of valve seat and flapper by welding and grinding, assembling of sluice valve, shifting to barge fitting with pipe line including cost of rubber flange, nut & bolts etc.	Job.	3847	4617	5002	5387	7310
2	Providing and fitting sluice valve spindle rod with nut made of mild steel as per sample.	Job	2245	4483	5387	6731	10096

6. Repairing of Reflex Valve

SI. No.	Item of work	Unit	In Rs.				
			200 mm Dia	300 mm Dia	350 mm Dia	450 mm Dia	600 mm Dia
1	Repairing of reflex valve by dismantling from pipe line, disassembling, repairing of flapper and flapper seat by remetalling, grinding finishing, replacing of nut bolts and R.I. Sheet packing, assembling, fitting with pipe line including loading, unloading and shifting etc.	Job.	3166	8076	11663	15700	20150

7.0 Repairing of Foot valve -

SI. No.	Item of Work	Unit	200 mm Dia	300 mm Dia
			In Rs.	In Rs.
1	Complete repairing of foot valve including dismantling, shifting, carriage, remetaling of flapper seat, providing leather seal, MS Sheet, 5 mm R.I. Sheet, G.M. Pin, nut, bolt etc. testing and fitting at site.	Job.	8039	18482

8.0 Safety and maintenance of Barge and Pipe line during flood period (16/06 to 15/10)

SI. No.	Item of Work	Unit	Rate	Rate
1	Dismantling and reconnection M.S. Pipes for running of pump canal including safety of barge, hose pipe, M.S. Pipe etc. during flood period, excluding cost of materials such as nuts, bolts and gasket etc.	Per cusec per month.	440	482

Note :- In case of general maintenance during rest period 20% of above rate will be applicable with unit per cusec per trip

9.0 Repairing of Delivery pipe line

SI. No.	Item of work	Unit	In Rs.					
			200 mm Dia	300 mm Dia	350 mm Dia	450 mm Dia	600 mm Dia	750-914mm Dia
1	Repairing of delivery pipe line for removing the leakage from joints by dismantling the pipe and taking out the rusted M.S. Bolt by cutting, fixing new rubber gasket, nut, bolt and washer complete in all respect.	Each joints	1198	1849	2166	2519	4856	7100

Note :-

1. The rate includes cost of shifting, cartage, loading, unloading, straightening of flanges, cutting, welding and
2. In case of bolt with nut and gasket are provided by department, cost shall be recovered at department rate.
3. The repairing of leakages will be done only after obtaining prior approval of Executive Engineer.

10.0 Threading / Turning –

Sl. No.	Item of work		Unit	In Rs.				
				10-20 mm ϕ	21-40 mm ϕ	41-100 mm ϕ	101-150 mm ϕ	151 mm F & above
10.01	British / Metric	General	Cm. length	11	13	14	15	15
		For Pump shaft	Cm. length	29	46	78	91	106
10.02	Turning	General	Cm. length	9	11	12	14	15
		For Pump shaft	Cm. length	21	29	46	78	91

Note :-

1. The above rates are only applicable for mild steel, cast iron and gun metal.
2. 20% extra rates are applicable for stainless / high carbon steel.
3. The above rates will be applicable for working length.
 - a) Upto 40 cm length – 100%
 - b) Next 40 cm to 80 cm length – 80%
 - c) Next 80 cm. to above – 60%
4. 100% extra rates will be applicable for square threads.

11.0 Gas Cutting:-

Size of Plates in mm	Unit	Rates in Rs.
5 to 6	RM	113
8	RM	134
10	RM	148
12	RM	157
14	RM	165
16	RM	174
18	RM	180
20	RM	188
22	RM	197
25	RM	206

Note :-50% extra for edge

12.0 Electric arc welding:

Thickness of job in mm	Unit	Rates in Rs.
3 to 4	RM	86
5 to 6	RM	116
8	RM	177
10	RM	190
12	RM	252
14	RM	259
16	RM	407
18	RM	538
20	RM	608
22	RM	719
25	RM	785
28 mm and above	RM	808

Note :

1. Rates for welding have been provided for but joint only.
2. 100% extra rate will be payable for lap joint.
3. Only ISI marked electrodes will be used.

13.0 Cast iron welding with ISI marked Electrodes (non-machinable)

Thickness of job in mm	Unit	Rates Rs.
3 to 4	RM	193
5 to 6	RM	259
7 to 8	RM	403
9 to 10	RM	441
11 to 12	RM	573
13 to 14	RM	847
15 to 16	RM	960
17 to 18	RM	1305
19 to 20	RM	1428
21 to 22	RM	1635
23 to 25	RM	1820
26 mm and above	RM	1879

14.0 Machinable welding with ISI Marked special alloy electrode for re-metalling of shaft.

Diameter of shaft in mm	Unit	Rates in Rs.
0-25	RM	282
26-50	RM	564
51-75	RM	847
76-100	RM	1128
101-125	RM	1407
126-150	RM	1689
151-175	RM	1971
176-200	RM	2255
201-250	RM	2536
251-300	RM	2818

Note :-

1. Above rates are applicable for 3 mm thick single layer welding. In case of
2. Extra for handling, lifting and rotating etc. of equipment of at working site
 - a) Up to 1.0 MT - 10%
 - b) Above 1.0 MT and upto 3 MT - 15%
 - c) Above 3 MT - 20%

15.0 Driling Holes

S.N o.	Size of Plate in mm	Unit	Complete Rate (Rs.)						
			5 mm to 10 mm	11 mm to 15 mm	16 mm to 20 mm	21 mm to 25 mm	26 mm to 30 mm	31 mm to 35 mm	36 mm to 40 mm
1	5	Each	11	15	21	27	34	42	51
2	6	Each	12	18	24	31	39	48	54
3	8	Each	17	22	28	38	46	53	63
4	10	Each	22	28	35	44	56	65	73
5	12	Each	28	35	43	43	64	74	81
6	14	Each	35	43	51	59	70	82	91
7	16	Each	41	51	58	70	72	91	97
8	18	Each	48	57	66	78	93	101	111
9	20	Each	53	63	77	86	99	110	122
10	22	Each	59	69	81	93	109	122	132
11	25	Each	69	78	91	106	122	133	144
12	28	Each	74	90	102	119	135	149	158
13	32	Each	85	104	112	135	157	171	193
14	36	Each	105	120	135	165	171	189	201
15	40	Each	112	130	148	168	188	207	217

Note : The above rates will be applicable as following :-

1. Upto 10 numbers 100% of above rate.
2. 11 to 20 numbers 80% of above rate.
3. 21 and above numbers 60% of above rate.

16.0 Percentage of wastage and scrap in fabrication.

SI. No.	Item of works	Percentage of wastage	Percentage of scrap.
22.01	Flange	3%	30%
16.02	Symphonic bend or reducing bend	2%	15%
16.03	Expander or reducer	2%	10%
16.04	Pipes and Nipples	1%	2%
16.05	Other Small Fabrications.	2%	3%

17. Supply and laying of G.C. Sheet

SI. No.	Item of works	Unit	Rate in Rs.
	Supply and laying of galvanized corrugated iron roofing 24 S.W.G. including cutting and punching with cost of washer, rivet, bolt and nut, labour, T&P etc. required for proper completion of work, but excluding cost of trusses flat iron etc.	Sq. m.	1100

