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लि०, द्वितीय तलम, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, नॉर्थ बिहार पावर जेनरेशन कॉर्पोरेशन लि०, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, साउथ बिहार पावर जेनरेशन कॉर्पोरेशन लि०, विद्युत भवन, बेली रोड, बिहार, पटना/प्रबंध निदेशक, बिहार ग्रीड कॉर्पोरेशन लि०, विद्युत भवन, बेली रोड बिहार पटना को सूचनाार्थ एवं अनुरोध है कि सभी अधीनस्थ कार्यपालक अभियंता को प्रावधानों से अवगत करावे।

सरकार के विशेष सचिव

E-mail/Fax

ज्ञापक- सी०सी०-०१/१४-(खण्ड)-४०४२/एम०, पटना, दिनांक-१७/१०/१७
प्रतिलिपि- National Building Construction Corporation Ltd, Maurya Complex, Patna/प्रबंधक (विस्त), राष्ट्रीय भवन निर्माण निगम लि०, पटना/FA & CAO/EC, Railway CON/MX/Patna/Iron International Ltd, Sone Bhawan, P.P. Roy Path, Patna/Sr. AFA (Con.) E.C Railway, North Eastern Frontier Railway/The Head IWD, IIT, Patna Project, IIT, Patna/बरीय अभियंता (टी०एनटी०), पावर ग्रिड कॉर्पोरेशन ऑफ इन्डिया लि०, पटना/महाप्रबंधक, केन्द्रीय लोक निर्माण विभाग, पटना/महाप्रबंधक, एन०टी०पी०सी०, बाढ़, बिहार/मुख्य अभियंता, भारत संचार निगम लिमिटेड, पटना/क्षेत्रीय पदाधिकारी, अन्तर्राष्ट्रीय सड़क राजमार्ग, किदवईपुरी, पटना/कार्यपालक निदेशक, नेशनल हाइड्रो पावर कॉर्पोरेशन, पटना/प्रबंध निदेशक, एन०पी०सी०सी०, कॉंटी बिजली उत्पाद निगम, पटना/प्रबंध निदेशक, रेल विकास निगम, पटना/प्रबंध निदेशक, एयरपोर्ट ऑथरिटी ऑफ इन्डिया, पटना/गया/गिरिसन इंजिनियर, दानापुर कैंट, पटना/क्षेत्रीय पदाधिकारी, एन०एच०ए०आई०, किदवईपुरी, पटना/महाप्रबंधक, इंडियन ऑयल कॉर्पोरेशन लि०, पटना, मार्केटिंग डिवीजन लोकनायक जयप्रकाश भवन, डाकबंगला चौराहा, पटना/महाप्रबंधक, बरौनी थर्मल पावर स्टेशन, बरौनी/कार्यपालक निदेशक, इंडियन ऑयल कॉर्पोरेशन लि०, रिफाईनी डिवीजन, बरौनी

सरकार के विशेष सचिव

ज्ञापक- सी०सी०-०१/१४-(खण्ड)-४०४२/एम०, पटना, दिनांक-१७/१०/१७
प्रतिलिपि- सभी कार्यपालक अभियंता, सभी प्रमण्डल, भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/जल संसाधन विभाग/ग्रामीण विकास विभाग/लघु सिंचाई विभाग/शहरी विकास विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना एवं भूतत्व विभाग, बिहार, पटना को सूचनाार्थ एवं आवश्यक कार्याार्थ प्रेषित।

सरकार के विशेष सचिव

ज्ञापक- सी०सी०-०१/१४-(खण्ड)-४०४२/एम०, पटना, दिनांक-१७/१०/१७
प्रतिलिपि- I.T Manger, खान एवं भूतत्व विभाग, बिहार, पटना को सूचनाार्थ एवं आवश्यक कार्याार्थ प्रेषित।

सरकार के विशेष सचिव

के. के. पाठक, भा.प्र.से.
प्रधान सचिव,
खान एवं भूतत्व विभाग
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दूरभाष : 0612-2215857 (का०)



सत्यमेव जयते

बिहार सरकार

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पत्रांक 126/M.C / पटना, दिनांक 17-10-17

सेवा में,
सभी समाह्वरता,
बिहार।

विषय: - कार्य विभागों द्वारा लघु खनिजों की Royalty विभाग में भेजने के संबंध में।

महाशय,

आप अवगत है कि सभी कार्य विभाग जैसे कि पथ निर्माण विभाग, भवन निर्माण विभाग, पंचायती राज विभाग, जल संसाधन विभाग, PHED इत्यादि अपने-अपने संवेदकों से Royalty काट तो लेते हैं और उसे Miscellaneous Head में जमा भी कर देते हैं, किन्तु उसे खान विभाग के शीर्ष में जमा नहीं करते हैं और न ही इसकी सूचना खान विभाग को देते हैं।

आपसे अनुरोध है कि संबंधित कार्य विभागों के कार्यपालक अभियंताओं को निदेशित करने की कृपा की जाये कि संवेदकों से काटी हुई Royalty 31 अक्टूबर 2017 तक खान एवं भूतत्व विभाग के उचित शीर्ष '0853' में जमा कराये।

ऐसे भी, अब Royalty काटने की प्रथा समाप्त की जा चुकी है और Seigniorage Fee की व्यवस्था लागू की जा चुकी है। इसलिए यह उचित है कि पुराने व्यवस्था के तहत काटी हुई Royalty को अतिशीघ्र खान एवं भूतत्व विभाग के शीर्ष '0853' में 31 अक्टूबर के पहले जमा कराये।

कृपया इस मुद्दे पर Task Force में संबंधित कार्यपालक अभियंताओं से चर्चा की जाये और अनुपालन सुनिश्चित किया जाये।

विश्वासभाजन

ह०/-
(के०के० पाठक)

प्रतिलिपि :- ज्ञापांक 126/M.C / पटना, दिनांक 17-10-17
विशेष सचिव/निदेशक/सभी उप निदेशक/सभी सहायक निदेशक/सभी खनिज विकास पदाधिकारी/सभी खान निरीक्षक को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
(के०के० पाठक)

प्रतिलिपि :- ज्ञापांक 126/M.C / पटना, दिनांक 17-10-17
सभी प्रमण्डलीय आयुक्त को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
(के०के० पाठक)

प्रतिलिपि :- ज्ञापांक 126/M.C / पटना, दिनांक 17-10-17
प्रधान सचिव, भवन निर्माण विभाग/पथ निर्माण विभाग/प्राणीय कार्य विभाग/जल संसाधन विभाग/ग्रामीण विकास विभाग/शहरी विकास विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना/अभियंता प्रमुख, भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/जल संसाधन विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना/अभियंता प्रमुख, राष्ट्रीय उच्च पथ प्रमंडल, पटना/महाप्रबंधक, क्षेत्रीय कार्यालय, NHAI, D-03, प्रथम तल, राजेश कुमार पथ, श्रीकृष्णापुरी, बोरिंग रोड, पटना/प्रबंध निदेशक, बिहार राज्य शैक्षणिक आणख्य संरचना विकास निगम, शिक्षा भवन, राष्ट्रभाषा कॉम्प्लेक्स, सैदपुर, पटना/प्रबंध निदेशक, बिहार राज्य पुलिस निर्माण निगम, वी०एम०पी०-5 कैम्पस, खंखपुरा, पटना-14/प्रबंध निदेशक, बिहार राज्य भवन निर्माण निगम, पटना/प्रबंध निदेशक, बिहार राज्य पुल निर्माण निगम, पटना/प्रबंध निदेशक, नॉर्थ बिहार पावर डिस्ट्रीब्यूशन कॉरपोरेशन लि०, द्वितीय तल्ला, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, नॉर्थ बिहार कॉरपोरेशन लि०, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, साउथ बिहार पावर जेनरेशन कॉरपोरेशन लि०, विद्युत भवन, बेली रोड, बिहार, पटना/प्रबंध निदेशक, बिहार ग्रीड कॉरपोरेशन लि०, विद्युत भवन, बेली रोड, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
(के०के० पाठक)

ज्ञापक 126/M.C / पटना, दिनांक 17-10-17
 प्रतिलिपि :- National Building Construction Corporation Ltd. Maurya Complex, Patna/ प्रबंधक (वित्त) राष्ट्रीय भवन निर्माण निगम लि०, पटना/FA & CAO/EC, Railway CON/MX/Patna/Ircon International Ltd. Sone Bhawan, P.P. Roy Path, Patna/Sr. AFA (Con.) E.C Railway, North Eastern Frontier Railway/ The Head IWD, IIT, Patna Project, IIT, Patna/ वरीय अभियंता (टी०एनटी०), पावर ग्रिड कारपोरेशन ऑफ इन्डिया लि०, पटना/ महाप्रबंधक, केन्द्रीय लोक निर्माण विभाग, पटना/ महाप्रबंधक, एन०टी०पी०सी०, बाढ़ बिहार/ मुख्य अभियंता, भारत संचार निगम लिमिटेड, पटना/ क्षेत्रीय पदाधिकारी, अन्तरराष्ट्रीय सड़क राजमार्ग, किदवईपुरी, पटना/ कार्यपालक निदेशक, नेशनल हाइड्रो पावर कॉरपोरेशन, पटना/ प्रबंध निदेशक, एन०पी०सी०सी०, कॉटी बिजली उत्पादन निगम, पटना/ प्रबंध निदेशक, रेल विकास निगम, पटना/ प्रबंध निदेशक, एयरपोर्ट ऑथरिटी ऑफ इंडिया, पटना/ गया/ गैरिसन इंजिनियर, दानापुर कैंट, पटना/ क्षेत्रीय पदाधिकारी, एन०एच०ए०आई०, किदवईपुरी, पटना/ महाप्रबंधक, इंडियन ऑयल कॉरपोरेशन लि०, पटना, मार्केटिंग डिवीजन लोफनायक जयप्रकाश भवन, डाकबंगला चौराहा पटना/ महाप्रबंधक, बरौनी थर्मल पावर स्टेशन, बरौनी/ कार्यपालक निदेशक, इंडियन ऑयल कॉरपोरेशन लि०, रिफाईन्री डिवीजन, बैरौनी

ह०/-

(के०के० पाठक)

ज्ञापक 126 / पटना, दिनांक 17-10-17
 प्रतिलिपि :- सभी कार्यपालक अभियंता, सभी प्रमंडल/भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/लघु सिंचाई विभाग/जल संसाधन विभाग/ग्रामीण विकास विभाग/शहरी विकास विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना एवं भूतत्व विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्याथ प्रेषित।

ह०/-

(के०के० पाठक)

ज्ञापक 126/M.C / पटना, दिनांक 17-10-17
 प्रतिलिपि :- I.T Manager, खान एवं भूतत्व विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्याथ प्रेषित।

(के०के० पाठक)

12/10/17

XXXXIII

के. के. पाठक, भा.प्र.से.
प्रधान सचिव,
खान एवं भूतत्व विभाग
बिहार सरकार
विकास भवन, पटना-800 015
दूरभाष : 0612-2215857 (का०)



सत्यमेव जयते
बिहार सरकार

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पत्रांक 127/M.C / पटना, दिनांक 17-10-17

सेवा में,

सभी समाहर्ता,
बिहार।

विषय - Seigniorage Fee प्रणाली लागू करने के संबंध में।

महोदय,

आप अवगत है कि नव-प्रख्यापित बिहार लघु खनिज नियमावली, 2017 की धारा 69 के तहत Seigniorage Fee का प्रावधान विभाग ने किया है। एतत् संबंधी अधिसूचना संख्या 3031 निकाली जा चुकी है, जिसकी प्रतिलिपि संलग्न है।

कार्य विभागों से विनर्शापसंत उक्त अधिसूचना में कुछ संशोधन किये गये हैं। यथा अल्प संशोधित अधिसूचना संख्या 4042 दिनांक 17.10.2017 भी निकाली जा चुकी है, जिसकी प्रतिलिपि भी संलग्न है।

उक्त के आधार पर यह निर्णय लिया गया है कि Seigniorage Fee प्रणाली दिनांक 01.11.2017 से लागू होगी। इसके तहत दिनांक 01.11.2017 के बाद स्वीकृत की जाने वाली योजनाओं में 2% Seigniorage Fee लिया जायेगा। कार्यपालक अभियंताओं को यह निर्देशित कर दिया जाये कि वे 01.11.2017 के बाद स्वीकृत की जाने वाली योजनाओं का एकरारनामा करते समय 2% Seigniorage Fee का प्रावधान भी एकरारनामा में डालें।

साथ ही वर्तमान में चल रही योजनाओं के भी वैसे Running Bills जो 01.11.2017 के बाद पारित किये जायें उनसे भी bill के मूल्य का 2% Seigniorage Fee Flat दर पर काटा जाये।

इस बात का विशेष तौर पर ख्याल रखा जाये कि अब Form 'M' एवं Form 'N' की प्रथा दिनांक 11.10.2017 के प्रभाव से समाप्त कर दी गयी है। अतः अपने जिले के सभी कार्य प्रमंडलों को सूचित कर दें कि अब किसी भी संवेदक को Form 'M' तथा Form 'N' के तहत royalty का reimbursement न किया जाये। इसके लिए उचित है कि सभी कार्य प्रमंडल अपने Miscellaneous Head में Royalty की जमा सधि को अतिलम्ब खान विभाग के उचित शीर्ष '0853' में जमा करें वना back date से royalty की reimbursement की संभावना बनी रहती है।

विश्वासभाजन

ह०/-
(के०के० पाठक)

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- विशेष सचिव/निदेशक/समी उप निदेशक/समी सहायक निदेशक/समी खनिज विकास पदाधिकारी/समी खान निरीक्षक को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
(के०के० पाठक)

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- समी प्रमण्डलीय आयुक्त को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-
(के०के० पाठक)

^ / ^ / ^

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- प्रधान सचिव, भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/जल संसाधन विभाग/ग्रामीण विकास विभाग/शहरी विकास विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना/अभियंता प्रमुख, भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/जल संसाधन विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना/अभियंता प्रमुख, सङ्घीय उच्च पथ प्रमंडल, पटना/महाप्रबंधक, क्षेत्रीय कार्यालय, NHAI, U-03, प्रथम तल, राजेश कुमार पथ, श्रीकृष्णापुरी, बोरिंग रोड, पटना/प्रबंध निदेशक, बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम, शिक्षा भवन, राष्ट्रभाषा कॉम्प्लेक्स, सैदपुर, पटना/प्रबंध निदेशक, बिहार राज्य पुलिस निर्माण निगम, बी०ए०पी०-६ कैंम्पस, शेखपुरा, पटना-14/प्रबंध निदेशक, बिहार राज्य भवन निर्माण निगम, पटना/प्रबंध निदेशक, बिहार राज्य पुल निर्माण निगम, पटना/प्रबंध निदेशक, नॉर्थ बिहार पावर डिस्ट्रीब्यूशन कॉरपोरेशन लि०, द्वितीय तल्ला, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, नॉर्थ बिहार कॉरपोरेशन लि०, विद्युत भवन, बेली रोड बिहार, पटना/प्रबंध निदेशक, साउथ बिहार पावर जेनरेशन कॉरपोरेशन लि०, विद्युत भवन, बेली रोड, बिहार पटना/प्रबंध निदेशक, बिहार ग्रीड कॉरपोरेशन लि०, विद्युत भवन, बेली रोड, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-
(के०के० पाठक)