18.0 Providing & Fixing of Flood Light –

SI. No.	Item Item of works	Unit	Complete Rate	Labour rate in Rs.
	Providing & Fixing of flood light luminary for 500 watt complete with glass and gasket etc. (450 mm diameter)	Each	6820	226

18.01 Repairing OF V.C.B.				
SI. No.	Item Item of works	Unit	Complete Rate	Labour rate in Rs.
A	Repairing of VCB of incoming/outgoing panel by taking out type trolley for its smooth operation by dismantling, Cleaning, replacing worn out levers Bushings nuts and Bolts pins rivets etc. as required and oiling/lubricating for smooth operation assembling setting and testing on no load (cost of contacts are not included).	Per Job		26716
B	Repairing of VCB of incoming/outgoing panel by taking out trolley and dismantling worn out damaged male spout replacing and fitting new spout setting assembling and testing on no load.	Per Job	14228	4371
C	Repairing of VCB of incoming/outgoing panel by taking out trolley and dismantling worn out damaged female spout replacing and fitting new spout setting assembling and testing on no load.	Per Job	15108	3060
D	Repairing of VCB of incoming/outgoing panel by taking out trolley and dismantling worn out damaged Vacuum bottle, replacing and fitting new spout setting assembling and testing on no load.	Per Job	66574	5250

18.02 Repairing OF L.T. Transformer 200 - 500 KVA						
A	Dismantling primary secondary H.T./L.T. cable from each terminal, again dismantling L.T. 200-500 K.V.A. from stand and keeping it on P/H floor opening top cover plate for checking defect for open circuit. Short circuit and I.R. value test Then drain out Transformer oil centrifusing T/oil upto required temperature after rewinding fitting core assy in tank filling T/F oil upto top level and welding top cover also replacing and fitting H.T./L.T. bushing with body complete erection T./F 200-500 KVA stand and testing in L.T. supply for I.R. value open short circuit ten gradually on full load complete in all respect. Rate including all labour T&P etc.			Per Job		135547
18.03						
A	Supply and fixing mounting LED square fitting for Amatrang ceiling having Powder coated die Cast Alluminium housing bod with extender heat sink and complete in all respect.					
(i)	36-46 watt above 3300 lumen	CAT-AAA	Each	7350	125	
		CAT-AA	Each	6640	125	
		CAT-A	Each	5830	125	
(ii)	55 watt indoor recess	CAT-AAA	Each	10790	125	
		CAT-AA	Each			
		CAT-A	Each			

19. Moulding of Spare parts of equipment / machines (cast iron & bronze spares) :

Sl. No.	Item of work	Unit (on basis of net weight of finished Spares)	Complete Rate		Labour Rate in Rs.	
			GM/Copper Bronze IS 318 Gr-2 Spares	C.L.I.S. 210 Gr. F.G. 20 Spares	GM/Copper Bronze IS 318 Gr-2 Spares	C.L.I.S. 210 Gr. F.G.20 Spares
19.01	Moulding, turning and finishing to proper size as per drawing and specification of : Glands/ Sleeve / Chuck nut / Journal bearing without metal etc.	Per Kg.	1160	256	318	148
19.02	-do- Oil ring / Logging ring / Lantern ring / Cable glands / Neck ring	Per Kg.	1346	321	518	207

Note :-

Burning / Wastage allowance for GM / copper Bronze and Cast iron for Casting / Turning.

	<u>Copper / GM/Bronze</u>	<u>Cast Iron</u>
1. Maximum burning allowance	5%	10%
2. Maximum wastage allowance	5%	10%
3. Material to be issued for casting (in addition to original weight of spare)	25% to 30% extra by weight	-
4. Scrap material to be returned back to Department store	15% to 20%	0.0%
5. Cost of GM Scrap will be recovered @ 328.00 per Kg.		
6. Cost of CI/SM Scrap will be recovered @ 26.00 Per Kg.		
7. Burning/wastage allowance only applicable when the material is issued by the department.		

20.0 Scrapping of existing channel of canal :

Sl. No.	Item of work	Unit	Rate in Rs.
1	Scrapping Internal Section of existing channel including cutting & filling up to 8 cm &	Sq.m.	5

General Note for Electrical & Mechanical Items-

- In case of electrical items PWD Schedule will be applicable where department schedule is not available.
Above rates will be applicable up to 8 km from district Head quarter beyond 8 Km. from
- District Head Quarter. 10% extra on Labour rates will be permissible for lift pump canals only.
- Works pertaining to repair and maintenance of Lift Pump Canal will be carried out after prior approval of Executive Engineer Concerned.

PUMP CANAL WORK

Sl. No.	Item of work	Unit	Rate in Rs.
1	Loading pump motor, valve panels, capacitor and other equipments (Single Unit)		
	Range		
	a) Upto 250 Kgs.	M.T.	149
	b) Additional 251 to 500 Kg.	M.T.	303
	c) – do – 501 to 100 Kg.	M.T.	474
	d) – do – 1001 to 3000 Kg.	M.T.	646
	e) 3001 to 6000 Kg.	M.T.	712
	f) – do – 6001 to above	M.T.	777
	<u>Fabricated Steel Structure:</u>		
	a) Upto 250 Kgs.	M.T.	116
	b) Additional 251 to 500 Kg.	M.T.	237
	c) – do – 501 to 100 Kg.	M.T.	365
	d) – do – 1001 to 3000 Kg.	M.T.	483
	e) 3001 to 6000 Kg.	M.T.	539
	f) – do – 6001 to above	M.T.	602

Note:–

- 1- For unloading of material, 80% of the above rate shall be applicable.
- 2- The Rates are Applicable for loading / unloading from Truck/Trailer.
- 3- For Unloading from wagon, 120% of the above rates shall be applicable.
- 4- The Rates shall apply only when Department EOT Crane is not used, If used, These rates shall be 60% for loading & unloading both.

Sl. No.	Item of work	Unit	Rate in Rs.
2	Erection charges for pump, Motor, Valves Panels, capacitors, pipes and other equipments and Fabricated Structures. (Single Units)	Unit	Rate in Rs.
	a) Upto 250 Kg.	Kg.	16
	b) Additional 251 to 500 Kg.	Kg.	15
	c) – do – 501 to 1000 Kg.	Kg.	14
	d) – do – 1001 to 3000 Kg.	Kg.	12
	e) 3001 to 6000 Kg.	Kg.	10
	f) - do- 6001 to above	Kg.	8

Note:–

- 1- Erection shall include shifting within 50 Mtrs. Only including cartage, loading, unloading
- 2- 40% of above rates shall be applicable in dismantling cases.
- 3- In case bolts with nuts and gaskets are provided by department, its cost shall be recovered at department rates.
- 4- 30% extra rate shall be applicable in case of pipe line.
- 5- 20% extra when department crane is not available.

3- Shifting of pumps, motors, valves, panels' pipes and other equipments and fabricated structures (single Unit).			
Sl. No.	Item of work	Unit	Rate in Rs.
1	a) Upto 4 Meter	Meter / M.T.	67
2	b) Additional 5 to 10 M.	Meter / M.T.	56
3	c) – do – 11 to 40 M.	Meter / M.T.	39
4	d) – do – 41 to above	Meter / M.T.	29

Note –

- 1- For cylindrical items the rate shall be only 25% of above.
- 2- The rates are applicable only to the equipment and structures whose weight is 1.0 MT or above as single unit.
- 3- 10% extra for ascending load.
- 4- 10% less for descending load.
- 5- The rate shall be applicable for net weight of equipment.