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- National Building Construction Corporation Ltd. Maurya Complex, Patna/प्रबंधक (वित्त) राष्ट्रीय भवन निर्माण निगम लि०, पटना/FA & CAO/EC, Railway CON/MX/Patna/Ircon International Ltd. Sone Bhawan, P.P. Roy Path, Patna/Sr. AFA (Con.) E.C Railway, North Eastern Frontier Railway/ The Head IWD, IIT, Patna Project, IIT, Patna/ वरीय अभियंता (टी०एनटी०), पावर ग्रिड कॉरपोरेशन ऑफ इन्डिया लि०, पटना/ महाप्रबंधक, केन्द्रीय लोक निर्माण विभाग, पटना/ महाप्रबंधक, एन०टी०पी०सी०, बाढ़ बिहार/ मुख्य अभियंता, भारत संचार निगम लिमिटेड, पटना/क्षेत्रीय पदाधिकारी, अन्तरराष्ट्रीय सड़क राजमार्ग, फिदवईपुरी, पटना/कार्यपालक निदेशक, नेशनल हाइड्रो पावर कॉरपोरेशन, पटना/प्रबंध निदेशक, एन०पी०सी०सी०, कोटी बिजली उत्पादन निगम, पटना/ प्रबंध निदेशक, रेल विकास निगम, पटना/ प्रबंध निदेशक, एयरपोर्ट ऑथरिटी ऑफ इंडिया, पटना/ गया/ गैरिसन इंजिनियर, दानापुर कैंट, पटना/ क्षेत्रीय पदाधिकारी, एन०एच०ए०आई०, फिदवईपुरी, पटना/महाप्रबंधक, इंडियन ऑयल कॉरपोरेशन लि०, पटना, मार्केटिंग डिवीजन लोकनायक जयप्रकाश भवन, झाकबंगला चौराहा पटना/महाप्रबंधक, बरौनी थर्मल पावर स्टेशन, बरौनी/कार्यपालक निदेशक, इंडियन ऑयल कॉरपोरेशन लि०, रिफाईन्री डिवीजन, बरौनी

ह०/-
(के०के० पाठक)

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- सभी कार्यपालक अभियंता, सभी प्रमंडल/भवन निर्माण विभाग/पथ निर्माण विभाग/ग्रामीण कार्य विभाग/लघु सिंचाई विभाग/जल संसाधन विभाग/ग्रामीण विकास विभाग/शहरी विकास विभाग/लोक स्वास्थ्य अभियंत्रण विभाग, बिहार, पटना एवं भूतत्व विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-
(के०के० पाठक)

ज्ञापक 127/M.C / पटना, दिनांक 17-10-17
प्रतिलिपि :- I.T Manager, खान एवं भूतत्व विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-
(के०के० पाठक)
17/10/17

CHAPTER - I

| SCHEDULE - I Dt. 18.07.2017 | | | | | | |
|--|----------------------|---------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Approved Schedule of Rates for labour engaged in construction & maintenance of Roads | | | | | | |
| Sl.No | Category of Employee | Minimum Rates of Wages per Jay as per | | | | |
| | | Lab. Dept. Noti. No. 3225/8.10.15 | Lab. Dept. Noti. No. 1225/01.04.16 | Lab. Dept. Noti. No. 4175/20.09.16 | Lab. Dept. Noti. No. 4971/29.11.16 | Lab. Dept. Noti. No. 1194/28.03.17 |
| 1 | 2 | 3 | 4(1.04232xCl.3) | 5(1.01624xCl.4) | 6 | 7(1.02336xCl.6) |
| 1 | Unskilled labour | 197 | 206 | 209 | 237 | 242 |
| 2 | Sweeper | 197 | 206 | 209 | 237 | 242 |
| 3 | Mistry | 197 | 206 | 209 | 237 | 242 |
| 4 | Cleaner | 197 | 206 | 209 | 237 | 242 |
| 5 | Helper | 197 | 206 | 209 | 237 | 242 |
| 6 | Khalasi/Chainman | 197 | 206 | 209 | 237 | 242 |
| 7 | Marker | 253 | 264 | 268 | 302 | 309 |
| 8 | Fitter grade I | 272 | 284 | 289 | 328 | 336 |
| | Fitter grade II | 239 | 249 | 253 | 288 | 295 |
| 9 | Turner | 239 | 249 | 253 | 288 | 295 |
| 10 | Mechanic grade I | 310 | 323 | 328 | 370 | 379 |
| | Mechanic grade II | 287 | 299 | 304 | 344 | 352 |
| 11 | Electrician grade I | 254 | 265 | 269 | 305 | 312 |
| | Electrician grade II | 239 | 249 | 253 | 288 | 295 |
| 12 | Lineman/Wireman | 233 | 243 | 247 | 278 | 284 |
| 13 | Charge man | 287 | 299 | 304 | 344 | 352 |
| 14 | Foreman | 340 | 354 | 360 | 406 | 415 |
| 15 | Welder grade I | 302 | 315 | 320 | 362 | 370 |
| | Welder grade II | 254 | 265 | 269 | 305 | 312 |
| 16 | Glazier | 224 | 233 | 237 | 270 | 276 |
| 17 | Carpenter | 239 | 249 | 253 | 288 | 295 |
| 18 | Head Carpenter | 268 | 279 | 284 | 322 | 330 |
| 19 | Checker | 242 | 252 | 256 | 291 | 298 |
| 20 | Hammer man | 211 | 220 | 224 | 252 | 258 |
| 21 | Tin Smith | 272 | 284 | 289 | 328 | 336 |
| 22 | Tin plate maker | 287 | 299 | 304 | 344 | 352 |
| 23 | Black Smith | 239 | 249 | 253 | 288 | 295 |
| 24 | Head Black Smith | 268 | 279 | 284 | 322 | 330 |
| 25 | Tile Layer | 213 | 222 | 226 | 255 | 261 |
| 26 | Thatcher | 213 | 222 | 226 | 255 | 261 |
| 27 | Plumber | 254 | 265 | 269 | 305 | 312 |
| 28 | Grader | 242 | 252 | 256 | 291 | 298 |
| 29 | Road Binder | 224 | 233 | 237 | 270 | 276 |
| 30 | Mason | 239 | 249 | 253 | 288 | 295 |
| 31 | Head Mason | 268 | 279 | 284 | 322 | 330 |
| 32 | Stone Layer | 239 | 249 | 253 | 288 | 295 |
| 33 | Tar man | 211 | 220 | 224 | 252 | 258 |
| 34 | Fireman | 213 | 222 | 226 | 255 | 261 |
| 35 | Grinder | 239 | 249 | 253 | 288 | 295 |
| 36 | Gas Cutter | 253 | 264 | 268 | 302 | 309 |
| 37 | Rigger | 242 | 252 | 256 | 291 | 298 |
| 38 | Sarong | 287 | 299 | 304 | 344 | 352 |
| 39 | Chipper Cum Riveter | 253 | 264 | 268 | 302 | 309 |
| 40 | Tractor Operator | 287 | 299 | 304 | 344 | 352 |

| Sl.No | Category of Employee | Minimum Rates of Wages per day as per | | | | |
|-------|---|---------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | | Lab. Dept. Noti. No. 3225/8.10.15 | Lab. Dept. Noti. No. 1225/01.04.16 | Lab. Dept. Noti. No. 4175/30.09.16 | Lab. Dept. Noti. No. 4971/29.11.16 | Lab. Dept. Noti. No. 1194/28.03.17 |
| 1 | 2 | 3 | 4(1.04232xCl.3) | 5(1.01624xCl.4) | 6 | 7(1.02336xCl.6) |
| 41 | Dozer Operator grade I | 340 | 354 | 360 | 406 | 415 |
| | Dozer Operator grade II | 302 | 315 | 320 | 362 | 370 |
| 42 | Dumper Operator | 288 | 300 | 305 | 345 | 353 |
| 43 | Vibrator Operator | 223 | 232 | 236 | 268 | 274 |
| 44 | Pump Driver grade I | 254 | 265 | 269 | 305 | 312 |
| | Pump Driver grade II | 239 | 249 | 253 | 288 | 295 |
| 45 | Dragline Operator Grade I | 340 | 354 | 360 | 406 | 415 |
| | Dragline Operator Grade II | 302 | 315 | 320 | 362 | 370 |
| 46 | Concrete Mixer Operator Grade I | 254 | 265 | 269 | 305 | 312 |
| | Concrete Mixer Operator Grade II | 239 | 249 | 253 | 288 | 295 |
| 47 | Compressor Operator Grade I | 254 | 265 | 269 | 305 | 312 |
| | Compressor Operator Grade II | 239 | 249 | 253 | 288 | 295 |
| 48 | Earth Excavator | | | | | |
| (a) | For every 110 cu. Ft. for soft earth | 199 | 207 | 210 | 237 | 243 |
| (b) | For every 100 cu. Ft. for hard earth | 199 | 207 | 210 | 237 | 243 |
| (c) | For every 90 cu. Ft. for highly hard earth | 199 | 207 | 210 | 237 | 243 |
| 49 | Truck Driver | 287 | 299 | 304 | 344 | 352 |
| 50 | Car/Jeep Driver | 253 | 264 | 268 | 302 | 309 |
| 51 | Crane Operator grade I | 340 | 354 | 360 | 406 | 415 |
| | Crane Operator grade II | 302 | 315 | 320 | 362 | 370 |
| 52 | Winch Operator | 254 | 265 | 269 | 305 | 312 |
| 53 | Road Roller Driver | 346 | 361 | 367 | 414 | 424 |
| 54 | Blaster | 333 | 347 | 353 | 399 | 408 |
| 55 | Painter grade-I | 254 | 265 | 269 | 305 | 312 |
| 56 | Polisher | 213 | 222 | 226 | 255 | 261 |
| 57 | Peon/Durban/Choukidar | 211 | 220 | 224 | 252 | 258 |
| 58 | Clerk/Typist/Typist clerk | 237 | 247 | 251 | 284 | 291 |
| 59 | Time Keeper | 237 | 247 | 251 | 284 | 291 |
| 60 | Store Assistant / Store man | 257 | 268 | 272 | 307 | 314 |
| 61 | Store head | 243 | 253 | 257 | 293 | 300 |
| 62 | Material Chaser | 243 | 253 | 257 | 293 | 300 |
| 63 | Mate and Road Mate | 213 | 222 | 226 | 255 | 261 |
| 64 | Munshi | 223 | 232 | 236 | 268 | 274 |
| 65 | Work Supervisor | 224 | 233 | 237 | 270 | 276 |
| 66 | Amin | 237 | 247 | 251 | 284 | 291 |
| 67 | Surveyor | 242 | 252 | 256 | 291 | 298 |
| 68 | Supervisor Diploma Holder | 324 | 338 | 343 | 390 | 399 |
| 69 | Supervisor Non-Diploma Holder | 239 | 249 | 253 | 288 | 295 |
| 70 | Any other Category of Semi Skilled worker not mentioned above | 206 | 215 | 218 | 247 | 252 |
| 71 | Any Other Category of Skilled Worker not mentioned above | 251 | 262 | 266 | 301 | 307 |
| 72 | Highly Skilled Labour | 306 | 319 | 323 | 367 | 374 |

Note: The above rates has been calculated as 2.336% increase in labour dept. notification no. 4971 dt. 29.11.2016

| SCHEDULE II | | | | | | | Dt 18.07.2017 |
|--|-----------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------|
| Approved Schedule of Rates for labour engaged in Dam construction & Irrigation works | | | | | | | |
| Sl. No. | Category of Employee | Minimum Rates of wages per day as per | | | | | |
| | | Labour Dept. Noti. No. 3225/8.10.15 | Labour Dept. Noti. No. 1 225/1.04.16 | Labour Dept. Noti. No. 4175/30.09.16 | Labour Dept. Noti. No. 4971/29.11.16 | Labour Dept. Noti. No. 1194/28.03.17 | |
| 1 | 2 | 3 | 4(1.04232xc3) | 5(1.01624xc4) | 6 | 7(1.02336xc6) | |
| 1 | Unskilled Labour | 197 | 206 | 209 | 237 | 242 | |
| 2 | Mate | 216 | 225 | 229 | 260 | 266 | |
| 3 | Head Mason | 268 | 279 | 284 | 322 | 330 | |
| 4 | Mason | 239 | 249 | 253 | 288 | 295 | |
| 5 | Printer Class-I | 254 | 265 | 269 | 305 | 312 | |
| 6 | Printer Class-II | 239 | 249 | 253 | 288 | 295 | |
| 7 | Head Carpenter | 268 | 279 | 284 | 322 | 330 | |
| 8 | Carpenter | 239 | 249 | 253 | 288 | 295 | |
| 9 | Head Black Smith | 268 | 279 | 284 | 322 | 330 | |
| 10 | Black Smith | 239 | 249 | 253 | 288 | 295 | |
| 11 | Glazier | 213 | 222 | 226 | 255 | 261 | |
| 12 | Stone Dressoer | 254 | 265 | 269 | 305 | 312 | |
| 13 | Water Carrier | 199 | 207 | 210 | 237 | 243 | |
| 14 | Filter class-I | 272 | 284 | 289 | 328 | 336 | |
| 15 | Filter class-II | 239 | 249 | 253 | 288 | 295 | |
| 16 | Helper | 211 | 220 | 224 | 252 | 258 | |
| 17 | Hammer man | 211 | 220 | 224 | 252 | 258 | |
| 18 | Bellowman | 199 | 207 | 210 | 237 | 243 | |
| 19 | Road Roller Driver | 346 | 361 | 367 | 414 | 424 | |
| 20 | Concrete Mixer Operator, Class-I | 254 | 265 | 269 | 305 | 312 | |
| 21 | Concrete Mixer Operator, Class-II | 239 | 249 | 253 | 288 | 295 | |
| 22 | Stone Crusher Driver, Class-I | 254 | 265 | 269 | 305 | 312 | |
| 23 | Stone Crusher Driver, Class-II | 239 | 249 | 253 | 288 | 295 | |
| 24 | Truck Driver | 287 | 299 | 304 | 344 | 352 | |
| 25 | Compressor Operator, Class-I | 254 | 265 | 269 | 305 | 312 | |
| 26 | Compressor Operator, Class-II | 239 | 249 | 253 | 288 | 295 | |
| 27 | Pump Driver, Class-I | 254 | 265 | 269 | 305 | 312 | |
| 28 | Pump Driver, Class-II | 239 | 249 | 253 | 288 | 295 | |
| 29 | Concrete Mixer Attendant | 211 | 220 | 224 | 252 | 258 | |
| 30 | Cleaner or Oilman | 204 | 213 | 216 | 244 | 250 | |
| 31 | TarBoiler Man | 239 | 249 | 253 | 288 | 295 | |
| 32 | Plumber | 254 | 265 | 269 | 305 | 312 | |
| 33 | Thatcher | 213 | 222 | 226 | 255 | 261 | |
| 34 | Khalasi / Chainman | 213 | 222 | 226 | 255 | 261 | |
| 35 | Sweeper | 204 | 213 | 216 | 244 | 250 | |
| 36 | Watchman | 204 | 213 | 216 | 244 | 250 | |
| 37 | Stone Breaker | 204 | 213 | 216 | 244 | 250 | |
| 38 | Work Sarker | 224 | 233 | 237 | 270 | 276 | |
| 39 | Time Keeper | 237 | 247 | 251 | 284 | 291 | |
| 40 | Welder, Grade-I | 302 | 315 | 320 | 362 | 370 | |
| 41 | Welder, Grade-II | 254 | 265 | 269 | 305 | 312 | |
| 42 | Wireman/Lineman | 233 | 243 | 247 | 278 | 284 | |
| 43 | Mechanic, Grade-I | 310 | 323 | 328 | 370 | 379 | |