4- Fabrication			
Sl. No.	Item of work	Unit	Rate in Rs.
1	Bending (Rolling)		
2	a) Upto 1000 mm dia	Kg.	11
3	b) Above 1000 mm dia	Kg.	9

Note –

- 1- In case of expander / Reducer etc. 50% extra shall be payable on lower diameter of the items.
- 2- 5% extra for matching face, shall be paid for plate 12mm thick and higher size.

Sl. No.	Item of work	Unit	Rate In Rs.	
			General	For Pump Shaft
5-	Threading British / Metric Threading			
	a) 10 mm to 20 mm dia	C.M.	11	29
	b) 21 mm to 40 mm dia	C.M.	13	45
	c) 41 mm to 100 mm dia	C.M.	14	77
	d) 101 mm to 150 mm dia	C.M.	15	91
	e) 151 mm to above	C.M.	15	105
6-	Turning			
	a) 10 mm to 20 mm dia	C.M.	9	20
	b) 21 mm to 40 mm dia	C.M.	11	29
	c) 41 mm to 100 mm dia	C.M.	12	45
	d) 101 mm to 150 mm dia	C.M.	14	77
	e) 151 mm to above	C.M.	15	91

Note :

- 1) The above rates are applicable for mild steel, cast iron and gun metal only.
- 2) 20% extra for stainless steel and high and carbon steel.
- 3) The above rates shall be applicable for working length.
 - a. upto 40 cm length 100%
 - b. Next 40 cm to 80 length 80%
 - c. Next 80 cm to above 60 %
- 4) For square Threads 100% extra rates will be applicable.
- 5) Take 20% less for subsequent turning when job is already on lathe M/c.

7-	Gas Cutting :	Unit	Rate in Rs.
	a) 5 mm to 6 mm	R.M.	113
	b) 8 mm	R.M.	133
	c) 10 mm	R.M.	148
	d) 12 mm	R.M.	157
	e) 14 mm	R.M.	165
	f) 16 mm	R.M.	175
	g) 18 mm	R.M.	179
	h) 20 mm	R.M.	188
	i) 22 mm	R.M.	196
	j) 25 mm	R.M.	205

Note :

- 1- 50% extra for edge preparation shall be payable for plates 12 mm thick and higher size.

8-	Electric arc welding for following thickness of jobs	Unit	Rate in Rs.
	a) 3 mm to 4 mm	R.M.	87
	b) 5 mm to 6 mm	R.M.	116
	c) 8 mm	R.M.	177
	d) 10 mm	R.M.	191
	e) 12 mm	R.M.	252
	f) 14 mm	R.M.	359
	g) 16 mm	R.M.	407
	h) 18 mm	R.M.	538
	i) 20 mm	R.M.	608
	j) 22 mm	R.M.	719
	k) 25 mm	R.M.	776
	l) 28 mm and above	R.M.	1043

Note :

- 1- Rate for welding are for butt joint only.
- 2- 100% extra rate shall be payable for lap joint.
- 3- Only I.S.I. marked welding electrodes shall be used.

9-	Cast Iron Welding with I.S.I. marked electrodes non machinable for following thickness of jobs.	Unit	Rate In Rs.
	a) 3 mm to 4 mm	R.M.	193
	b) 4 mm to 6 mm	R.M.	259
	c) 6 mm to 8 mm	R.M.	403
	d) 8 mm to 10 mm	R.M.	441
	e) 10 mm to 12 mm	R.M.	573
	f) 12 mm to 14 mm	R.M.	847
	g) 14 mm to 16 mm	R.M.	960
	h) 16 mm to 18 mm	R.M.	1305
	i) 18 mm to 20 mm	R.M.	1428
	j) 20 mm to 22 mm	R.M.	1635
	k) 22 mm to 25 mm	R.M.	1820
	l) 25 mm and above	R.M.	1879

10-	Machinable welding with I.S.I. Marked special alloy electrode for Rebuilding shaft.	Unit	Rate in Rs.
a)	0 to 25 mm dia	Per C.M.	282
b)	26 to 50 mm dia	Per C.M.	564
c)	51 to 75 mm dia	Per C.M.	848
d)	76 mm to 100 mm	Per C.M.	1128
e)	101 to 125mm dia	Per C.M.	1407
f)	126 to 150mm dia	Per C.M.	1689
g)	151 to 175 mm dia	Per C.M.	1971
h)	176 to 200 mm dia	Per C.M.	2255
i)	201 mm to 250 mm dia	Per C.M.	2536
j)	251 mm to 300 mm dia	Per C.M.	2818
k)	301 mm dia to above	Per C.M.	3100

Note :

- 1- Above rates are applicable for 3mm thick single layer welding only. In
- 2- Extra for handling lifting and rotating etc. of equipment at working site
 - a) Upto 1 M.T. - 10%
 - b) Above 1 M.T. and upto 3 M.T. - 15%
 - c) Above 3 M.T. - 20%

11- Drilling Holes :									
No.	Size of Plate	Unit	Rates in Rs.						
			5mm to 10mm	11mm to 15mm	16mm to 20mm	21mm to 25mm	26mm to 30mm	31mm to 35mm	36mm to 40mm
a)	5mm	Per C.M.	11	15	21	27	34	42	51
b)	6 mm	Per C.M.	12	18	24	31	39	48	54
c)	8 mm	Per C.M.	17	22	28	38	46	53	63
d)	10 mm	Per C.M.	22	28	35	44	56	65	73
e)	12 mm	Per C.M.	28	35	43	53	64	74	81
f)	14 mm	Per C.M.	35	43	51	59	70	82	91
g)	16 mm	Per C.M.	41	51	58	70	83	91	97
h)	18 mm	Per C.M.	48	57	66	78	93	101	111
i)	20 mm	Per C.M.	53	63	77	86	99	110	122
j)	22 mm	Per C.M.	59	69	81	93	109	122	132
k)	25 mm	Per C.M.	69	78	91	106	122	133	144
l)	28 mm	Per C.M.	74	90	102	119	135	149	158
m)	32 mm	Per C.M.	85	104	112	135	157	171	193
n)	36 mm	Per C.M.	105	120	135	165	171	189	201
o)	40 mm	Per C.M.	112	130	148	168	188	207	217

Note : The above rates shall be applicable by following percentage –

- 1- Upto 10 Nos. 100% of above rate.
- 2- 11 to 20 Nos. 80% of above rate.
- 3- 21 and above Nos. 60% of above

ELECTRICAL ITEMS :

Sl. No.	Item of Work	Unit	Labour Rate	Comp. Rate in Rs.
1-	Wiring points in batten with PVC insulated and P.V.C. sheathed on T.F.S. cable			
a)	Writing points for light fan with 1.5 sq. mm PVC insulated and P.V.C. sheathed T.R.S. single core cable with 1.5 Sq. mm PVC insulated T.R.S. single core cable Earth continuity of teak wood batten and surface type switch etc. complete in all respect.	Each	108	550
b)	Wiring points for H.P.M.V. lamp with 2.5 Sq. mm PVC insulated and P.V.C. sheathed T.R.S. single core cable on teak wood batton and 15A, metal clad S.P.N. switch etc., complete in all respect.	Each	194	1051
c)	Extra for item no. 13 with wiring points for rigid ceiling, in heavy gauge brick, steel conduit pipe laid in slab along with reinforcement before concreting including 75mm, deep junction box etc. complete in all respect.	Each	83	83
2-	Wiring point in support conduit			
a)	Wiring point for light and fan with 15 mm P.V.C. / V.I.R insulated single core cable in heavy gauge rigid steel conduit pipe on surface complete with 8 SWG G.I. earth continuity wire and piano type switch etc. complete in all respect.	Each	152	813
b)	Wiring point for H.P.M.V. / H.P.S.V. Lamp with 2.5 Sq. mm P.V.C. / V.I.R. insulated single core cable in heavy rigid steel conduit pipe on surface complete with 8 SWG G.I. earth continuity wire with 15 Amp. metal clad / S.P.N. Switch etc. complete in all respect.	Each	197	1366
Note:	For plug point the rate will be allowed 50% of light and fan rate in both the cases.			