| Sl. No. | Category of Employee | Minimum Rates of wages per day as per | | | | |
|---------|--|---------------------------------------|------------------------------|--------------------------------|-------------------------------|-------------------------------|
| | | Labour Dept.No. 3225/8.10.15 | Labour Dept.No.1 225/1.04.16 | Labour Dept.No. 417/5/30.09.16 | Labour Dept.No. 4971/29.11.16 | Labour Dept.No. 1194/28.03.17 |
| 1 | 2 | 3 | 4(1.04232xc3) | 5(1.01624xc4) | 6 | 7(1.02336xc6) |
| 44 | Mechanic, Grade-II | 287 | 299 | 304 | 344 | 352 |
| 45 | Sarang | 287 | 299 | 304 | 344 | 352 |
| 46 | Drill Operator | 239 | 249 | 253 | 288 | 295 |
| 47 | Tractor Operator | 287 | 299 | 304 | 344 | 352 |
| 48 | Gauge Reader-cum-silt Observer | 211 | 220 | 224 | 252 | 258 |
| 49 | Crane Operator, Grade-I | 340 | 354 | 360 | 406 | 415 |
| 50 | Crane Operator, Grade-II | 302 | 315 | 320 | 362 | 370 |
| 51 | Dragline /Scraper/ Showel Operator | 340 | 354 | 360 | 406 | 415 |
| 52 | Dragline/Scraper/Showel Operator | 302 | 315 | 320 | 362 | 370 |
| 53 | Dumper Operator | 288 | 300 | 305 | 345 | 353 |
| 54 | Foreman | 340 | 354 | 360 | 406 | 415 |
| 55 | Junior Forman | 302 | 315 | 320 | 362 | 370 |
| 56 | Chargeman | 288 | 300 | 305 | 345 | 353 |
| 57 | Electrician, Grade-I | 254 | 265 | 269 | 305 | 312 |
| 58 | Electrician, Grade-II | 239 | 249 | 253 | 288 | 295 |
| 59 | Electrician, Grade-III | 211 | 220 | 224 | 252 | 258 |
| 60 | Turner | 239 | 249 | 253 | 288 | 295 |
| 61 | Compounder | 239 | 249 | 253 | 288 | 295 |
| 62 | Supervisor / (Diploma holder) | 324 | 338 | 343 | 390 | 399 |
| 63 | Surveyer / Supervisor | 239 | 249 | 253 | 288 | 295 |
| 64 | Blue Printer | 211 | 220 | 224 | 252 | 258 |
| 65 | Tracer | 211 | 220 | 224 | 252 | 258 |
| 66 | Vibrator Operator | 223 | 232 | 236 | 268 | 274 |
| 67 | Clerk / Typist / Typist Clerk | 237 | 247 | 251 | 284 | 291 |
| 68 | Earth Excavator | | | | | |
| | (a) For every 110 cubic feet of soft earth | 199 | 207 | 210 | 237 | 243 |
| | (b) For every 100 cubic feet of hard earth | 199 | 207 | 210 | 237 | 243 |
| | (c) For every 90 cubic feet of highly hard earth | 199 | 207 | 210 | 237 | 243 |
| 69 | Any other category of semi-skilled workers not mentioned above | 206 | 215 | 218 | 247 | 252 |
| 70 | Any other category of skilled workers not mentioned above | 251 | 262 | 266 | 301 | 307 |
| 71 | Highly skilled labour | 306 | 319 | 323 | 367 | 374 |

Note:-The above rates has been calculated as 2.336% increase in Labour Department Notification No. 4971 Dtd. 29.11.2016

CHAPTER-II

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)

The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | Enhanced by % as per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST 14% (In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|----------|----------------------------------|--|------------------------------------|--|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| | M-1 | Cement (as per T.E.C Letter No.23 dated 28.02.06.capacity of one bag of cement = 0.034 Cum) | | | | | | | | | | |
| | | (i) Ordinary Portland Cement (O.P.C-43 Grade) (Unit-Per bag of 50 kg) approved by State Level schedule rate Committee (for preparation of schedule of rate only) - Materials should conform to relevant BIS/IRC/MORT&H Specifications. | | | | | | | | | | |
| | | Patna | Per bags | 242.20 | 0 | 242.20 | 0 | 242.20 | 242.20 | 28 | 310.00 | 9118.00 |
| | | Muzaffarpur | Per bags | 242.20 | 0 | 242.20 | 0 | 242.20 | 242.20 | 28 | 310.00 | 9118.00 |
| | | Darbhanga | Per bags | 242.20 | 0 | 242.20 | 0 | 242.20 | 242.20 | 28 | 310.00 | 9118.00 |
| | | Bhagalpur | Per bags | 238.50 | 0 | 238.50 | 0 | 238.50 | 238.50 | 28 | 305.00 | 8971.00 |
| | | Munger | Per bags | 238.50 | 0 | 238.50 | 0 | 238.50 | 238.50 | 28 | 305.00 | 8971.00 |
| | | Saharsa | Per bags | 242.20 | 0 | 242.20 | 0 | 242.20 | 242.20 | 28 | 310.00 | 9118.00 |
| | | Purnea | Per bags | 242.20 | 0 | 242.20 | 0 | 242.20 | 242.20 | 28 | 310.00 | 9118.00 |
| | | Gaya | Per bags | 229.30 | 0 | 229.30 | 0 | 229.30 | 229.30 | 28 | 294.00 | 8647.00 |
| | | Saran | Per bags | 238.10 | 0 | 238.10 | 0 | 238.10 | 238.10 | 28 | 305.00 | 8971.00 |
| | M-2 | (ii) Ordinary Portland Cement (O.P.C-33 Grade) (Unit-Per bag of 50 kg) approved by State Level Committee (for preparation of schedule of rate only) - Materials should conform to relevant BIS/IRC/MORT&H Specifications. | | | | | | | | | | |
| | | Patna | Per bags | 214.80 | 0 | 214.80 | 0 | 214.80 | 214.80 | 28 | 275.00 | 8088.00 |
| | | Muzaffarpur | Per bags | 217.80 | 0 | 217.80 | 0 | 217.80 | 217.80 | 28 | 279.00 | 8206.00 |
| | | Darbhanga | Per bags | 224.90 | 0 | 224.90 | 0 | 224.90 | 224.90 | 28 | 288.00 | 8471.00 |
| | | Bhagalpur | Per bags | 224.90 | 0 | 224.90 | 0 | 224.90 | 224.90 | 28 | 288.00 | 8471.00 |
| | | Munger | Per bags | 224.90 | 0 | 224.90 | 0 | 224.90 | 224.90 | 28 | 288.00 | 8471.00 |
| | | Saharsa | Per bags | 232.30 | 0 | 232.30 | 0 | 232.30 | 232.30 | 28 | 297.00 | 8735.00 |
| | | Purnea | Per bags | 232.30 | 0 | 232.30 | 0 | 232.30 | 232.30 | 28 | 297.00 | 8735.00 |
| | | Gaya | Per bags | 203.30 | 0 | 203.30 | 0 | 203.30 | 203.30 | 28 | 260.00 | 7647.00 |
| | | Saran | Per bags | 217.80 | 0 | 217.80 | 0 | 217.80 | 217.80 | 28 | 279.00 | 8206.00 |
| | M-3A | (iii) Portland Pozzolana Cement (P.P.C) (Unit-Per bag of 50 kg) approved by State Level Committee (for preparation of schedule of rate only) - Materials should conform to relevant BIS/IRC/MORT&H Specifications. | | | | | | | | | | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)