3-	Switches and Distribution boards (Rewireable type Switches (S.P.N.) and D.P.)	Unit	Labour Rate in Rs.	Comp. Rate in Rs.
(a)	Supplying and fixing of 16A 240V D.P. metal clad Rewirable type switch fuse unit on teak wood board complete in all respect.	Each	88	808
(b)	Supply and fixing of 32A, 240V D.P Metal clad rewirable type switch fuse unit on teak wood board complete in all respect.	Each	118	1360
4-	Rewirable type switches T.P. and T.P.N.	Unit	Labour Rate in Rs.	Comp. Rate in Rs.
(a)	Supplying and fixing of 16A, 415V. metal clad T.P.N. rewirable type switch fuse unit on teak wood board complete in all respect.	Each	391	2336
(b)	Supplying and fixing of 63A, 415V. metal clad T.P.N. rewirable type switch fuse unit on teak wood board complete in all respect.	Each	431	2857
(c)	Supplying and fixing of 63A, 415V. metal clad T.P.N. rewirable type switch fuse unit on angle iron frame complete in all respect.	Each	469	4930
5-	H.R.C. Fuse type combination fuse unit T.P. / T.P.N.C.			
S.No.	Item	Unit	Labour Rate in Rs.	Comp. Rate in Rs.
(i)	Supplying and fixing of 32A, 415V metal clad T.P.H.R.C-type switch fuse unit of EE/L.T./L.K./Siemens / Havells make complete in all respect.	Each	483	10615
(ii)	--do – 63A, 415V.	Each	511	16740
(iii)	--do – 100A, 415V.	Each	589	23682
(iv)	--do – 200A, 415V	Each	628	32663
(v)	--do – 300A, 415V	Each	1002	40782
(vi)	--do – 400A, 415V	Each	1940	55633
(vii)	--do – 600A, 415V	Each	0	0

6-	Flourcent tube light fitting	Unit	Labour Rate in Rs.	Comp. Rate in Rs.
(a)	Supplying and fixing factory wired H.P.F. box type flourcent tube light fitting suitable for 1 x 40 watt flourcent tube complete including tube etc. on surface complete in all respect of Philips/ Bajaj/ Havells / Crompt. Make.	Each	95	5492
(b)	--do-- for 2 x 40W with florecent tube.	Each	124	2923
(c)	Supplying and fixing of factory wired H.P.F. street light florcent tube fitting suitable for 1 x 40 watt florcent tube etc. on G.I. Bracket complete in all respect of Philips / Bajaj / Crompton / Havells make.	Each	319	5635
(d)	Supplying and fixing of factory wired H.P.F. cut off type street light lantern complete with moulded arcylic cover, internal control gear, 250 watt. H.P. MV lamp and G.I. pipe bracket etc. complete in all respect of Philips / Bajaj / Crompton / Havells make.	Each	316	17457
(e)	Supplying and fixing of factory wired H.P.F. cut off type street light lantern complete with moulded arcylic cover, internal control gear, 250 watt. H.P. SV lamp and G.I. Pipe bracket etc. complete in all respect of Philips / Bajaj / Crompton / Havells make.	Each	335	24204

7- Cable laying:						
	Supplying and laying of Aluminum conductor PVC sheathed cable 1100 Volts grouting with MS clamps of suitable size as directed by Engineer-in-charge complete in all respect All mounting shall be properly connected with earth conductor by clamps but excluding cost of cable tray.			Unit	Labour Rate in Rs.	Comp. Rate in Rs.
a	04-Jun	Sq. mm	-do-	Meter	99	349
b	07-Oct	”	-do-	”	99	381
c	Nov-16	”	-do-	”	106	483
d	17-25	”	-do-	”	108	527
e	26-35	”	-do-	”	116	764
f	36-50	”	-do-	”	124	794
g	51-70	”	-do-	”	138	1022
h	71-95	”	-do-	”	157	1258
i	96-120	”	-do-	”	167	1391
j	121-150	”	-do-	”	195	1614
k	151-185	”	-do-	”	236	1905
l	186-225	”	-do-	”	256	2285
m	226-240	”	-do-	”	274	1298
n	241-300	”	-do-	”	298	2773
o	301-400	”	-do-	”	316	3755
p	401-630	”	-do-	”	1287	6435

8-	Cable Jointing	Unit	In Rs.			
			Panel/ Motor	Straight joints including cable Box	Outdoor connection including cable box	Indoor connection including cable box etc.
1-	Jointing of HTXLPE 3 Core cable with cost of lugs, crimping including end termination, tapping, connection etc. and rejoining, if required after trail and testing (excluding cost of Cable)					
(a)	3x50mm cable	No.	2374	11886	12836	13863
(b)	3x70mm ² cable	No.	2572	13074	14120	15250
(c)	3x95mm ² cable	No.	2673	14858	16046	17330
(d)	3x120mm ² cable	No.	2774	17829	19254	20795
	3x150mm ² cable					
(e)	3x185mm ² cable	No.	3012	19808	21391	23103
	3x240mm ² cable					
(f)	3x300mm ² cable	No.	3209	21791	23534	25417
	3x400mm ² cable					
2	Jointing of L.T. 3 Core PVC Cable with cost of Lugs, Crimping including end termination, tapping, connection etc. rejoining, if required, after testing and trail on load.					
(a)	3x50mm cable	No.	1239	4131	5589	-
(b)	3x70mm ² cable	No.	1338	4961	6710	-
(c)	3x95mm ² cable	No.	1532	6871	9293	-
(d)	3x120mm ² cable	No.	1722	8677	11739	-
	3x150mm ² cable					
(e)	3x185mm ² cable	No.	1915	10385	12899	-
	3x240mm ² cable					
(f)	3x300mm ² cable	No.	2105	12402	15909	-
	3x400mm ² cable					

S. No.	Item	Unit	Comp. Rate in Rs.	Labour Rate in Rs.	Labour Rate in Rs.
9	Fixing of flood light luminaire for GLS 500 watt complete with glass & Gasket etc. (450mm diameter)	Each	6820	226	226

S. No	Items of Work	Unit	HPMV			HPSV				Flood Light 450 W and 500W	Street Light 40W
			In Rs.			In Rs.					
			125 W	250 W	400 W	80/70W	150/125 W	250 W	400 W		
10	Repairing of Flourcent/ Lu-minares fitting by opening replacing spares, fitting etc.										
1	Labour Charges	Each	200	200	200	200	200	200	200	61	78
2	Lamp	"	1032	2680	3914	3582	4943	5560	5740	93	206
3	Ballast	"	3605	3734	5357	2896	4323	5767	6077	.	532
4	Condenser/ Starter	"	927	1444	1648	1284	1444	1648	1731	.	73
5	Holder	"	371	371	371	371	371	371	531	371	44
6	Acrylic Cover/Incl. Cover	"	1029	1232	1440	1615	1335	1444	1520	.	.
7	Ignitor	"	.	.	.	2473	2473	2473	2473	.	.

11-	Pump Set	Unit	Complete Rate		Labour Rate	
			For 60/40 Cusec Pumps	For 150/120 Cusec Pumps	For 60/40 Cusec Pumps	For 150/120 Cusec Pumps
	Horizontal Split Casing Pumps:					
1	Dismantling of Top half casing of Pump.	No.	-	-	1656	2151
2	Dismantling of rotating element i.e. taking out impeller, sleeves, bushes, nuts etc.	Job	-	-	6188	7731
3	Repairing of C.I. Impellar by C.I. welding on damaged vanes and finishing to achieve proper profile	Each Vane	-	-	2299	3621
4	Repairing of Impeller neck by turning and finishing on both sides.	Job	-	-	6590	8213
5	Assembly of Rotating elements complete by fixing impeller sleeves, nuts, bushes etc.	Job	-	-	7911	9907
6	Assembly of complete pump by fixing Rotating elements, top cover etc. bolting, including cost of packing etc. (excluding cost of T&P)	Job	-	-	3546	4534

Horizontal Split Casing pumps

S. No.	Item of work	Unit	In Rs.				
			60 Cusec Kirloskar	60 Cusec M & P Jyoti	150 Cusec Jyoti	150 Cusec M & P	150 Cusec Kirloskar
7	Manufacturing of casing stud/coupling bolt with nut, rubber bushes etc. for pumps as per drawing.	Job	60 Cusec Kirloskar	60 Cusec M & P Jyoti	150 Cusec Jyoti	150 Cusec M & P	150 Cusec Kirloskar
(i)	Carbon steel (Grade – C-40) Coupling bolt with nut,	M&P-14 KBL-10 Jyoti	1800	666	986	986	986
(ii)	Rubber bushes (Set for One Bolt)	-	156	156	274	274	274
(iii)	M.S. Casing stud with nut	-	322	322	646	646	646
(iv)	G.M. Bush for casing stud	-	-	813	-	-	-

S. No.	Item of work	Unit	Complete Rate in Rs.		Labour Rate in
			60 Cusec	150 Cusec	
8.1	Repairing of bearing housing including dismantling of casing carriage from site to workshop and back welding by C.I. Machinable welding electrodes including machining and assembling of Pump.	Job	18433	22119	

S. No.	Item of Work	Unit	Complete Rate in Rs.		Labour Rate in Rs.	
			For 60/40 Cusec Pumps	For 150/120 Cusec Pumps	For 60/40 Cusec Pumps	For 150/120 Cusec Pumps
8.2	Repairing of Key way in Shaft	Job	1932	2634		
8.3	Repairing of Keyway in Impellar	Job	2122	2628		
8.4	Alignment of Pump with Motor, radially and axially both using S.S. Shims, Rubber coupling bushes etc. as required	Job	11114	11889		
8.5	Making new key as per sample	Job	1206	1428	-	-
8.6	Making M.S. Bearing Nut and washer	Job	966	1098	-	-
9	Old Items: Repairing of pump shaft, including carriage from site to workshop and back welding with low heat electrode at journal portions, machining and facing to size	Job	12360	20601	-	-
10	Taking out bearing, cleaning, Degreasing, Making threads on shaft, providing and fixing of New G.M. Lock nut with washer, assembling of shaft alongwith bearing alignment etc.					
(i)	Driving End (DE)				11622	17379
(ii)	Non Driving End (NDE)				6659	10139
<p>Note :</p> <p>1. The Rate at Sl. No. 11(3) and 11(9) will not be applicable where complete Refurbishment of</p> <p>2. Labour charge for replacing new bearing shall only be 10% of its cost.</p>						

S. No.	Item of Work	Unit	Complete Rate in Rs.		
			100-500	501-899	900 KW and
12-	Preventive maintenance testing and checking of Squirrel cage, 3 phase induction type H.T. Motors as under.				
(a)	Shifting of Motor from foundation to working place, dismantling by taking out rotar from startor, checking bearing, cleaning stator with overhead braiding and drying it by heating upto completion.	Job	6604	7132	8323
(b)	Tightening of loose wedge by rewedging with H.G.L. Packers O/S alongwith patch work with suitable insulating materials and Laying of coil spacers by polyster chord of suitable size.				
	For Loose wedges 0-20%	Job	22305	24089	25236
	21-40%	-	26999	29159	30351
	41-60%	-	31694	34231	35421
	61-80%	-	35229	38048	40490
(c)	Spray varnishing of H.T. Stator and Rotar with insulating varnish i.e. Bactol Red/Grays Jel epoxy Resing Reheating to required dryness & I.R. Value.	Job	11912	17716	20193
(d)	Checking of Rotor by Dye Penetration test to check cracks in rotor bars.	Job	4403	4756	5943
(e)	Reassembly of Motor, shifting from working place to foundation, installation and testing on no load.	Job	11886	12837	13910
(f)	Alignment of motor with pump Radially and axially both by using S.S. Shims, Rubber Coupling bushes etc. as required ad then testing on No Load.	Job	10894	11764	13910

S. No.	Item of Work	Unit	Complete Rate in Rs.		
			100-500 KW. Mot.	501-899 KW Mot.	900 KW and above Motors
(g)	Taking out bearing, cleaning, degreasing making threads on shaft providing G.M. Lock nut, washer, assembly,	Job	Labour Rate		
				501 -899 KW Motor	900 KW Mot. and above
-1	Driving End. (DE)	Job	-	12195	16712
-2	Non Driving End (NDE)	Job	-	6402	9747
(h)	Replacing motor service Connection lead (Copper) including end connections	No.	-	1623	2088
(i)	Taking out bearing cleaning, degreasing, greasing, assembling and alignment including cost of superior quality of grease.	Job	-	7703	10459
-1	Driving End. (DE)	Job	-	4006	6106
-2	Non Driving End (NDE)	Job	-		

Note: 1- Labour charge for replacing new bearing shall be only 10% of bearing cost.