The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price index | Revised rate without VAT & Royalty | per R.B.I.Price index | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|----------|----------------------------------|--|------------------------------------|-----------------------|----------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| | | Patna | Per bags | 214.80 | 0 | 214.80 | 0 | | 214.80 | 28 | 275.00 | 8088.00-- |
| | | Muzaffarpur | Per bags | 214.80 | 0 | 214.80 | 0 | | 214.80 | 28 | 275.00 | 8088.00 |
| | | Darbhanga | Per bags | 218.30 | 0 | 218.30 | 0 | | 218.30 | 28 | 279.00 | 8206.00 |
| | | Bhagalpur | Per bags | 214.80 | 0 | 214.80 | 0 | | 214.80 | 28 | 275.00 | 8088.00 |
| | | Munger | Per bags | 212.80 | 0 | 212.80 | 0 | | 212.80 | 28 | 272.00 | 8000.00 |
| | | Saharsa | Per bags | 218.30 | 0 | 218.30 | 0 | | 218.30 | 28 | 279.00 | 8206.00 |
| | | Purnea | Per bags | 218.30 | 0 | 218.30 | 0 | | 218.30 | 28 | 279.00 | 8206.00 |
| | | Gaya | Per bags | 188.80 | 0 | 188.80 | 0 | | 188.80 | 28 | 242.00 | 7118.00 |
| | | Saran | Per bags | 209.90 | 0 | 209.90 | 0 | | 209.90 | 28 | 269.00 | 7912.00 |
| | M-3B | (iv) Portland Slag Cement (P.S.C) (Unit-Per bag of 50 kg) approved by State Level Committee (for preparation of schedule of rate only)-Materials should conform to relevant BIS/IRC/MORT&H Specifications. | | | | | | | | | | |
| | | Patna | Per bags | 273.40 | 0 | 273.40 | 0 | | 273.40 | 28 | 350.00 | 10294.00 |
| | | Muzaffarpur | Per bags | 271.90 | 0 | 271.90 | 0 | | 271.90 | 28 | 348.00 | 10235.00 |
| | | Darbhanga | Per bags | 266.40 | 0 | 266.40 | 0 | | 266.40 | 28 | 341.00 | 10029.00 |
| | | Bhagalpur | Per bags | 272.70 | 0 | 272.70 | 0 | | 272.70 | 28 | 349.00 | 10265.00 |
| | | Munger | Per bags | 262.60 | 0 | 262.60 | 0 | | 262.60 | 28 | 336.00 | 9882.00 |
| | | Saharsa | Per bags | 271.10 | 0 | 271.10 | 0 | | 271.10 | 28 | 347.00 | 10206.00 |
| | | Purnea | Per bags | 266.40 | 0 | 266.40 | 0 | | 266.40 | 28 | 341.00 | 10029.00 |
| | | Gaya | Per bags | 261.70 | 0 | 261.70 | 0 | | 261.70 | 28 | 335.00 | 9853.00 |
| | | Saran | Per bags | 269.20 | 0 | 269.20 | 0 | | 269.20 | 28 | 345.00 | 10147.00 |
| 2 | M-4 | BITUMEN | | | | | | | | | | |
| | a | Bitumen Grade VG 40 (30/40) Packed | | | | | | | | | | |
| | | (i) Ex.Haldia | Per M.T | INPUT | 0 | #VALUE! | 0 | #VALUE! | #VALUE! | 18 | #VALUE! | |
| | | (ii) Ex.Barauni | Per M.T | INPUT | 0 | #VALUE! | 0 | #VALUE! | #VALUE! | 18 | #VALUE! | |
| | | (iii) Ex.Giddha | Per M.T | INPUT | 0 | #VALUE! | 0 | #VALUE! | #VALUE! | 18 | #VALUE! | |
| | | (iv) Ex.Patna | Per M.T | 28807.50 | 0 | 28807.50 | 0 | 28807.50 | 28807.50 | 18 | 33992.90 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by.....% as per R.B.I.Price index | 7 Revised rate without VAT & Royalty Enhanced By.....% as per R.B.I.Price Index | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN %(In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|---------|--|---|---|--------------|--|--|---|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | (v) Ex.Muzaffarpur | Per M.T | 29057.50 | 0 | 29057.50 | 0 | 29057.50 | 18 | 34287.90 | |
| | | (vi) Ex.Gaya | Per M.T | 28610.00 | 0 | 28610.00 | 0 | 28610.00 | 18 | 33759.80 | |
| | b | Bitumen Grade VG 30 (60/70) Packed | | | | | | | | | |
| | | (i) Ex. Barauni | Per M.T | 28000.00 | 0 | 28000.00 | 0 | 28000.00 | 18 | 33040.00 | |
| | | (ii) Ex. Gaya | Per M.T | 27880.00 | 0 | 27880.00 | 0 | 27880.00 | 18 | 32898.00 | |
| | | (iii) Ex. Patna | Per M.T | 28077.50 | 0 | 28077.50 | 0 | 28077.50 | 18 | 33131.00 | |
| | | (iv) Ex. Muzaffarpur | Per M.T | 28327.50 | 0 | 28327.50 | 0 | 28327.50 | 18 | 33426.00 | |
| | c | Bitumen Grade VG10 (80/100) Packed | | | | | | | | | |
| | | (i) Ex. Barauni | Per M.T | 27200.00 | 0 | 27200.00 | 0 | 27200.00 | 18 | 32096.00 | |
| | | (ii) Ex. Gaya | Per M.T | 27080.00 | 0 | 27080.00 | 0 | 27080.00 | 18 | 31954.00 | |
| | | (iii) Ex. Patna | Per M.T | 27277.50 | 0 | 27277.50 | 0 | 27277.50 | 18 | 32187.00 | |
| | | (iv) Ex. Muzaffarpur | Per M.T | 27527.50 | 0 | 27527.50 | 0 | 27527.50 | 18 | 32482.00 | |
| | d | Bitumen Grade VG30 (60/70) Bulk | | | | | | | | | |
| | | (i) Ex. Haldia | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | (ii) Ex. Barauni | Per M.T | 24220.00 | 0 | 24220.00 | | 24220.00 | 18 | 28579.60 | |
| | e | Bitumen Grade VG 10 (80/100) Bulk | | | | | | | | | |
| | | (i) Ex. Haldia | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | (ii) Ex. Barauni | Per M.T | 23420.00 | 0 | 23420.00 | | 23420.00 | 18 | 27635.60 | |
| | f | Modified Graded Bitumen | | | | | | | | | |
| | | (i) CRMB- 50 Packed Ex. Barauni | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | 0.00 | |
| | | (ii) CRMB- 50 Packed Ex. Muzaffarpur | Per M.T | INPUT | 0 | #REF! | | #REF! | 18 | #REF! | |
| | | (iii) CRMB- 50 Packed Ex. Gaya | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | (iv) CRMB- 50 Packed Ex. Patna | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | (v) CRMB- 55 Packed Ex. Barauni | Per M.T | INPUT | 0 | 0.00 | | 0.00 | 18 | 0.00 | |
| | | (vi) CRMB- 55 Packed Ex. Gaya | Per M.T | 32170.00 | 0 | 32170.00 | | 32170.00 | 18 | 37960.60 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Lat)st
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by % as per R.B.I.Price Index | 7 Revised rate without VAT & Royalty Enhanced by % as per R.B.I.Price Index | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN % (In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | 12 Reference | |
|---|---------------|---|---------|--|---|---|--------------|--|---|---|-----------------|--|
| 1 | 2 | (vii) CRMB- 55 Packed Ex. Patna | Per M.T | 32367.50 | 0 | 32367.50 | | 32367.50 | 18 | 38193.70 | | |
| | | (viii) CRMB- 55 Packed Ex. Muzaffarpur | Per M.T | 32617.50 | 0 | 32617.50 | | 32617.50 | 18 | 38488.70 | | |
| | | (ix) CRMB- 60 Packed Ex. Barauni | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | | |
| | | (x) CRMB- 60 Packed Ex. Patna | Per M.T | | 0 | 0.00 | | 0.00 | 18 | 0.00 | | |
| | | (xi) CRMB- 60 Packed Ex. Muzaffarpur | Per M.T | | 0 | 0.00 | | 0.00 | 18 | 0.00 | | |
| | | (xii) CRMB -60 Packed Ex. Gaya | Per M.T | | 0 | 0.00 | | 0.00 | 18 | 0.00 | | |
| | | Bitumen Emulsion | | | | | | | | | | |
| | | (A) RS1 (packed) Drum | | | | | | | | | | |
| | | (i) RS1 (packed) Drum Ex. Patna | Per M.T | 33645.00 | 0 | 33645.00 | | 33645.00 | 18 | 39701.10 | | |
| | | (ii) RS1 (packed) Drum Ex. Gaya | Per M.T | 33845.00 | 0 | 33845.00 | | 33845.00 | 18 | 39937.10 | | |
| | | (iii) RS1 (packed) Drum Ex. Muzaffarpur | Per M.T | 33395.00 | 0 | 33395.00 | | 33395.00 | 18 | 39406.10 | | |
| | | (B) MS (packed) Drum | | | | | | | | | | |
| (i) MS (packed) Drum Ex. Patna | Per M.T | 35281.00 | 0 | 35281.00 | | 35281.00 | 18 | 41631.50 | | | | |
| (ii) MS (packed) Drum Ex. Gaya | Per M.T | 35431.00 | 0 | 35431.00 | | 35431.00 | 18 | 41808.50 | | | | |
| (iii) MS (packed) Drum Ex. Muzaffarpur | Per M.T | 34981.00 | 0 | 34981.00 | | 34981.00 | 18 | 41277.50 | | | | |
| (c) SS1 (Packed) Drum | | | | | | | | | | | | |
| (i) SS1 (Packed) Drum Ex. Patna | Per M.T | 35895.00 | 0 | 35895.00 | | 35895.00 | 18 | 42356.10 | | | | |
| (ii) SS1 (Packed) Drum Ex. Gaya | Per M.T | 36095.00 | 0 | 36095.00 | | 36095.00 | 18 | 42592.10 | | | | |
| (iii) SS1 (Packed) Drum Ex. Muzaffarpur | Per M.T | 35645.00 | 0 | 35645.00 | | 35645.00 | 18 | 42061.10 | | | | |
| White Cement | | | | | | | | | | | | |
| 3 | M-5 | G.C sheets thickness in mm | | | | | | | | | | |
| | | ii. 0.63 | Per M.T | 46610.16 | 0 | 46610.16 | | 46610.16 | 18 | 55000.00 | | |
| | | iii. 0.50 | Per M.T | 48135.59 | 0 | 48135.59 | | 48135.59 | 18 | 56800.00 | | |
| | | iv. 0.40 | Per M.T | 63223.72 | 0 | 63223.72 | | 63223.72 | 18 | 74604.00 | | |
| | | v. 0.35 | Per M.T | 64561.01 | 0 | 64561.01 | | 64561.01 | 18 | 76182.00 | | |
| 5 | M-6 | Wire Rod in COIL | | | | | | | | | | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by % as index | 7 Revised rate without VAT & Royalty | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN %/(in Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | 12 Reference |
|--------|---------------|------------------------|---------|--|--------------------------------------|--|--------------|--|---|---|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | (i) 5.5mm | Per M.T | 34990.00 | 0 | 34990.00 | | 34990.00 | 18 | 41288.00 | |
| | | (ii) 6.0 mm | Per M.T | 34860.00 | 0 | 34860.00 | | 34860.00 | 18 | 41135.00 | |
| | | (iii) 6.5 mm | Per M.T | 34720.00 | 0 | 34720.00 | | 34720.00 | 18 | 40970.00 | |
| | | (iv) 7.0 mm | Per M.T | 34590.00 | 0 | 34590.00 | | 34590.00 | 18 | 40816.00 | |
| | | (v) 8.00 mm | Per M.T | 34460.00 | 0 | 34460.00 | | 34460.00 | 18 | 40663.00 | |
| | | (vi) 10.0 mm | Per M.T | 34990.00 | 0 | 34990.00 | | 34990.00 | 18 | 41288.00 | |
| | | (vii) 12.0/12.7 mm | Per M.T | 34990.00 | 0 | 34990.00 | | 34990.00 | 18 | 41288.00 | |
| 6 | M-7 | Joist size in mm | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | iv. 200x100 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | vi. 250x125 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | vii. 300x140 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | ix. 400x140 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | x. 450 x 150 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| | | xii. 600x210 | Per M.T | INPUT | 0 | INPUT | | INPUT | 18 | #VALUE! | |
| 7 | M-8 | Channel size in mm | Per M.T | INPUT | 0 | INPUT | | #REF! | 18 | #REF! | |
| | | i. 75x40 | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | ii. 100 x 50 | Per M.T | 34470.00 | 0 | 34470.00 | | 34470.00 | 18 | 40675.00 | |
| | | iii. 125 x 65 | Per M.T | 34470.00 | 0 | 34470.00 | | 34470.00 | 18 | 40675.00 | |
| | | iv. 150 x 75 | Per M.T | 34470.00 | 0 | 34470.00 | | 34470.00 | 18 | 40675.00 | |
| | | v. 175x75 | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | vi. 200 x 75 | Per M.T | input | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | vii. 250 x 82 | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | viii. 300 x 90 | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | ix. 400 x 100 | Per M.T | INPUT | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| 8 | M-9 | Steel Angle size in mm | Per M.T | input | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |
| | | i) 50 x50 x6 | Per M.T | input | 0 | #VALUE! | | #VALUE! | 18 | #VALUE! | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are Inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by % as per R.B.I.Price index | 7 Revised rate without VAT & Royalty per R.B.I.Price index | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN %(In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | 12 Reference |
|--------|---------------|---------------------------|---------|--|---|---|--------------|--|--|---|-----------------|
| 1 | 2 | | | | | | | | | | |
| | | ii) 60 x 60 x6 | Per M.T | input | 0 | #/VALUE! | | #/VALUE! | 18 | #/VALUE! | |
| | | iii) 65x65x6 | Per M.T | input | 0 | #/VALUE! | | #/VALUE! | 18 | #/VALUE! | |
| | | iv) 75 x75 x6 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | v) 80 x80 x8 /10 /12 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | vi) 90x90x6/8 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | vii) 100x100 x 8 /10 /12 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | viii) 110x110 x 8 /10 /12 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | ix) 130 x130 x10 /12 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | x) 150x150 x12 /16/20 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| | | xi) 200 x200 x16 /18 /20 | Per M.T | 34650.00 | 0 | 34650.00 | | 34650.00 | 18 | 40887.00 | |
| 9 | M-10A | T.M.T bars | | | | | | | | | |
| | | T.M.T Fe -500- 8 mm | Per M.T | 35030.00 | 0 | 35030.00 | | 35030.00 | 18 | 41335.00 | |
| | | T.M.T Fe -500- 10 mm | Per M.T | 34140.00 | 0 | 34140.00 | | 34140.00 | 18 | 40285.00 | |
| | | T.M.T Fe -500-12 mm | Per M.T | 33690.00 | 0 | 33690.00 | | 33690.00 | 18 | 39754.00 | |
| | | T.M.T Fe -500- 16 mm | Per M.T | 33960.00 | 0 | 33960.00 | | 33960.00 | 18 | 40073.00 | |
| | | T.M.T Fe -500-20 mm | Per M.T | 33690.00 | 0 | 33690.00 | | 33690.00 | 18 | 39754.00 | |
| | | T.M.T Fe -500-25 mm | Per M.T | 33690.00 | 0 | 33690.00 | | 33690.00 | 18 | 39754.00 | |
| | | T.M.T Fe -500-28 mm | Per M.T | 33690.00 | 0 | 33690.00 | | 33690.00 | 18 | 39754.00 | |
| | | T.M.T Fe -500- 32 mm | Per M.T | 33690.00 | 0 | 33690.00 | | 33690.00 | 18 | 39754.00 | |
| | | T.M.T Fe -500- 36 mm | Per M.T | INPUT | 0 | #/VALUE! | | #/VALUE! | 18 | #/VALUE! | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | Royalty | Revised Rate with Royalty and without GST | GST IN % (in Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|-------|---------------|---|------------|----------------------------------|--|------------------------------------|---------|---|------------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 10 | M-11 | 100A Bricks (Rate of 02.03.2017 of SCRC) | | | | | | | | | |
| | a | (i) For Urban Patna | Per %0 nos | 6850.00 | 0 | 6850.00 | 29.00 | 6879.00 | 5 | 7222.00 | |
| | | (ii) For Darbhanga, Bhagalpur, Munger & Muzaffarpur | Per %0 nos | 5775.00 | 0 | 5775.00 | 29.00 | 5804.00 | 5 | 6093.00 | |
| | | (iii) For Gaya & Saran | Per %0 nos | 5462.00 | 0 | 5462.00 | 29.00 | 5491.00 | 5 | 5764.00 | |
| | | (iv) For Saharsa | Per %0 nos | 5933.00 | 0 | 5933.00 | 29.00 | 5962.00 | 5 | 6259.00 | |
| | | (v) For Purnea | Per %0 nos | 6249.00 | 0 | 6249.00 | 29.00 | 6278.00 | 5 | 6590.00 | |
| | | (vi) For Rural Patna | Per %0 nos | 5698.00 | 0 | 5698.00 | 29.00 | 5727.00 | 5 | 6012.00 | |
| | b | (ii) 100B | | | | | | | | | |
| | | (i) For Urban Patna | Per %0 nos | 6355.00 | 0 | 6355.00 | 29.00 | 6384.00 | 5 | 6702.00 | |
| | | (ii) For Darbhanga, Bhagalpur, Munger & Muzaffarpur | Per %0 nos | 5302.00 | 0 | 5302.00 | 29.00 | 5331.00 | 5 | 5596.00 | |
| | | (iii) For Gaya & Saran | Per %0 nos | 4988.00 | 0 | 4988.00 | 29.00 | 5017.00 | 5 | 5266.00 | |
| | | (iv) For Saharsa | Per %0 nos | 5462.00 | 0 | 5462.00 | 29.00 | 5491.00 | 5 | 5764.00 | |
| | | (v) For Purnea | Per %0 nos | 5775.00 | 0 | 5775.00 | 29.00 | 5804.00 | 5 | 6093.00 | |
| | | (vi) For Rural Patna | Per %0 nos | 5204.00 | 0 | 5204.00 | 29.00 | 5233.00 | 5 | 5493.00 | |
| | c | (iii) Bricks Tiles (300mmx150mmx50mm) | | | | | | | | | |
| | | (i) For Urban Patna and Rural Patna | Per %0 nos | 6850.00 | 0 | 6850.00 | 29.00 | 6879.00 | 5 | 7222.00 | |
| | | (ii) For Saharsa, Bhagalpur, Darbhanga, & Muzaffarpur | Per %0 nos | 6880.00 | 0 | 6880.00 | 29.00 | 6909.00 | 5 | 7253.00 | |
| | | (iii) For Purnea | Per %0 nos | 7196.00 | 0 | 7196.00 | 29.00 | 7225.00 | 5 | 7585.00 | |
| | | (iv) For Other Places | Per %0 nos | 6564.00 | 0 | 6564.00 | 29.00 | 6593.00 | 5 | 6921.00 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|---|--------------------|----------------------------------|--|------------------------------------|-----------------------|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| | d | Picket Jhama Brick | | | | | | | | | | |
| | | (i) For Urban Patna | Per %0 nos | 5864.00 | 0 | 5864.00 | 29.00 | 5893.00 | 5 | 6186.00 | | |
| | | (ii) For Darbhanga, Bhagalpur, Munger & Muzaffarpur | Per %0 nos | 4831.00 | 0 | 4831.00 | 29.00 | 4860.00 | 5 | 5102.00 | | |
| | | (iii) For Gaya & Saran | Per %0 nos | 4511.00 | 0 | 4511.00 | 29.00 | 4540.00 | 5 | 4766.00 | | |
| | | (iv) For Purnea | Per %0 nos | 5302.00 | 0 | 5302.00 | 29.00 | 5331.00 | 5 | 5596.00 | | |
| | | (v) For Saharsa | Per %0 nos | 4988.00 | 0 | 4988.00 | 29.00 | 5017.00 | 5 | 5266.00 | | |
| | | (vi) For Rural Patna | Per %0 nos | 4722.00 | 0 | 4722.00 | 29.00 | 4751.00 | 5 | 4987.00 | | |
| | e | Brick Bats | | | | | | | | | | |
| | | (i) For Urban Patna | Per M ³ | 1200.40 | 0 | 1200.40 | 11.60 | 1212.00 | 5 | 1272.00 | | |
| | | (ii) For Purnea, Saharsa, Bhagalpur, Munger & Darbhanga | Per M ³ | 1151.40 | 0 | 1151.40 | 11.60 | 1163.00 | 5 | 1221.00 | | |
| | | (iii) For Rural Patna | Per M ³ | 1150.40 | 0 | 1150.40 | 11.60 | 1162.00 | 5 | 1220.00 | | |
| | | (iv) For Other Places | Per M ³ | 1100.40 | 0 | 1100.40 | 11.60 | 1112.00 | 5 | 1167.00 | | |
| | f | Jhama metal | | | | | | | | | | |
| | | (a) 63mm to 40mm size | | | | | | | | | | |
| | | (i) For Urban Patna | Per M ³ | 1428.40 | 0 | 1428.40 | 11.60 | 1440.00 | 5 | 1511.00 | | |
| | | (ii) For Purnea, Saharsa, Bhagalpur, Munger & Darbhanga | Per M ³ | 1367.40 | 0 | 1367.40 | 11.60 | 1379.00 | 5 | 1447.00 | | |
| | | (iii) For Rural Patna | Per M ³ | 1395.40 | 0 | 1395.40 | 11.60 | 1407.00 | 5 | 1477.00 | | |
| | | (iv) For Other Places | Per M ³ | 1339.40 | 0 | 1339.40 | 11.60 | 1351.00 | 5 | 1418.00 | | |
| | | (b) 40mm to 20mm size | | | | | | | | | | |
| | | (i) For Urban Patna | 3 | 1592.40 | 0 | 1592.40 | 11.60 | 1604.00 | 5 | 1684.00 | | |
| | | (ii) For Purnea, Saharsa, Bhagalpur, Munger & Darbhanga | 3 | 1526.40 | 0 | 1526.40 | 11.60 | 1538.00 | 5 | 1614.00 | | |
| | | (iii) For Rural Patna | 3 | 1544.40 | 0 | 1544.40 | 11.60 | 1556.00 | 5 | 1633.00 | | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|---|--------------------|----------------------------------|--|------------------------------------|-----------------------|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| | | River bed material (50% sand And 50% Quarry spall) | Per Cum | 140.45 | 0 | 140.45 | 75.00 | 215.45 | 5 | 222.45 | | |
| 24 | M-009 | Granular Material or hard murrum for GSB works at site | Per M ³ | 84.60 | 0 | 84.60 | 50 | 134.60 | 5 | 138.80 | | |
| 25 | M-010 | Granular Material or hard murrum for GSB works at Mixing Plant | Per Cum | 84.60 | 0 | 84.60 | 50 | 134.60 | 5 | 138.80 | | |
| 26 | M-011 | Fly ash conforming to IS: 3812 (Part II & I) at Plant | Per M ³ | #VALUE! | 0 | #VALUE! | 0 | Input | 5 | #VALUE! | | |
| 27 | M-012 | Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) | Per M ³ | 372.35 | 0 | 372.35 | 50 | 422.35 | 5 | 441.00 | | |
| 28 | M-013 | Close graded Granular sub-base Material 53 mm to 9.5 mm | Per M ³ | 483.99 | 0 | 483.99 | 50 | 533.99 | 5 | 558.20 | | |
| 29 | M-014 | Close graded Granular sub-base Material 37.5 mm to 9.5 mm | Per M ³ | 459.39 | 0 | 459.39 | 50 | 509.39 | 5 | 532.40 | | |
| 30 | M-015 | Close graded Granular sub-base Material 26.5 mm to 9.5 mm | Per M ³ | 522.28 | 0 | 522.28 | 50 | 572.28 | 5 | 598.40 | | |
| 31 | M-016 | Close graded Granular sub-base Material 9.5 mm to 4.75 mm | Per M ³ | 499.54 | 0 | 499.54 | 50 | 549.54 | 5 | 574.50 | | |
| 32 | M-017 | Close graded Granular sub-base Material 9.5 mm to 2.36 mm | Per M ³ | 374.94 | 0 | 374.94 | 50 | 424.94 | 5 | 443.70 | | |
| 33 | M-018 | Close graded Granular sub-base Material 4.75mm to 2.36 mm | Per M ³ | 158.57 | 0 | 158.57 | 50 | 208.57 | 5 | 216.50 | | |
| 34 | M-019 | Close graded Granular sub-base Material 4.75mm to 75 micron | Per M ³ | 143.61 | 0 | 143.61 | 50 | 193.61 | 5 | 200.80 | | |
| 35 | M-020 | Close graded Granular sub-base Material 2.36 mm | Per M ³ | 143.61 | 0 | 143.61 | 50 | 193.61 | 5 | 200.80 | | |
| 36 | M-021 | Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve. | Per M ³ | 91.64 | 0 | 91.64 | 9.16 | 100.80 | 5 | 105.40 | | |
| 37 | M-022 | Coarse graded Granular sub-base Material 2.36 mm & below | Per M ³ | 89.17 | 0 | 89.17 | 100 | 189.17 | 5 | 193.60 | | |
| 38 | M-023 | Coarse graded Granular sub-base Material 4.75mm to 75 micron mm | Per M ³ | 89.17 | 0 | 89.17 | 100 | 189.17 | 5 | 193.60 | | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | Enhanced by % as per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN % (In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|---|--------------------|----------------------------------|--|------------------------------------|--|---------|---|------------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 39 | M-024 | Coarse graded Granular sub-base Material 4.75 mm to 2.36mm | Per M ³ | 104.23 | 0 | 104.23 | 0 | 100 | 204.23 | 5 | 209.40 | |
| 40 | M-025 | Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm | Per M ³ | 445.10 | 0 | 445.10 | 0 | 100 | 545.10 | 5 | 567.40 | |
| 41 | M-026 | Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm | Per M ³ | 414.82 | 0 | 414.82 | 0 | 100 | 514.82 | 5 | 535.60 | |
| 42 | M-027 | Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm | Per M ³ | 467.84 | 0 | 467.84 | 0 | 100 | 567.84 | 5 | 591.20 | |
| 43 | M-028 | Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm | Per M ³ | 404.94 | 0 | 404.94 | 0 | 100 | 504.94 | 5 | 525.20 | |
| 44 | M-029 | Coarse graded Granular sub-base Material 53 mm to 26.5mm | Per M ³ | 371.71 | 0 | 371.71 | 0 | 100 | 471.71 | 5 | 490.30 | |
| 45 | M-030 | Aggregates below 5.6 mm | Per M ³ | 104.23 | 0 | 104.23 | 0 | 100 | 204.23 | 5 | 209.40 | |
| 46 | M-031 | Aggregates 22.4 mm to 2.36 mm | Per M ³ | 444.27 | 0 | 444.27 | 0 | 100 | 544.27 | 5 | 566.50 | |
| 47 | M-032 | Aggregates 22.4 mm to 5.6 mm | Per M ³ | 444.27 | 0 | 444.27 | 0 | 100 | 544.27 | 5 | 566.50 | |
| 48 | M-033 | Aggregates 45 mm to 2.8 mm | Per M ³ | 384.91 | 0 | 384.91 | 0 | 100 | 484.91 | 5 | 504.20 | |
| 49 | M-034 | Aggregates 45 mm to 22.4 mm | Per M ³ | 393.39 | 0 | 393.39 | 0 | 100 | 493.39 | 5 | 513.10 | |
| 50 | M-035 | Aggregates 53 mm to 2.8 mm | Per M ³ | 384.91 | 0 | 384.91 | 0 | 100 | 484.91 | 5 | 504.20 | |
| 51 | M-036 | Aggregates 53 mm to 22.4 mm (Grade III) | Per M ³ | 371.71 | 0 | 371.71 | 0 | 100 | 471.71 | 5 | 490.30 | |
| 52 | M-037 | Aggregates 63 mm to 2.8 mm | Per M ³ | 340.15 | 0 | 340.15 | 0 | 100 | 440.15 | 5 | 457.20 | |
| 53 | M-038 | Aggregates 63 mm to 45 mm (Grade II) | Per M ³ | 307.40 | 0 | 307.40 | 0 | 100 | 407.40 | 5 | 422.80 | |
| 54 | M-039 | Aggregates 90 mm to 45 mm (Grade I) | Per M ³ | 445.10 | 0 | 445.10 | 0 | 100 | 545.10 | 5 | 567.40 | |
| 55 | M-040 | Aggregates 10 mm to 5 mm | Per M ³ | 254.77 | 0 | 254.77 | 0 | 100 | 354.77 | 5 | 367.50 | |
| 56 | M-041 | Aggregates 11.2 mm to 0.09 mm (Key aggregate Type B) | Per M ³ | 383.98 | 0 | 383.98 | 0 | 100 | 483.98 | 5 | 503.20 | |
| 57 | M-042 | Aggregates 13.2 mm to 0.09 mm (Key aggregate Type A) | Per M ³ | 533.55 | 0 | 533.55 | 0 | 100 | 633.55 | 5 | 660.20 | |
| 58 | M-043 | Aggregates 13.2 mm to 5.6 mm | Per M ³ | 533.55 | 0 | 533.55 | 0 | 100 | 633.55 | 5 | 660.20 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Lat 3st)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | per R.B.I.Price Enhanced by % as | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|--------------------|----------------------------------|--|------------------------------------|---------------------------------------|----------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 59 | M-044 | Aggregates 13.2 mm to 10 mm | Per M ³ | 563.11 | 0 | 563.11 | 100 | 663.11 | 5 | 691.30 | | |
| 60 | M-045 | Aggregates 20 mm to 10 mm | Per M ³ | 563.11 | 0 | 563.11 | 100 | 663.11 | 5 | 691.30 | | |
| 61 | M-046 | Aggregates 25 mm to 10 mm | Per M ³ | 531.90 | 0 | 531.90 | 100 | 631.90 | 5 | 658.50 | | |
| 62 | M-047 | Aggregates 19 mm to 6 mm | Per M ³ | 444.27 | 0 | 444.27 | 100 | 544.27 | 6 | 570.90 | | |
| 63 | M-048 | Aggregates 37.5 mm to 19 mm (Grade IV) | Per M ³ | 393.39 | 0 | 393.39 | 100 | 493.39 | 5 | 513.10 | | |
| 64 | M-049 | Aggregates 37.5 mm to 25 mm | Per M ³ | 393.39 | 0 | 393.39 | 100 | 493.39 | 5 | 513.10 | | |
| 65 | M-050 | Aggregates 6 mm nominal size | Per M ³ | 320.37 | 0 | 320.37 | 100 | 420.37 | 5 | 436.40 | | |
| 66 | M-051 | Aggregates 10 mm nominal size | Per M ³ | 533.55 | 0 | 533.55 | 100 | 633.55 | 5 | 660.20 | | |
| 67 | M-052 | Aggregates 13.2/12.5 mm nominal size | Per M ³ | 563.11 | 0 | 563.11 | 100 | 663.11 | 5 | 691.30 | | |
| 68 | M-053 | Aggregates 20 mm nominal size | Per M ³ | 467.84 | 0 | 467.84 | 100 | 567.84 | 5 | 591.20 | | |
| 69 | M-054 | Aggregates 25 mm nominal size | Per M ³ | 441.34 | 0 | 441.34 | 100 | 541.34 | 5 | 563.40 | | |
| 70 | M-055 | Aggregates 40 mm nominal size | Per M ³ | 353.93 | 0 | 353.93 | 100 | 453.93 | 5 | 471.60 | | |
| 71 | M-056 | AC pipe 100 mm dia | metre | 47.11 | 0 | 47.11 | | 44.47 | input | #VALUE! | | |
| 72 | M-057 | Acrylic polymer bonding coat | litre | input | 0 | #VALUE! | | input | input | #VALUE! | | |
| 73 | M-058 | Aluminium Paint | litre | 121.54 | 0 | 121.54 | | 121.54 | 28 | 155.60 | | |
| 74 | M-059 | Aluminium alloy plate 2mm Thick | sqm | 9156.62 | 0 | 9156.62 | | 9156.62 | input | #VALUE! | | |
| 75 | M-060 | Aluminium alloy/galvanised steel | tonne | 36626.46 | 0 | 36626.46 | | 36626.46 | input | #VALUE! | | |
| 76 | M-061 | Aluminium sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc.and signs as applicable | sqm | 8546.18 | 0 | 8546.18 | | 8546.18 | input | #VALUE! | | |
| 77 | M-062 | Road Stud with Micro Prismatic lens reflectors (with shank) | each | 172.45 | 0 | 172.45 | | 172.45 | input | #VALUE! | | |
| 78 | M-063 | Barbed wire | kg | 54.61 | 0 | 54.61 | | 54.61 | 18 | 64.40 | | |
| 79 | M-064 | Bearing (Cost of parts) | nos | input | 0 | #VALUE! | | input | 18 | #VALUE! | | |
| 80 | M-065 | Bearing (Cast steel rocker bearing assembly of 250 tonne) | nos | 80639.15 | 0 | 80639.15 | | 80639.15 | input | #VALUE! | | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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| Sl.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by % as per R.B.I.Price Index | 7 Revised rate without VAT & Royalty | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN % (In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | 12 Reference |
|--------|---------------|--|----------|---------------------------------------|---|---|--------------|--|--|---|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 81 | M-066 | Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanisation) | cubic cm | 0.63 | 0 | 0.63 | | 0.63 | value | #VALUE! | |
| 82 | M-067 | Bearing (Forged steel roller bearing of 250 tonne) | nos | 48383.48 | 0 | 48383.48 | | 48383.48 | value | #VALUE! | |
| 83 | M-068 | Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/ fabricated structural steel assemblies duly painted with all components) | MT | 145.39 | 0 | 140.00 | | 145.39 | value | #VALUE! | |
| | | (a) Fixed POT-PTFE Bearing | MT | 145.39 | 0 | 140.00 | | 145.39 | value | #VALUE! | |
| | | (b) Free POT-PTFE Bearing | MT | 155.78 | 0 | 150.00 | | 155.78 | value | #VALUE! | |
| | | (c) Guide Slice (L) POT-PTFE Bearing | MT | 166.16 | 0 | 160.00 | | 166.16 | value | #VALUE! | |
| | | (d) Guide Slice (T) POT-PTFE Bearing | MT | 160.97 | 0 | 155.00 | | 160.97 | value | #VALUE! | |
| 84 | M-069 | Bearing (PTFE sliding plate bearing assembly of 80 T) | nos | input | 0 | #VALUE! | | input | value | #VALUE! | |
| 85 | M-070 | Bearing (Supply of sliding plate bearing of 80 tonne) | nos | 32581.47 | 0 | 32381.47 | | 32581.47 | value | #VALUE! | |
| 86 | M-071 | Bentonite | kg | 3.31 | 0 | 3.31 | | 3.31 | value | #VALUE! | |
| 87 | M-072 | Binding wire | kg | 55.55 | 0 | 55.55 | | 55.55 | value | #VALUE! | |
| 88 | M-073 | Bitumen (Cationic Emulsion) Ex- Patna(RS1)Packed | tonne | 40202 | 0 | 40202.00 | | 40202.00 | 18 | 65.50 | |
| 89 | M-074 | Bitumen (60-70 grade) Packed Ex- Barauni | tonne | 36676.1 | 0 | 36676.10 | | 36676.10 | 18 | 47438.40 | |
| 90 | M-075 | Bitumen (80-100 grade) Packed Ex- Barauni | tonne | 35764.1 | 0 | 35764.10 | | 35764.10 | 18 | 43277.80 | |
| 91 | M-076 | Bitumen (Cutback) Packed Ex- Barauni | tonne | 36676.1 | 0 | 36676.10 | | 36676.10 | 18 | 42201.60 | |
| 92 | M-077 | Bitumen (emulsion) Packed Ex- Patna (M.S) | tonne | 40202 | 0 | 40202.00 | | 40202.00 | 18 | 43277.80 | |
| 93 | M-078 | Bitumen (modified grade) Packed Ex - Barauni (CRMB - 55) | tonne | 39480.5 | 0 | 39480.50 | | 39480.50 | 18 | 47438.40 | |
| 94 | M-079 | Brick 100A for - Patna Urban, Darbhanga, Bhagalpur, Munger, Muzzafarpur, Gaya, Patna, Saran, Saharsa, Purnea | each | 6.88 | 0 | 6.88 | | 6.88 | 5 | 7.20 | |
| 95 | M-080 | C.I. shoes for the pile | kg | 46.26 | 0 | 46.26 | | 46.26 | input | #VALUE! | |
| 96 | M-081 | Cement - OPC 43 Grade at Patna | tonne | 5392.00 | 0 | 5392.00 | | 5392.00 | 28 | 6901.80 | |
| 97 | M-082 | Cold twisted bars (HYSD Bars) - Fe 500 | tonne | 40950.00 | 0 | 40950.00 | | 40950.00 | 18 | 48321.00 | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price index | Revised rate without VAT & Royalty | per R.B.I.Price index | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|---|---------|----------------------------------|--|------------------------------------|-----------------------|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 98 | M-083 | Collar for joints 300 mm dia | nos | input | 0 | #VALUE! | | | input | | #VALUE! | |
| 99 | M-084 | Compressible Fibre Board (20mm thick) | sgm | 989.71 | 0 | 989.71 | | | 989.71 | 18 | 1167.90 | |
| 100 | M-085 | Connectors / Staples | each | input | 0 | #VALUE! | | | input | 18 | #VALUE! | |
| 101 | M-086 | Copper Plate (12m long x 250mm wide) | kg | 690.78 | 0 | 690.78 | | | 690.78 | 18 | 815.10 | |
| 102 | M-087 | Corrosion resistant Structural steel | tonne | 43349.05 | 0 | 43349.05 | | | 43349.05 | 18 | 51151.90 | |
| 103 | M-088 | Corrugated sheet, 3 mm thick. "Thrie" beam section railing | kg | 46.8 | 0 | 46.80 | | | 46.8 | value | #VALUE! | |
| 104 | M-089 | Credit for excavated rock found suitable for use | cum | 147.01 | 0 | 147.01 | | | 147.01 | value | #VALUE! | |
| 105 | M-090 | Curing compound | litre | 125.41 | 0 | 125.41 | | | 125.41 | value | #VALUE! | |
| 106 | M-091 | Delineators from ISI certified firm as per the standard drawing given in IRC - 79 | each | 809.35 | 0 | 809.35 | | | 809.35 | value | #VALUE! | |
| 107 | M-092 | Earth Cost or compensation for earth taken from private land | cum | 23.65 | 0 | 23.65 | | | 23.65 | value | #VALUE! | |
| 108 | M-093 | Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II) | metre | 26885.89 | 0 | 26885.89 | | | 26885.89 | value | #VALUE! | |
| 109 | M-094 | Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each | 100 nos | 627.07 | 0 | 627.07 | | | 627.07 | 18 | 739.90 | |
| 110 | M-095 | Epoxy compound with accessories for preparing epoxy mortar | kg | 548.70 | 0 | 548.70 | | | 548.70 | value | #VALUE! | |
| 111 | M-096 | Epoxy mortar | kg | 752.49 | 0 | 752.49 | | | 752.49 | value | #VALUE! | |
| 112 | M-097 | Epoxy primer | kg | 12.54 | 0 | 12.54 | | | 12.54 | value | #VALUE! | |
| 113 | M-098 | Epoxy resin-hardner mix for prime coat | kg | 666.27 | 0 | 666.27 | | | 666.27 | value | #VALUE! | |
| 114 | M-099 | Flag of red color cloth 600 x 600 mm | each | 47.03 | 0 | 47.03 | | | 47.03 | value | #VALUE! | |
| 115 | M-100 | Flowering Plants | each | 31.36 | 0 | 31.36 | | | 31.36 | value | #VALUE! | |
| 116 | M-101 | Galvanised MS flat clamo | nos | 14.87 | 0 | 14.87 | | | 14.87 | value | #VALUE! | |
| 117 | M-102 | Galvanised steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. Gl wire in rolls of required size. | sqm | 96.86 | 0 | 96.86 | | | 96.86 | value | #VALUE! | |
| 118 | M-103 | Galvanised structural steel plate 200 mm wide, 6 mm thick, 24 m long | kg | 43.31 | 0 | 43.31 | | | 43.31 | value | #VALUE! | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by.....% as per R.B.I.Price index | 7 Revised rate without VAT & Royalty per R.B.I.Price index | 8 Royalty | 9 Revised Rate with GST | 10 GST IN %/In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|-------|--|---|---|--------------|-------------------------------|--|---|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 119 | M-104 | Gelatin 80% | kg | 931.39 | 0 | 931.39 | | 931.39 | 18 | 1099.00 | |
| 120 | M-105 | Geo grids | sqm | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 121 | M-106 | Geomembrane | sqm | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 122 | M-107 | Geonets | sqm | 107.78 | 0 | 107.78 | | 107.78 | input | #VALUE! | |
| 123 | M-108 | Geotextile | sqm | 84.26 | 0 | 84.26 | | 84.26 | input | #VALUE! | |
| 124 | M-109 | Geotextile filter fabric | sqm | 39.11 | 0 | 39.11 | | 39.11 | 12 | 43.80 | |
| 125 | M-110 | GI bolt 10 mm Dia | nos | 14.75 | 0 | 14.75 | | 14.75 | input | #VALUE! | |
| 126 | M-111 | Grouting pump with agitator | hour | 156.77 | 0 | 156.77 | | 156.77 | 12 | 175.60 | |
| 127 | M-112 | Grass (Doob) | kg | 4.06 | 0 | 4.06 | | 4.06 | input | #VALUE! | |
| 128 | M-113 | Grass (Fine) | kg | 4.06 | 0 | 4.06 | | 4.06 | input | #VALUE! | |
| 129 | M-114 | HDPE pipes 75mm dia | metre | 213.91 | 0 | 213.91 | | 213.91 | input | #VALUE! | |
| 130 | M-115 | HDPE pipes 90mm dia | metre | 213.91 | 0 | 213.91 | | 213.91 | input | #VALUE! | |
| 131 | M-116 | Hedge plants | each | 31.36 | 0 | 31.36 | | 31.36 | input | #VALUE! | |
| 132 | M-117 | Helical pipes 600mm diameter | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 133 | M-118 | Hot applied thermoplastic compound (Sp.gr. - 2.10) | litre | 203.95 | 0 | 203.95 | | input | input | #VALUE! | |
| 134 | M-119 | HTS strand | tonne | 66601.38 | 0 | 66601.38 | | 66601.38 | value | #VALUE! | |
| 135 | M-120 | Joint Sealant Compound | kg | 25.08 | 0 | 25.08 | | 25.08 | value | #VALUE! | |
| 136 | M-121 | Jute netting, open weave, 2.5 cm square opening for seeding and Mulching | sqm | 39.19 | 0 | 39.19 | | 39.19 | value | #VALUE! | |
| 137 | M-122 | LDO for steam curing | litre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 138 | M-123 | M.S. Clamps | nos | 32.08 | 0 | 32.08 | | 32.08 | 18 | 37.90 | |
| 139 | M-124 | M.S. Clamps | kg | 58.08 | 0 | 58.08 | | 58.08 | 18 | 68.50 | |
| 140 | M-125 | M.S. shoes @ 35 Kg per pile of 15 m | kg | 22.21 | 0 | 22.21 | | 22.21 | 18 | 26.20 | |
| 141 | M-126 | Mild Steel bars(Av-M6) | tonne | 39786 | 0 | 39786.00 | | 39786.00 | 18 | 46947.50 | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)