13- Rewinding of squirrel cage-3 phase induction L.T. Motor its testing and checking							
S. No.	Name of Work	Unit	Complete Rate in Rs.				
			3 H.P.	5 H.P.	7.5 H.P.	10 H.P.	15 H.P.
1	Dismantling, cleaning, heating Varnishing, Reheating and fitting including cost of Dr. Beck Varnish etc.	Job	1020	1164	1534	2089	3094
2	Rewinding of squirrel cage induction L.T. Motor (Horizontal -type) by dismantling, taking out burnt wire, rewinding with new S.E.C. wire and other insulating material. Making connection tapping, insulating, varnishing and heating complete with cost of material and labour.						
(a)	Excluding Cost of copper wire.	Job	5499	7074	7990	9060	11515
(b)	Including cost of copper wire, when burnt copper wire will be used by contractor.	Job	6349	11334	18741	25996	34899
3	Dismantling, shifting repairing, Reshifting, fitting & testing.	Job	610	651	831	865	-
Note: Burnt copper wire in item No. 2(a) shall be returned to be deptt.							
	Name	Unit	20 HP	25-30HP	40-50HP	60-75HP	
4	Dismantling, cleaning heating, varnishing, reheating and fitting including cost of Dr. Beck Varnish etc.	Job	4237	4934	7898	9591	
5	Rewind of squirrel cage induction L.T. Motor (Horizontal Type) by dismantling, taking out burnt copper wire, re-winding with new S.E.C. wire and other insulating material, making connection, tapping, insulating. Varnishing and heating complete with cost of material and labour.						
(a)	Excluding cost of copper wire.	Job	11160	13372	22563	26747	
(b)	Including cost of copper wire, when burnt copper wire will be used by contractor.	Job.	35833	37551			
(c)	Dismantling, Shifting Repairing, Resifting, Fitting and testing.	Job.	1043	1101	1274	1417	
Note: Burnt copper wire in item no. 5(a) shall be returned to the deptt.							

Rewinding of squirrel cage -3 phase induction LT. Motor its testing and checking

S.No.	Name of work	Unit	Complete Rate in Rs.		
			90-110 H.P.	125-150 H.P.	200-250 H.P.
6	Dismantling, cleaning heating, varnishing, reheating and fitting including cost of Dr. Beck Varnish etc.	Job.	9601	10959	13573
7	Rewinding of squirrel cage induction L.T. Motor (Horizontal type) by dismantling, taking out burnt copper wire- re- winding with new S.E.C. wire and other insulating material, making connection, tapping, insulating, Varnishing and heating complete with cost of material and labour.				
(a)	Excluding cost of copper wire.	Job.	28296	39260	93212
9	Dismantling, shifting repairing, re-shifting fitting and testing.	Job.	1295	1727	2589

S. No	Item of Work	Unit	3.3 – 6.60 KV		11 KV	
			Complete Rate in Rs.	Labour Rate in Rs.	Complete Rate in Rs.	Labour Rate in Rs.
14	Repairing of O.C.B.					
1	Repairing of O.C.B. of Incoming/ Out going panel by taking out trolley, removing old transformer oil, cleaning and refilling of Transformer Oil after proper centrifuging. Assembling and setting of trolley in the panel.	Job.	15480	7441	20838	9908
2	Repairing of O.C.B. of Incoming / Outgoing panel by taking out trolley, replacing damaged male contacts, setting assembling, fitting and testing of O.C.B. at site.	Job.	19777	4961	26789	6606
3	Repairing of O.C.B. of Incoming / Outgoing panel by taking out trolley, replacing damaged Female contacts, setting assembling, fitting and testing of O.C.B. at site.	Job.	20637	4961	25646	6606
4	Repairing of O.C.B. of Incoming / Outgoing panel by taking out trolley, by providing and fitting crank assembly, I setting assembling and testing at site.	Job.	20423	4961	26818	6606

5	Repairing of L.T. Panel by dismantling, taking out block and coils, cleaning checking, replacing damaged Air Break contacts & over load relay, setting, assembling, fitting testing and commissioning.	In Rs.						
		5 H.P. L.T. Motor	7.5 H.P. L.T. Motor	10 H.P. L.T. Motor	15 H.P. L.T. Motor	20 H.P. L.T. Motor	25 H.P. L.T. Motor	120 H.P. and above L.T. Motor
		4836	5273	5712	7617	9389	10847	47398

15. Moulding, Turning and Finishing:-

S. No.	Item of Work	Unit	Complete Rate in Rs.		Labour Rate in Rs.	
			GM/Copper Bronze IS: 318 Gr. 2 Spares.	C.I.I.S. 210 Gr. F.C. 20 Spares.	GM/Copper per Bronze IS: 318 Gr. 2	C.I.I.S. 210 Gr. F.C. 20 Spares.
1	Moulding Turning and finishing to proper size as per Drawing & specifications of spare parts of equipments / machines (Cast Iron and Bronze Spares).					
(a)	Glands/ Sleeve / Journal bearing without white metal / chuck nut etc.	Per Kg.	1160	256	318	148
(b)	Oil ring / Logging ring / Lantern ring / Cable glands / Neck Ring.	Per Kg	1346	320	518	206

S. No.	Burning / Wastage Allowance	Copper / GM/ Bronze	CI
1	Maximum Burring Allowance	5%	10%
2	Maximum wastage allowance	5%	10%
3	Material to be issued for casting (in addition to original weight of spare)	25% to 30%	Extra by weight
4	Scrap material to be returned back to departmental store.	15% to 20%	-

Note: (i) Cost of G.M. Scrap shall be recovered @ 262/- per kg. and cost of C.I. / M.S. Scrap shall be recovered @ Rs. 21.00 per kg. However cost of G.M. scrap and CI scrap shall be governed by rates issued by CESPO and competent officials from time to time.

(ii) Burning / Wastage allowance only Applicable when the material is issued by the Department.

16. Valves:-

S. No.	Name of Work	Complete Rate in Rs.						
	Reflux Valve	8" Dia	12" Dia	18" Dia	24" Dia	36" Dia	42-44" Dia	48" Dia
1	Complete dismantling of reflex valve loading unloading, remetalling grinding, finishing of flapper seat replacing of nut bolt, R.I. sheet and complete fitting.	6502	8076	1166	15700	20150	30021	45426
	Sluice Valve	8" Dia	12" Dia	14" Dia	18" Dia	24" Dia		
2	P/F Sluice valve spindle rod made of mild steel as per	2245	4483	5387	6664	9872	-	-
3	P/F Sluice valve spindle made of GM as per sample.	7732	15460	19988	24158	26576	-	-
4	P/F G.M. Nut as per sample.	461	1207	1207	1448	1931	-	-
5	Dismantling, shifting dissembling, of sluice valve repairing of valve sheet by welding and grinding etc. Repairing of flapper by welding grinding Assembly of sluice valve, including carriage to site & shifting to Required work site and fitting to pipe line with cost of rubber flange nut & bolt etc.	3847	4617	5002	5387	7310	-	-

S.No.	Item of Works	Unit	Complete Rate in Rs.		
			30"/36"	40"/42"	44"/48" & above
6	Taking out sluice valve from pipe line, shifting and Dismantling.	Job.	6202	7441	8503
7	Manufacturing M.S. Spindle by turning the rod to proper size and making square threads, cutting of groves etc.	Job.	10747	15046	17666
8	Manufacturing G.M. Seating rings for flapper and body by casting and machining and then fittings them in sluice valve body and flapper.(When broken Ring Returned to deptt.)	Each	18522	27782	34975
9	Erection of sluice valve body in pipe line.	Job.	6202	7441	9496
10	Assembly of flapper, chuck-nut and spindle in sluice valve and fixing top cover bolting including cost of packing etc.	Job.	4963	6617	7649

17. Vacuum Pump:-

S.No.	Name of Work	Unit	In Rs.				
			5 H.P.	7.5 H.P.	10 H.P.	15 H.P.	20 H.P.
1	Complete repairing of vacuum pump by opening from foundation, carriage to W/S, repairing of impeller, repairing of shaft, changing of G.M. Sleeve 2 No., repairing of body, Assly & fitting on required foundation with all T&P Labour & Material	1 Job.	8973	9874	11214	13872	16542

Note: The Rates include cost of cutting, welding, dismantling and refitting of attachment (place form, support etc) if any required.

Miscellaneous :

		Complete Rate in Rs.			
18	Refilling of Dry Chemical powder type Fire extinguishers including cost of material, labour cartage and T&P etc.				
(a)	Capacity	5 Kg.	Each Set	-	3224
(b)	Capacity	10 Kg.	”	-	4213
(c)	Capacity	15 Kg.	”	-	5361
19	General over hauling of Surge pipe valve (compound air release valve) on surge pipe by opening cleaning, degreasing, greasing, cost of hard-wares, gasket, grinding, repairing of seat including cost of attachment etc. (Should be done once in year)	Each	-	-	6227
20	General overhauling of syphonic breaker Valve by opening cleaning degreasing, greasing, cost of hard wares, gaskets, grinding/ repairing of seat	-	-	-	3224
21	Remetalling of Bush/ Journal Bearing by scrapping burnt white metal, white metal coating by heating, turning finishing etc. including carriage from site to work- shop and back.	-	-	-	-
(a)	60 Cusec Pumps	Each set of 2 Halves	-	-	5547
(b)	120/150 cusec pump.	---do---	-	-	11314
(c)	Motor upto 1000 K.W.	---do---	-	-	24406
(d)	Motor above 1000 KW	---do---	-	-	28844

22. Repairing of Dewatering Pump Set.						
Sl. No.	Item of Work	Unit	In Rs.			
			5 H.P.	10 H.P.	20 H.P.	25 H.P.
(a)	Dismantling P/Set from foundation shifting upto working place, Dismantling and taking out, Impeller shaft, Sleeve bush etc Repairing of Impeller, shaft by welding. turning and finishing after straightening of Impeller Shaft, assembling after replacing required parts, shifting P/set up to foundation, including installation testing and commissioning etc.	Job.	5840	9731	13509	16887
(b)	Coupling bolt with Rubber bush	Each	90	170	213	244
23	Repair of delivery pipe line for removing the leakage from joints by dismantling the pipe and taking out the rusted M.S. bolt by cutting. Fixing new rubber gasket and relaying the pipe line properly including cost of new rubber gasket, nut- bolts and washer complete in all respect	Each Joint		450 mm dia	750-914 mm dia	1375-1625 mm dia
				2519	7100	10739

Note :

- 1 Incase of Bolts with nuts and gaskets provided by department, the cost shall be recovered at Departmental rate.
- 2 For pipes relayed on more than 1: 5 slope 30% extra rates will be admissible

S. No.	Item of work	Unit	Rate in Rs.
24	Supplying and laying of Galvanized Corrugated Iron roofing 24. S.W.G. including cutting, punching and cost of washer, Rivets, bolts and Nuts, labour, T&P etc. required for proper completion of work, but excluding cost of trusses, flat iron etc.	Sq. Mtr.	1098
25	Collection of watery dirty slush in pump house trenches and from place under the equipments installed in pump house, filling of slush in bucket and shifting bucket by EOT crane to erection bay of Pump House (Departmental crane free of charges) Removing of slush from bucket at erection and disposing it in down stream of pump house.	M ³	363

Note: If departmental crane is not used, 20% extra rates shall be admissible.

General Note:-

1	In case of Electrical Items PWD Schedule shall be applicable where departmental schedule is not available.
2	Above rates will be applicable upto 8 Km_ of district H.Q. Beyond 8 Kms. from dist. H.Q. 10% extra rates shall be Permissible for lift pump canals only.
3	Works pertaining to repair and maintenance of lift pump canals will be carried out after prior approval/consent of Executive Engineer concerned.

Note: as per Standing Order No .76 of Chief Engineer, IDUP, Approval by concerned Superintending Engineering, Tubewell Circle in mandatory for getting Mechanical work done from outside agency.

BARRAGES AND REGULATORS WORK

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)	
			Labour Rate	Overall Rate
1	2	3	4	5
1	Painting on old rusted steel surface of gates and appurtenances after preparation of surface properly by sand blasting process and applying two coat of Zinc Rich primer and two coat of solvent less epoxy paint including cost of all material, labour T&P and scaffolding required for proper completion of work.	Sqm	279.00	1120.00
2	Painting of gates and appurtenances by applying 1 coat of red oxide zinc chromate primer and 2 coat of high build black bituminous paint of standard make after proper cleaning.scraping the surface including cost of material, all material, labour T&P and scaffolding bridges with proper safety arrangement as required for proper completion of work.	Sqm	127.00	238.00
3	Painting of superstructure of gate by applying I coat of red oxide zinc chromate primer and 2 coat of high glass synthetic enamel phiroza blue paint of standard make after proper cleaning, scarping the surface including cost of all material, labour T&P and scaffolding bridges with proper safety arrangement as required for proper completion of work.	Sqm	127.00	235.00
4	Replacing of musical note type side rubber seal as per IS code 11855 by removing old damaged side rubber seal from gate, scraping & cleaning surface, making holes feding and clamping the M.S plate by new counters sunk head high tensile bolts, nuts and washer, making adjustment as per requirement of site including cost of all material labour and T&p required for proper completion of work. For size 120 X 12mm note dia 45mm	Mtr.	1041.00	4200.00

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)	
			Labour Rate	Overall Rate
1	2	3	4	5
5	Replacing of bottom rubber seal as per IS code 11855 by removing old damaged side rubber sea from gate, scraping & cleaning surface, making holes, fixing and clamping the M.S plate by new counters sunk head high tensile bolts, nuts and washer, making adjustment as per requirement of site including cost of all material, labour and T&p required for proper completion of work. For size 80X20 mm	Mtr.	1112.00	3180.00
6	Repairing of guide roller (side sway roller) by taking our defective guide roller from gate. Rethreading of foundation hole after extrancting broken foundation bolts. Repairing of pin by remetaling by welding, machining of roller shaft assembling the guide roller and fitting on gates with new foundation bolt and new rubber bushes and necessary oiling and greasing including cost of all material, labour, T&P test and trial etc required 1 for proper completion of work.	Job.	2682.00	4230.00
7	Greasing oiling of component of lifting mechanism of gates (excluding rollers) after proper cleaning with replacing Grease cup/Grease Nipple as required including cost of all material, labour and T&P etc. required proper completion of work.			
a	For gate span up to 8.00 mtr	Job.	2507.00	5100.00
b	For gate span between 8.00 mtr to 12.00 mtr	Job.	1586.00	7335.00
c	For gate span above 12.00 mtr	Job	5978.00	10880.00
8	Applying cardium compound on steel wire rope, teeth of drum gear and pinion of gate after proper cleaning including cot of all material, labour, T&P and scaffolding with safety arrangement required for proper completion of work			