The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | Enhanced by % as per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN %(In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|-------|----------------------------------|--|------------------------------------|--|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 142 | M-127 | Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and upto 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative | metre | 29629.33 | 0 | 29629.33 | 0 | | 29629.33 | input | #VALUE! | |
| 143 | M-128 | Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and upto 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative | metre | input | 0 | #VALUE! | 0 | | input | input | #VALUE! | |
| 144 | M-129 | Nipples 12mm | nos | input | 0 | #VALUE! | 0 | | input | input | #VALUE! | |
| 145 | M-130 | Nuts and bolts | kg | 57.04 | 0 | 57.04 | 0 | | 57.04 | value | #VALUE! | |
| 146 | M-131 | Paint | litre | 240.39 | 0 | 240.39 | 0 | | 240.39 | value | #VALUE! | |
| 147 | M-132 | Pavement Marking Paint | litre | 240.39 | 0 | 240.39 | 0 | | 240.39 | value | #VALUE! | |
| 148 | M-133 | Paving Fabric | sqm | input | 0 | #VALUE! | 0 | | input | value | #VALUE! | |
| 149 | M-134 | Perforated geosynthetic pipe 150 mm dia | metre | 27.02 | 0 | 27.02 | 0 | | 27.02 | value | #VALUE! | |
| 150 | M-135 | Perforated pipe of cement concrete, internal dia 100 mm | metre | 114.09 | 0 | 114.09 | 0 | | 114.09 | value | #VALUE! | |
| 151 | M-136 | Pesticide | kg | 81.82 | 0 | 81.82 | 0 | | 81.82 | value | #VALUE! | |
| 152 | M-137 | Pipes 200 mm dia, 2.5 m long for drainage | metre | 174.30 | 0 | 174.30 | 0 | | 174.30 | value | #VALUE! | |
| 153 | M-138 | Plastic sheath, 1.25 mm thick for dowel bars | sqm | 15.67 | 0 | 15.67 | 0 | | 15.67 | value | #VALUE! | |
| 154 | M-139 | Plastic tubes 50 cm dia, 1.2 m high | nos | input | 0 | #VALUE! | 0 | | input | value | #VALUE! | |
| 155 | M-140 | Polymer braids | metre | input | 0 | #VALUE! | 0 | | input | value | #VALUE! | |
| 156 | M-141 | Pre moulded Joint filler, 25 mm thick for expansion joint. | sqm | 979.81 | 0 | 979.81 | 0 | | 979.81 | value | #VALUE! | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price index | Revised rate without VAT & Royalty | Royalty | Revised Rate with Royalty and without GST | GST IN % (in Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|-------|----------------------------------|--|------------------------------------|---------|---|------------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 157 | M-142 | Pre-coated stone chips of 13.2 mm nominal size | cum | 672.04 | 0 | 672.04 | | 672.04 | value | #VALUE! | |
| 158 | M-143 | Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanised in a single operation for the full length of a joint to ensure water tightness. | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 159 | M-144 | Pre-moulded asphalt filler board | sqm | 979.81 | 0 | 979.81 | | 979.81 | input | #VALUE! | |
| 160 | M-145 | Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days | kg | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 161 | M-146 | Primer | kg | 13.25 | 0 | 13.25 | | 13.25 | input | #VALUE! | |
| 162 | M-147 | Quick setting compound | kg | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 163 | M-148 | Random Rubble Stone | cum | 320.45 | 0 | 320.45 | | 320.45 | input | #VALUE! | |
| 164 | M-149 | RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia | metre | 2938.51 | 0 | 2938.51 | | 2938.51 | input | #VALUE! | |
| 165 | M-150 | RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia | metre | 4177.63 | 0 | 4177.63 | | 4177.63 | 28 | 3761.30 | |
| 166 | M-151 | RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia | metre | 538.14 | 0 | 538.14 | | 4177.63 | 28 | 5347.40 | |
| 167 | M-152 | Reflecting glass beads | kg | 66.28 | 0 | 66.28 | | 538.14 | 28 | 868.80 | |
| 168 | M-153 | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips) | metre | input | 0 | #VALUE! | | 66.28 | input | #VALUE! | |
| 169 | M-154 | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanised carbon steel strips) | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 170 | M-155 | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/fibre reinforced polymer/polymeric strips) | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 171 | M-156 | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips) | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 172 | M-157 | Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminium strips) | metre | input | 0 | #VALUE! | | input | input | #VALUE! | |
| 173 | M-158 | Rivets | each | 7.50 | 0 | 7.50 | | 7.50 | input | #VALUE! | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr. No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price Index | Revised rate without VAT & Royalty | per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN %(in Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|---------|---------------|--|-------|----------------------------------|--|------------------------------------|-----------------------|---------|---|-----------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 174 | M-159 | Sand bags (Cost of sand and Empty cement bag) | nos | 7.04 | 0 | 7.04 | 7.04 | | 7.04 | input | #VALUE! | |
| 175 | M-160 | Sapling 2 m high 25 mm dia | each | 23.52 | 0 | 23.52 | 23.52 | | 23.52 | input | #VALUE! | |
| 176 | M-161 | Scrap tyres of size 900 x 20 | nos | 78.38 | 0 | 78.38 | 78.38 | | 78.38 | input | #VALUE! | |
| 177 | M-162 | Seeds | kg | 31.36 | 0 | 31.36 | 31.36 | | 31.36 | input | #VALUE! | |
| 178 | M-163 | Selected earth (Including royalty @ Rs 22.0 per cum & compensation @ Rs 1.65 per cum) | cum | 23.65 | 0 | 23.65 | 23.65 | | 23.65 | input | #VALUE! | |
| 179 | M-164 | Separation Membrane of impermeable plastic sheeting 125 micron thick | sqm | 15.67 | 0 | 15.67 | 15.67 | | 15.67 | input | #VALUE! | |
| 180 | M-165 | Sheathing duct | metre | 86.23 | 0 | 86.23 | 86.23 | | 86.23 | input | #VALUE! | |
| 181 | M-166 | Shrubs | each | 15.67 | 0 | 15.67 | 15.67 | | 15.67 | input | #VALUE! | |
| 182 | M-167 | Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing | cum | 705.46 | 0 | 705.46 | 705.46 | | 705.46 | input | #VALUE! | |
| 183 | M-168 | Sodium vapour lamp | each | input | 0 | #VALUE! | #VALUE! | | input | input | #VALUE! | |
| 184 | M-169 | Square Rubble Coursed Stone | cum | 320.44 | 0 | 320.44 | 320.44 | | 320.44 | 5 | 336.50 | |
| 185 | M-170 | Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level | each | input | 0 | #VALUE! | #VALUE! | | input | 18 | #VALUE! | |
| 186 | M-171 | Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level | each | input | 0 | #VALUE! | #VALUE! | | input | input | #VALUE! | |
| 187 | M-172 | Steel drum 300 mm dia 1.2 m high/empty bitumen drum | nos | 120.07 | 0 | 120.07 | 120.07 | | 120.07 | input | #VALUE! | |
| 188 | M-173 | Steel helmet and cushion block on top of pile head during driving. | kg | 39.54 | 0 | 39.54 | 39.54 | | 39.54 | input | #VALUE! | |
| 189 | M-174 | Steel pipe 25 mm external dia as per IS:1239 | metre | 123.61 | 0 | 123.61 | 123.61 | | 123.61 | 18 | 145.90 | |
| 190 | M-175 | Steel pipe 50 mm external dia as per IS:1239 | metre | 221.22 | 0 | 221.22 | 221.22 | | 221.22 | 18 | 261.00 | |
| 191 | M-176 | Steel wire rope 20 mm | kg | 39.51 | 0 | 39.51 | 39.51 | | 39.51 | 18 | 46.60 | |
| 192 | M-177 | Steel wire rope 40 mm | kg | 39.51 | 0 | 39.51 | 39.51 | | 39.51 | 18 | 46.60 | |
| 193 | M-178 | Strip seal expansion joint | metre | 8341.1 | 0 | 8341.10 | 8341.1 | | 8341.1 | 18 | 9842.50 | |
| 194 | M-179 | Structural Steel | tonne | 40395 | 0 | 40395.00 | 40395.00 | | 40395.00 | 18 | 47666.10 | |
| 195 | M-180 | Super plastisizer admixture IS marked as per 9103-1999 | kg | 156.77 | 0 | 156.77 | 156.77 | | 156.77 | input | #VALUE! | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as index | Revised rate without VAT & Royalty | per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST II: % (In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|---|--------------------|----------------------------------|------------------------------|------------------------------------|-----------------------|---------|---|-------------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 196 | M-181 | Synthetic Geogrids as per clause 3102.8 and approved design and specifications. | sqm | input | 0 | #VALUE! | | | input | input | #VALUE! | |
| 197 | M-182 | Through and bond stone | each | 12.24 | 0 | 12.24 | | | 12.24 | input | #VALUE! | |
| 198 | M-183 | Tie rods 20mm diameter | nos | input | 0 | #VALUE! | | | input | input | #VALUE! | |
| 199 | M-184 | Tiles size 300 x 300 mm and 25 mm thick | each | 47.26 | 0 | 47.26 | | | 47.26 | input | #VALUE! | |
| 200 | M-185 | Timber | cum | 50479.19 | 0 | 50479.19 | | | 50479.19 | input | #VALUE! | |
| 201 | M-186 | Traffic cones with 150 mm reflective sleeve | nos | input | 0 | #VALUE! | | | input | input | #VALUE! | |
| 202 | M-187 | Tube anchorage set complete with bearing plate, permanent wedges etc | nos | 47.03 | 0 | 47.03 | | | 47.03 | input | #VALUE! | |
| 203 | M-188 | Unslaked lime | tonne | 3342.14 | 0 | 3342.14 | | | 3342.14 | input | #VALUE! | |
| 204 | M-189 | Water | KL | 235.14 | 0 | 235.14 | | | 235.14 | 0 | 235.10 | |
| 205 | M-190 | Water based cement paint | litre | 122.34 | 0 | 122.34 | | | 122.34 | input | #VALUE! | |
| 206 | M-191 | Welded steel wire fabric | kg | 38.24 | 0 | 38.24 | | | 38.24 | input | #VALUE! | |
| 207 | M-192 | Wire mesh 50mm x 50mm size of 3mm wire | kg | 38.24 | 0 | 38.24 | | | 38.24 | input | #VALUE! | |
| 208 | M-193 | Wooden ballies 2" Dia for bracing (Sal) | each | 25.08 | 0 | 25.08 | | | 38.24 | input | #VALUE! | |
| 209 | M-194 | Wooden ballies 8" Dia and 9 m long (9 m @ Rs 67.94/m) - Sal | each | 606.69 | 0 | 606.69 | | | 38.24 | input | #VALUE! | |
| 210 | M-195 | Wooden packing | cum | input | 0 | #VALUE! | | | 606.69 | input | #VALUE! | |
| 211 | M-196 | Wooden staff for fastening of flag 25 mm dia, 1.0 m long | each | 31.36 | 0 | 31.36 | | | input | 12 | #VALUE! | |
| 212 | M-197 | Bitumen (30/40 grade) Ex-Patna Packed | tonne | input | 0 | input | | | input | 12 | #VALUE! | |
| 213 | M-198 | Fly Ash Brick conforming to IS: 3812 (Part I & II) (Excluding the carriage cost* of Fly Ash from point of production to Kjin site) (*Carriage cost of fly ash is same as of sand)(Cost of 1000nos. is Rs. 5691) | each | 6.23 | 0 | 6.23 | | | input | 18 | #VALUE! | |
| 214 | M-199 | Paver Block | | | | | | | | 12 | 7.00 | |
| | | i) M -35 Grade and 60 mm thickness | | | | | | | | | | |
| | | (a) White | Per M ² | 466.3 | 0 | 457.26 | | | 466.3 | Input | #VALUE! | |
| | | (b) Red | Per M ² | 474.6 | 0 | 465.46 | | | 474.6 | Input | #VALUE! | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | 5 Basic rate without Tax & Royalty | 6 Enhanced by % as per R.B.I.Price index | 7 Revised rate without VAT & Royalty per R.B.I.Price Index | 8 Royalty | 9 Revised Rate with Royalty and without GST | 10 GST IN % (In Rate without Royalty) | 11 Revised Rate with ALL TAXES & ROYALTY | 12 Reference |
|--------|---------------|--|--------------------|--|---|---|--------------|--|---|---|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | (c) Yellow | Per M ² | 489.5 | 0 | 480.09 | | 489.5 | Input | #VALUE! | |
| | | ii) M-40 Grads and 80mm thickness | | | | | | | | | |
| | | (a) White | Per M ² | 535.1 | 0 | 524.80 | | 535.10 | | 535.10 | |
| | | (b) Red | Per M ² | 549.1 | 0 | 538.50 | | 549.10 | | 549.10 | |
| | | (c) Yellow | Per M ² | 566.8 | 0 | 555.84 | | 566.8 | | 566.80 | |
| 215 | M-200 | Ker-Stone Block-M30 Grade (size 375mmx300mmx150mm) | each | 79.94 | 0 | 79.94 | | 79.94 | | 79.90 | |
| 216 | M-201 | Autoclaved Atrated concrete(AAC) block | cum | 2261.4 | 0 | 2261.40 | | 2261.40 | | 2261.40 | |
| 217 | 1199 | Seasonal Sal wood Scantling | Per M ³ | 51046.22 | 0 | 51046.22 | | 51046.22 | | 54109.00 | |
| 218 | 1195 | Lccal Wood in scantling | Per M ³ | 32671.00 | 0 | 31670.00 | | 31670.00 | | 33253.00 | |
| 219 | 1196 | local wood Planks 25mm to 40mm | Per M ³ | 32671.00 | 0 | 32671.00 | | 31670.00 | | 33253.00 | |
| 220 | 1198 | Lccal wood Planks 12mm to 20mm | Per M ³ | 32671.00 | 0 | 32671.00 | | 31670.00 | | 33253.00 | |
| 221 | | Bamboo | | | | | | | | | |
| | | i. 75 mm dia 6m long to 8m long | Each | 141.50 | 0 | 141.50 | | 141.50 | | 142.00 | |
| | | ii. 100 mm dia 6m long to 8m long | Each | 151.00 | 0 | 151.00 | | 151.00 | | 151.00 | |
| | | iii. 50 mm dia Hill Bambo | Each | 94.35 | 0 | 94.35 | | 94.35 | | 94.00 | |
| 222 | | Sal Ballah Post | | | | | | | | | |
| | | i. 100 mm dia | Per M | input | 0 | INPUT | | Value | | #VALUE! | |
| | | ii. 125 mm dia | Per M | 28.57 | 0 | 28.57 | | 28.57 | | 28.60 | |
| | | iii. 150 mm dia | Per M | 38.39 | 0 | 38.39 | | 38.39 | | 38.40 | |
| 223 | | Wire | | | | | | | | | |
| | | i. G.I wire 3.15mm dia (IS 4826-79) | Per Kg | 60.95 | 0 | 54.24 | | 54.24 | 18 | 64.00 | |
| | | ii. Black annealed wire 3.15mm dia. (IS 280-78) | Per Kg | 57.100 | 0 | 51.27 | | 51.27 | 18 | 60.50 | |
| | | i. Annealed wire (20 to 25 gauge) | Per Kg | input | 0 | #VALUE! | | #VALUE! | | #VALUE! | |
| | | ii. Black annealed wire (8 to 10 gauge) | Per Kg | input | 0 | #VALUE! | | #VALUE! | | #VALUE! | |
| 224 | 1029 | Galvanised steel Barbed wire | Per M.T | 45870.68 | 0 | 45870.68 | | 45870.68 | 18 | 54109.40 | |
| | | Welded mesh (8 to 10 SWG) 100 to 125 mm square size | Per M ² | 94.44 | 0 | 94.44 | | 94.44 | 18 | 111.00 | |

LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
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|--------|---------------|--|--------------------|--|---|---|--------------|--|---|---|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 225 | 1213 | Ciko Powder / Impermo water proofing compound | Per Kg | 28.96 | 0 | 28.96 | | 28.96 | | 33.30 | |
| 226 | 1219 | Wire Nails | Per Kg | 60.76 | 0 | 60.76 | | 60.76 | | 64.41 | |
| 227 | | Narial coir string | Per Kg | 31.48 | 0 | 31.48 | | 31.48 | | 31.50 | |
| 228 | | Narial rope 20 mm to 25 mm dia | Per Kg | 39.81 | 0 | 39.81 | | 39.81 | | 39.80 | |
| 229 | | Narial rope above 25 mm dia | Per Kg | 48.15 | 0 | 48.15 | | 48.15 | | 48.20 | |
| 230 | | Sutali | Per Kg | 22.22 | 0 | 22.22 | | 22.22 | | 22.20 | |
| 231 | 322 | Sabey string | Per Kg | 16.67 | 0 | 16.67 | | 16.67 | | 16.70 | |
| 232 | 322 | Bitumen felt Type 3, grade I, confirming to IS 1322-1992 | Sqm | 58.90 | 0 | 58.90 | | 58.90 | | 62.43 | |
| 233 | 370 | Coal (steam) | Per quintal | | | | | 392.66 | | 416.22 | |
| 234 | 1207 | Limpmet washer G.I. (cadmium Coated) | Per % nos | | | | | 34.36 | | 36.42 | |
| 235 | 1208 | Bitumen washer | Per % nos | 30.70 | 0 | | | 29.44 | | 31.21 | |
| 236 | 341 | Flat pressed 3 layer particle board (medium density) Grade-I 12mm thick | Per M ² | | | | | 319.04 | | 338.18 | |
| 237 | 1701 | NP ₂ RCC 150mm dia. Hume pipe as per I.S 458-1971 | Per M | 190.02 | 0 | 190.02 | | 190.02 | 28 | 218.52 | |
| 238 | 1703 | NP ₂ RCC 300mm dia. Hume pipe as per I.S 458-1971 | Per M | 271.45 | 0 | 271.45 | | 271.45 | 28 | 312.17 | |
| 239 | 1706 | NP ₂ RCC 600mm dia. Hume pipe as per I.S 458-1971 | Per M | 832.45 | 0 | 832.45 | | 832.45 | 28 | 957.32 | |
| 240 | 1710 | NP ₂ RCC 1200mm dia. Hume pipe as per I.S 458-1971 | Per M | 1158.19 | 0 | 1158.19 | | 1158.19 | 28 | 1331.92 | |
| 241 | 1713 | NP ₂ RCC 150mm dia. Hume pipe as per I.S 458-1971 | Per M | 1741.82 | 0 | 1741.82 | | 1741.82 | 28 | 2003.09 | |
| 242 | 1715 | RCC Collars NP2 class Hume pipe 150mm dia. | Each | 31.67 | 0 | 31.67 | | 31.67 | | 36.42 | |
| 243 | 1717 | RCC Collars NP2 class Hume pipe 300mm dia. | Each | 49.77 | 0 | 49.77 | | 49.77 | | 57.23 | |
| 244 | 1720 | RCC Collars NP2 class Hume pipe 600mm dia. | Each | 126.68 | 0 | 126.68 | | 126.68 | | 145.63 | |
| 245 | 1724 | RCC Collars NP2 class Hume pipe 900mm dia. | Each | 212.63 | 0 | 212.63 | | 212.63 | | 244.53 | |
| 246 | 1727 | RCC Collars NP2 class Hume pipe 1200mm dia. | Each | 316.70 | 0 | 316.70 | | 316.70 | | 364.20 | |
| 247 | | (i) Analysis of rate of brick khoa (63 mm to 40 mm size) For 2.832 Cum Khoa (i) Material- 100B Bricks (Palma Urban) | 800nos | | | | 800 | 6702.00 | | 5361.60 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr.No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % | Enhanced by % as per R.B.I.Price index | Revised rate without VAT & Royalty | Enhanced by % as per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN % (In Rate without Royalty) | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|---------|----------------------------------|---------------------|--|------------------------------------|--|---------|---|------------------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | | (ii) Labour -Unskilled mazdoor | 3nos | | | | | | | | | | |
| | | Rate per Cum | | | | | | | | | | | |
| 248 | | For 2.832 Cum Khca (i) Material -100B Bricks (Palna Urban) | 850nos | | | | | | 850 | 6702.00 | | 5696.7 | |
| | | (ii) Labour- Unskilled mazdoor | 4nos | | | | | | 4 | 242.00 | | 968.00 | |
| | | Rate per Cum | | | | | | | | | | | |
| 249 | | (ii) Analysis of rate of brick khoa (20 mm and down) | | | | | | | | | | 2353.35 | |
| | | For 2.832 Cum Khca (i) Material- 100B Bricks (Palna Urban) | 900nos | | | | | | 900 | 6702.00 | | 6031.8 | |
| | | (ii) Labour- Unskilled mazdoor | 5nos | | | | | | 5 | 242.00 | | 1210.00 | |
| | | Rate per Cum | | | | | | | | | | 2557.13 | |
| 250 | | Pressure release valves (Vertical non return valve) | Each | INPUT | #REF! | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 251 | | Pocket valve (non return pocket valve) | Each | INPUT | #REF! | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 252 | | Safety valve | Each | INPUT | #REF! | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 253 | | Reflex valve | Each | INPUT | #REF! | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 254 | | Burnt clay pipe of internal dia 30 mm . External dia 31.75 mm | Each | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| | | (a) 100 mm long | Each | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| | | (b) 222mm long | Each | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 255 | | Jute | Per Kg | INPUT | 0 | 23.00 | 23.00 | 23.00 | | 23.00 | 0 | 23.00 | |
| 256 | | M.S Bends | Each | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 257 | | Rubber seal | metre | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 258 | | Sheet Pile | Per M.T | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 259 | | Tree branches of dia 150 mm to 200 mm and 3 M to 4.5 M long with jhankhi covering the space of 100 cft in volume | nos | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 260 | 0761 | Fuel (wood) | Kg | 4.91 | 0 | 4.91 | 4.91 | 4.91 | | 4.91 | 0 | 5.20 | |
| 261 | 0326 | Blasting Material/blasting fuse(Fuse coil) | nos | 14.73 | 0 | 14.73 | 14.73 | 14.73 | | 14.73 | | 15.61 | |
| 262 | | Cardium compound | kg | INPUT | 0 | #VALUE! | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 263 | | M.S. Bolt 20mm dia..25 Cm long | Each | 37.00 | 0 | 37.00 | 37.00 | 37.00 | | 37.00 | | 37.00 | |

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LIST OF APPROVED BASIC RATES OF CONSTRUCTION MATERIALS AT SOURCE (Latest)
 The rate are inclusive of all taxes and Royalty and Exclusive of Contractor's profit and Overhead charges

| Sr No. | Ref. Code No. | NAME OF MATERIALS | UNIT | Basic rate without Tax & Royalty | Enhanced by % as per R.B.I.Price index | Revised rate without VAT & Royalty | per R.B.I.Price Index | Royalty | Revised Rate with Royalty and without GST | GST IN % (In Rate with | Revised Rate with ALL TAXES & ROYALTY | Reference |
|--------|---------------|--|-----------|----------------------------------|--|------------------------------------|-----------------------|---------|---|------------------------|---------------------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 264 | 8509 | Special primer (C.W) | Litre | 81.48 | 0 | 81.48 | 81.48 | | 81.48 | | 86.37 | |
| 265 | 8510 | Metal Primer (U.G) | Litre | 117.80 | 0 | 117.80 | 117.80 | | 117.80 | | 124.87 | |
| 266 | 0818 | Oil/Fuel Linsed oil(double boiled) | lit | 107.98 | 0 | 107.98 | 107.98 | | 107.98 | | 114.46 | |
| 267 | | Electric Charge | K.W,H | INPUT | 0 | #VALUE! | #VALUE! | | #VALUE! | 0 | #VALUE! | |
| 268 | | Slotted pins and wedges 10 mm dia and 60 mm long | nos | INPUT | 0 | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 269 | | Tube and nuts 26 no. 25 mm dia and above | nos | INPUT | 0 | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 270 | | M.S Electrodes | nos | INPUT | 0 | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 271 | 818 | K.Oil | lit | 46.00 | | 46.00 | 46.00 | | 46.00 | 5 | 48.30 | |
| 272 | | Gun metal in gate | Kg | INPUT | 0 | #VALUE! | #VALUE! | | #VALUE! | | #VALUE! | |
| 273 | | Empty plastic cement bag | Per % nos | 254.70 | 0 | 254.70 | 254.70 | | 254.70 | 5 | 270.00 | |
| 274 | | Nylon Crate of size 1mx1mx1m (As per Annex-I) | Each | 34.90 | 0 | 35.24 | 35.24 | | 35.24 | | 37.00 | |
| 275 | | Geo bag (non woven) size 1mx0.70m (As per Annex-II) | nos | 93.40 | 0 | 93.40 | 93.40 | | 93.40 | 5 | 99.00 | |
| 276 | | Geo Bag of size 2mx1.5m (As per Annex-III) | nos | 614.15 | 0 | 614.15 | 614.15 | | 614.15 | 5 | 651.00 | |
| 277 | | P.P.Gabion of size 1.80mx1.80mx0.5m (As per Annex-I) | nos. | 1809.40 | 0 | 1809.40 | 1809.40 | | 1809.40 | 12 | 2026.50 | |
| 278 | 7754 | Gravel 5mm to 10mm | Cum | 1243.40 | 0 | 1243.40 | 1243.40 | | 1243.40 | 12 | 1392.50 | |
| | | Shalitec Board(For use as per expansion Joint) | | 687.16 | 0 | 687.16 | 687.16 | | 687.16 | 5 | 728.39 | |
| | | (i)25mm thick | Per Sqm | 537.96 | 0 | 537.96 | 537.96 | | 537.96 | | 538.00 | |
| | | (ii)12mm thick | Per Sqm | 307.41 | 0 | 307.41 | 307.41 | | 307.41 | | 307.40 | |
| 279 | | Shalitec Primer | Per Sqm | 450.93 | 0 | 450.93 | 450.93 | | 450.93 | | 450.90 | |
| 280 | 312 | Bitumen grade PMB-40 | Per litre | 37.04 | 0 | 37.04 | 37.04 | | 37.04 | | 37.00 | |
| | | M.T | M.T | 40640.92 | | 40640.92 | 40640.92 | | 40640.92 | 18 | 43079.37 | |

Note:- The Prevailing rate of GST (in Column 10) will be applicable for preparation of estimate.