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)	
			Labour Rate	Overall Rate
1	2	3	4	5
a	For gate span up to 8.00 mtr	Job.	2723.00	4770.00
b	For gate span between 8.00 mtr to 12.00 mtr	Job.	3686.00	6495.00
c	For gate span above 12.00 mtr	Job	5446.00	9265.00
9	Replacing filling gear oil in Radicon Reduction Gear Box (radicon or flaxon unit) after proper cleaning including cost of all materials, labour T&P etc required for proper completion of work			
a	For gate span up to 8.00 mtr	Job	482.00	1910.00
b	For gate span between 8.00 mtr to 12.00 mtr	Job	697.00	2645.00
c	For gate span above 12.00 mtr	Job	963.00	2970.00
10	General repairing and servicing of Central Hand drive unit system by dismantling & changing required damaged/broken spare part & reassembling, fitting, greasing & testing including cost of all material, labour and T&P required for proper completion of work.			
	a) Gate Span upto 8.00 mtr.	Job	5670.00	8220.00
	b) Gate Span upto 8.00 to 12.00mtr.	Job	6668.00	9720.00
	c) Gate Span above 12.00 mtr.	Job	10080.00	14250.00
11	Greasing of main rollers of gates after cleaning replacing grease nipples/ grease cup as per required including cost of all material, labour and T&P for proper completion of work.			
	a) Gate Span below 12.00 mtr.	Job	347.00	598.00
	b) Gate Span above 12.00 mtr. 12	Job	483.00	830.00
12	Replacing defective alignment of gates by adjusting length of steel wire rope, plummer block and other allied works as replaced including cost of all material, labour and T&P Jigs & fixture, scaffolding etc. as required for proper completion of work.			
	a) Gate Span upto 8.00 mtr.	Job	16065.00	2612.00
	b) Gate Span upto 8.00 to 12.00mtr.	Job	24801.00	35428.00
	c) Gate Span above 12.00 mtr.	Job	25694.00	36448.00

Sl. No.	ITEMS OF WORK	UNIT	RATES (RS.)	
			Labour Rate	Overall Rate
1	2	3	4	5
13	Hiring dredger for earth/sand by deploying 01 No. Cutter suction dredger of 250 m ³ /hr (solid) Capacity Dredging depth upto Mtr., suction should be 14" & discharge should be 12" diesel driven dredger with all accessories for discharging 1000 Mtr. Including shifting of pipe.	Job	9734.00	19225.00

Schedule of Consumption of Material Concrete

S.No	Nominal Mix	Unit Volume	Natural Aggregate			Crushed Aggregate		
			Cement Bags of 50 Kg	Sand Cum	Coarse Aggregate Cum	Cement Bags of 50 Kg	Sand Cum	Coarse Aggregate Cum
1	2	3	4	5	6	7	8	9
1	1:1:2 (M25)	1 Cum	10.80	0.38	0.75	11.10	0.39	0.78
2	1:1.5:3 (M20)	1 Cum	7.56	0.40	0.80	7.90	0.41	0.83
3	1:2:4 (M15)	1 Cum	5.76	0.40	0.80	6.10	0.42	0.85
4	1:3:6 (M10)	1 Cum	4.15	0.43	0.86	4.30	0.45	0.90
5	1:4:8 (M7.5)	1 Cum	3.25	0.45	0.90	3.40	0.46	0.93

Remarks:-

The Ingredients mentioned in the table are based on usual & conventional practice No

Ist Class Brick Work in Cement Mortar

S.No	Mix of Mortar	Unit	Cement Bags of 50 Kg	Sand Cum	Bricks Nos.	Remarks
1	1:3	Cum of Brick Works	2.60	0.275	460	Size of Bricks 9"x4 ^{3/4} "x2 ^{3/4} " or 23cmx11cmx7cm (Assuming 9.5 mm thickness of Joint)
2	1:4		2.00	0.275	460	
3	1:6		1.35	0.275	460	

Stone Masonry in Cement Mortar

S.No	Name of Items/Mixes	Unit	Mortar Required	Cement Bags of 50 Kg	Sand Cum	Stone Cum	Remarks
1	2	3	4	5	6	7	8
1	Random Rubble	Cum	0.45 Cum	3.20	0.45	1.00	
2	Random Rubble	Cum	0.45 Cum	4.30	0.45	1.00	
3	Coarsed Stone (Dressed) 1:3	Cum	0.33 Cum	3.15	0.33	1.05	

Cement Pointing

S.No	Mix	Unit	Cement Bags of 50	Sand Cum	Remarks
1	2	3	4	5	6
1	1:2	Sqm	0.055	0.0036	33% Extra for Stone Masonry
2	1:3	Sqm	0.035	0.0036	

Cement Plaster

S.No	Mix	Unit	Cement Bags of 50	Sand Cum	Remarks
1	2	3	4	5	6
1	1:3	1 Sqm of 1.25 Cm thick Plaster	0.140	0.0150	33% Extra for Stone Masonry
2	1:4		0.110	0.0150	
3	1:5		0.095	0.0165	
4	1:6		0.079	0.0165	

Concrete in Floor 3.5 Cm Thick

S.No	Mix	Unit	Cement Bags of 50 Kg	Sand Cum	Stone Ballast Cum	Stone Cum	Remarks
1	2	3	4	5	6	7	8
1	1:2:4	Sqm	0.227	0.013	0.030	1.00	
2	1:3:6	Sqm	0.161	0.016	0.032	1.00	

Brick Flooring

S.No	Item	Unit	Brick No.	Mortar Cum	Remarks
1	2	3	4	5	6
1	Flat Bricks	Sqm	38	0.021	Brick Size 23cmx11cmx7cm Thickness of Joints 3/8" or 9.5 cm
2	Brick on Edge	Sqm	58	0.032	

Pitching

S.No	Item	Unit	Cement Bags of	Remarks
1	2	3	4	5
1	Dry Brick Pitching	Cum	580 Nos Bricks	See(i) Below
2	Dry Stone Pitching	Cum	1.05 Cum Stone	See(ii) Below

- (i) Brick Size Assumed 23cmx11cmx7cm. The Brick size is different the no of Bricks may be modified in the ratio volume of Brick Size.
- (ii) The Quantity of Stone shown is for tightly Packed stacks without ant deduction of Voids.

Lime for White Washing

S.No	Coats	Unit	Lime Kg.	Remarks
1	2	3	4	5
1	Old Work 1 Coat	Sqm	0.100	
2	Old Work 2 Coat	Sqm	0.150	
2	New Work 3 Coat	Sqm	0.300	

Distempering

S.No	Coats	Unit	Lime Kg.	Remarks
1	2	3	4	5
1	1 st Coat	Sqm	0.225	
2	2 nd Coat	Sqm	0.075	

Reinforced Brick Work 1:3 Cement Mortar

1. Cement..... 3.5 bag of 50 Kg.
2. Sand..... 0.335 Cum.
3. Brick (23 Cm x 11 Cm x 7Cm)..... 424 Nos.

Lime Concrete

S. No.	Type	Mix	Unit Cum	White Lime Cum	Surkhi Cum	Kankar Lime Cum	Sand Cum	Ballast Cum	Remark
1	2	3	4	5	6	7	8	9	10
1	Lime Sand Concrete	1:1	Cum	0.285	–	–	0.29	1	
2	Lime Surkhi Sand Concrete	1:1:1	Cum	0.14	0.19	–	0.19	1	
3	Lime Surkhi Sand Concrete	1:1:2	Cum	0.14	0.14	–	0.285	1	
4	Lime Surkhi Sand Concrete	1:1	Cum	0.19	0.38	–	–	1	
5	Lime Sand Concrete	1:2	Cum	0.19	–	–	0.38	1	
6	Lime Sand Concrete	1:3	Cum	0.14	–	–	0.43	1	
7	Lime Ash Sand Concrete	1:1:1	Cum	0.19	0.19 (Ash)	–	0.19	1	
8	Kankar Lime	-	-	-	-	0.40	-	1	