CHAPTER - III

Schedule -P&M/ MORTH-1A

Date: 02.03.17

Approved Usages Rates of Plants and Machinery. The Usages charges for the machines include ownership charges, cost of repair & maintenance including replacement of tyre and running and operating charges which includes crew, fuel & lubricants. These rates are for the preparation of Schedule of Rates only

| Sl. No. | Description of Machine | Activity | Output of Machine | Output | Unit | Rate(Rs) |
|---------|--|----------------------------------|-------------------|-----------------|------|----------|
| P&M-001 | Air Compressor | General Purpose | capacity in | 170/250 | hour | 437.00 |
| P&M-002 | Batching and Mixing Plant (a) 30 cum capacity | Concrete Mixing | cum/hour | 20 | hour | 2775.00 |
| P&M-003 | Batching and Mixing Plant (b) 15 - 20 cum capacity | Concrete Mixing | cum/hour | 13 | hour | 1804.00 |
| P&M-004 | Bitumen Pressure Distributor | Applying bitumen tack coat | sqm/hour | 1750 | hour | 1463.00 |
| P&M-005 | Bitumen Boiler oil fired | Bitumen Spraying | capacity in litre | 1500 | hour | 270.00 |
| P&M-006 | Concrete Paver Finisher with 40 HP Motor | Paving of concrete surface | cum / hour | 20 | hour | 1333.00 |
| P&M-007 | Concrete Pump of 45 & 30 cum capacity | Pumping of concrete | cum / hour | 33 / 22 | hour | 349.00 |
| P&M-008 | Concrete Bucket | For Pouring concrete | capacity in cum | 1 | hour | 22.00 |
| P&M-009 | Concrete Mixer (a) 0.4/0.28 cum | Concrete Mixing | cum/hour | 2.5 | hour | 80.00 |
| P&M-010 | Concrete Mixer (b) 1 cum | Concrete Mixing | cum/hour | 7.5 | hour | 240.00 |
| P&M-011 | Crane (a) 80 tonnes | Lifting Purpose | | | hour | 1745.00 |
| P&M-012 | Crane (b) 35 tonnes | Lifting Purpose | | | hour | 1163.00 |
| P&M-013 | Crane (c) 3 tonnes | Lifting Purpose | | | hour | 487.00 |
| P&M-014 | Dozer D - 80 - A 12 | Spreading /Cutting / Clearing | cum/hour | 300/ 150/250 | hour | 5075.00 |
| P&M-015 | Dozer D - 50 - A 15 | Spreading /Cutting / Clearing | cum/hour | 200/ 120/150 | hour | 3009.00 |
| P&M-016 | Emulsion Pressure Distributor | Applying emulsion tack coat | sqm/hour | 1750 | hour | 1091.00 |
| P&M-017 | Front End loader 1 cum bucket capacity | Soil loading / Aggregate loading | cum/hour | 60 /25 | hour | 1291.00 |
| P&M-018 | Generator (a) 125 KVA | Generation of electric Energy | KVA | 100 | hour | 2502.00 |
| P&M-019 | Generator (b) 63 KVA | Generation of electric Energy | KVA | 50 | hour | 963.00 |
| P&M-020 | GSB Plant 50 cum | Producing GSB | cum/hour | 40 | hour | 1418.00 |
| P&M-021 | Hotmix Plant - 120 TPH capacity | DBM/BM/SDC/ Premix | cum/hour | 40 | hour | 48294.00 |
| P&M-022 | Hotmix Plant - 100 TPH capacity | DBM/BM/SDC/ Premix | cum/hour | 30 | hour | 36716.00 |

| | | | | | | |
|---------|--|---|-------------------|----------------|----------|----------|
| P&M-023 | Hotmix Plant - 60 to 90 TPH capacity | DBM/BM/SDC/ Premix | cum/hour | 25 | hour | 30931.00 |
| P&M-024 | Hotmix Plant - 40 to 60 TPH capacity | DBM/BM/SDC/ Premix | cum/hour | 17 | hour | 21633.00 |
| P&M-025 | Hydraulic Chip Spreader | Surface Dressing | sqm/hour | 1500 | hour | 3594.00 |
| P&M-026 | Hydraulic Excavator of 1 cum bucket | Soil Ordinary/Soil Marshy / Soil Unsuitable | cum/hour | 60 /60 /60 | hour | 1775.00 |
| P&M-027 | Integrated Stone Crusher 100THP | Crushing of Spalls | TPH | 100 | hour | 11820.00 |
| P&M-028 | Integrated Stone Crusher 200 THP | Crushing of Spalls | TPH | 200 | hour | 24865.00 |
| P&M-029 | Kerb Casting Machine | Kerb Making | Rm/hour | 80 | hour | 423.00 |
| P&M-030 | Mastic Cooker | Mastic Wearing coat | capacity in tonne | 1 | hour | 84.00 |
| P&M-031 | Mechanical Broom Hydraulic | Surface Cleaning | sqm/hour | 1250 | hour | 522.00 |
| P&M-032 | Motor Grader 3.35 mtr blade | Clearing /Spreading /GSB /WBM | cum/hour | 200/200/50 /50 | hour | 2674.00 |
| P&M-033 | Mobile slurry seal equipment | Mixing and laying slurry seal | sqm/hour | 2700 | hour | 1375.00 |
| P&M-034 | Paver Finisher Hydrostatic with sensor control 100 TPH | Paving of DBM/ BM/SDC/ Premix | cum/hour | 40 | hour | 3337.00 |
| P&M-035 | Paver Finisher Mechanical 75/ 100 TPH | Paving of WMM /Paving of DLC | cum/hour | 40/30 | hour | 1318.00 |
| P&M-036 | Piling Rig with Bantonite Pump | 0.75 m dia to 1.2 m dia Boring attachment | Rm/hour | 2 to 3 | hour | 7453.00 |
| P&M-037 | Pneumatic Road Roller | Rolling of Asphalt Surface | cum/hour | 25 | hour | 1698.00 |
| P&M-038 | Pneumatic Sinking Plant | Pneumatic Sinking of wells | cum/hour | 1.5 to 2.00 | hour | 5688.00 |
| P&M-039 | Pot Hole Repair Machine | Repair of potholes | cum/hour | 4 | hour | 1236.00 |
| P&M-040 | Prestressing Jack with Pump & access | Stressing of steel wires/stands | | | hour | 176.00 |
| P&M-041 | Ripper | Scarifying | cum/hour | 60 | hour | 39.00 |
| P&M-042 | Rotavator | Scarifying | cum/hour | 25 | hour | 24.00 |
| P&M-043 | Road marking machine | Road marking | Sqm/hour | 100 | hour | 128.00 |
| P&M-044 | Smooth Wheeled Roller 8 tonne | Soil Compaction /BM Compaction | cum/hour | 70/25 | hour | 736.00 |
| P&M-045 | Tandem Road Roller | Rolling of Aspalt Surface | cum/hour | 30 | hour | 1561.00 |
| P&M-046 | Tipper - 5 cum | Transportation of soil, GSB, WMM, Hotmix etc. | Capacity in cum | 5.5 | km | 33.50 |
| P&M-047 | Tipper - 5 cum | Transportation of soil, GSB, WMM, Hotmix etc. | Capacity in cum | 5.5 | tonne.km | 8.30 |

| | | | | | | |
|---------|---|---|-----------------|-----------|----------|---------|
| P&M-048 | Tipper -10T(out put- 5.5 cum,4.0 km/lt) | Transportation of soil, GSB, WMM, Hotmix etc. | Capacity in cum | 5.5 | hour | 957.00 |
| P&M-049 | Transit Mixer 4.0/4.5 cum | Transportation of Concrete Mix to site | cum/hour | 4.5 | hour | 1268.00 |
| P&M-050 | Transit Mixer 4/4.5 cum | Transportation of Concrete Mix to site | cum/hour | 4.5 | tonne.km | 6.30 |
| P&M-051 | Transit Mixer 3.0 cum | Transportation of Concrete Mix to site | cum/hour | 3 | hour | 1163.00 |
| P&M-052 | Transit Mixer 3.0 cum | Transportation of Concrete Mix to site | cum/hour | 3 | tonne.km | 8.38 |
| P&M-053 | Tractor | Pulling | capacity in HP | 50 | hour | 495.00 |
| P&M-054 | Tractor with Rotevator | Rate of Tractor + Rotevator | | | hour | 517.00 |
| P&M-055 | Tractor with Ripper | Rate of Tractor 6+ Ripper | | | hour | 533.00 |
| P&M-056 | Truck 5.5 cum per 10 tonnes | Material Transport | capacity/cum | 4.5 | km | 30.00 |
| P&M-057 | Truck 5.5 cum per 10 tonnes | Material Transport | capacity/cum | 4.5 | hour | 843.00 |
| P&M-058 | Truck 5.5 cum per 10 tonnes | Material Transport | capacity/cum | 4.5 | tonne.km | 3.14 |
| P&M-059 | Vibratory Roller 8 tonne | Earth or soil / GSB / WBM | cum/hour | 100/60/60 | hour | 1915.00 |
| P&M-060 | Water Tanker | Water Transport | capacity in KL | 6 | hour | 166.00 |
| P&M-061 | Water Tanker | Water Transport | capacity in KL | 6 | km | 34.00 |
| P&M-062 | Wet Mix Plant 60 TPH | Wet Mix | cum/hour | 25 | hour | 1643.00 |

| Sl. No. | Description of Machine | Unit | Rate (₹) |
|---------|--|------|------------|
| P&M-063 | Air compressor with pneumatic chisel attachment for cutting hard clay. | hour | 846.00 |
| P&M-064 | Batch type cold mixing plant 100-120 TPH capacity producing an average | hour | 3382.00 |
| P&M-065 | Belt conveyor system | hour | input |
| P&M-066 | Boat to carry atleast 20 persons | hour | 212.00 |
| P&M-067 | Cement concrete batch mix plant @ 175 cum per hour (effective output) | hour | 7102.00 |
| P&M-068 | Cement concrete batch mix plant @ 75 cum per hour | hour | 3043.00 |
| P&M-069 | Cold milling machine @ 20 cum per hour | hour | 1268.00 |
| P&M-070 | Crane 5 tonne capacity | hour | 1163.00 |
| P&M-071 | Crane 10 tonne capacity | hour | 1163.00 |
| P&M-072 | Crane 15 tonne capacity | hour | 1163.00 |
| P&M-073 | Crane 20 tonne capacity | hour | 1163.00 |
| P&M-074 | Crane 40 T capacity | hour | 1745.00 |
| P&M-075 | Crane with grab 0.75 cum capacity | hour | 1745.00 |
| P&M-076 | Compressor with guniting equipment along with accessories | hour | 212.00 |
| P&M-077 | Drum mix plant for cold mixes of appropriate capacity but not less than 75 | hour | 1643.00 |
| P&M-078 | Epoxy Injection gun | hour | 158.00 |
| P&M-079 | Generator 33 KVA | hour | 507.00 |
| P&M-080 | Generator 100 KVA | hour | 1842.00 |
| P&M-081 | Generator 250 KVA | hour | 3492.00 |
| P&M-082 | Induction, deinduction and erection of plant and equipment including all | hour | input |
| P&M-083 | Joint Cutting Machine with 2-3 blades (for rigid pavement) | hour | 317.00 |

| | | | |
|---------|---|------|---------|
| P&M-084 | Jack for Lifting 40 tonne lifting capacity. | day | 1163.00 |
| P&M-085 | Piling rig Including double acting pile driving hammer (Hydraulic rig) | hrs | 7453.00 |
| P&M-086 | Plate compactor | hour | 423.00 |
| P&M-087 | Snow blower equipment 140 HP @ 600 cum per hour | hour | input |
| P&M-088 | Texturing machine (for rigid pavement) | hour | 107.00 |
| P&M-089 | Truck Trailor 30 tonne capacity | hour | 3382.00 |
| P&M-090 | Truck Trailor 30 tonne capacity | t.km | 3.14 |
| P&M-091 | Tunnel Boring machine | hour | input |
| P&M-092 | Vibrating Pile driving hammer complete with power unit and accessories. | hour | input |
| P&M-093 | Wet Mix Plant 100 TPH | hour | 2719.00 |
| P&M-094 | Wet Mix Plant 75 TPH | hour | 2719.00 |



Schedule -P&M/ MORTH-1B

Date: 22.09.16

Approved Usages Rates of Plants and Machinery. The Usages charges for the machines include ownership charges, cost of repair & maintenance including replacement of tyre and running and operating charges which includes crew, fuel & lubricants. These rates are for the preparation of Schedule of Rates only

| Sl. No. | Description of Machine | Activity | Output of Machine | Output | Unit | Rate(Rs) |
|---------|---------------------------------|---|-------------------|----------|------|----------|
| 1 | WMM Paver Finisher | Paving of WMM/Paving of DLC | Cum/hour | | hour | 1519.00 |
| 2 | Tipping Truck 14Cum | Transportation of Soil,Gsb,WMM,Hot Mix etc. | Capacity in cum | | hour | 2175.00 |
| 3 | 6.5 KVA Generator | Generator of electric energy | KVA | | hour | 231.00 |
| 4 | Vibratory Earth Compactor | | Cum/hour | | hour | 1736.00 |
| 5 | Tractor(25 HP) | carriage | 25 HP | 2.25 cum | hour | 492.00 |
| 6 | 5 Kva silent Type Generator set | Generator of electric energy | KVA | | hour | 204.00 |




CHAPTER III

Usage Rate of Plant And Machinery
 TABULATION OF OPERATING & MAINTENANCE CREW ADOPTED IN THE HOURLY USE RATE OF EQUIPMENT

| S.N | Name of Equipment | Operation & Maintenance crew required for the operational of the MC | | | | | | | | | | | | | | | |
|------|--|---|----------|----------|--------|----------|-------------|------------|--------|----------|--------|---------|-----------|--------|---------|---------|---------|
| | | Fore-man | Operator | Mechanic | Helper | Watchman | Electrician | Supervisor | Driver | Cableman | Beldar | Cleaner | Changeman | Filter | Greaser | Khalasi | Tar man |
| 1 | Drill Jumbo | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 3.1 | Jack hammer (52 lb.) | 1/8 | 2 | 1/4 | 4 | 1/4 | | | | | | | | | | | |
| 3.2 | Scaling Hammer | | 1 | 1/8 | 1/2 | 1/8 | | 1/5 | | | | | | | | | |
| 3.3 | Diamond core drilling machine and diesel pump. | | 1 | | 1/2 | 1/10 | | 1/8 | | | | | | | | | |
| 3.4 | Weapon Drill | 1/8 | 2 | 1/4 | 3 | 1/4 | | | | | | | | | | | |
| 3.5 | Friction Breakers (65 lb or 28.8 Kg) | 1/8 | 1 | 1/8 | 1 | 1/4 | | | | | | | | | | | |
| 3.6 | Hot air (30 FT) | | | | | | | | | | | | | | | | |
| 3.7 | Shotcrete Machine | 1/8 | 1 | 1/8 | 1/2 | 1/8 | | | | | | | | | | | |
| 3.8 | Conveyer rollers (1.5 cubic yard 4" wide conveyer) | 1/8 | 1 | 1/2 | 1 | 1/4 | | | | | | | | | | | |
| 3.9 | Shovel (Diesel) 2 cum 282 H.P | 1/4 | 1 | 1/2 | 1 | 1/4 | | | | | | | | | | | |
| 3.10 | Shovel (Electric) 5 cum 350 H.P | 1/4 | 1 | 1/2 | 1 | 1/4 | | | | | | | | | | | |
| 3.11 | 6.8 Tractor Dozer Push Back H.P 270 | 1/4 | 1 | 1/2 | 1 | 1/4 | | 1/2 | 1 | | | | | | | | |
| 3.12 | 6.9 Tractor Dozer H.P 385 | 1/4 | 1 | 1/4 | 1 | 1/4 | | | 1 | | | | | | | | |
| 3.13 | Dumper (17) 4.5 cum | 1/8 | 1 | 1/8 | 1 | 1/6 | | | 1 | | | | | | | | |
| 3.14 | Rear Dumper (35) 17 cum | 1/4 | 1 | 1/6 | 1 | 1/6 | | | | | | | | | | | |
| 3.15 | Batching and mixing plant (25-35 cum) | 1/2 | 2 | 1/2 | 1 | 1/4 | | | | | 6 | | | | | | |
| 3.16 | Ventilation blower (2000cum) | 1/4 | 1/4 | 1/4 | 1/2 | 1 | | | | | | | | | | | |
| | Pump | | | | | | | | | | | | | | | | |
| | Electric Pump | | | | | | | | | | | | | | | | |
| | 10 H.P | | 1 | | | | | | | | | | | | | | |
| | 15 H.P | | | | | | | | | | | | | | | | |
| | 20 H.P | | | | | | | | | | | | | | | | |
| | 25 H.P | | | | | | | | | | | | | | | | |
| | 30 H.P | | | | | | | | | | | | | | | | |
| | 35 H.P | | | | | | | | | | | | | | | | |
| | 40 H.P | | | | | | | | | | | | | | | | |
| | 45 H.P | | | | | | | | | | | | | | | | |
| | 50 H.P | | | | | | | | | | | | | | | | |
| | Vacuum pumping set | | 1 | 1/4 | 1 | | | | | | | | | | | | |
| | 5 H.P | | 1 | | | | | | | | | | | | | | |
| | Roller | | | | | | | | | | | | | | | | |
| | Smooth drum (8-10 MT) | | | | | | | | | | | | | | | | |
| | Vibratory roller | 1/8 | 1 | 1/4 | 1 | 1/8 | | | | | | | | | | | |

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CHAPTER -III

TABULATION OF COST & LIFE OF MACHINES , FUEL CONSUMPTION , ADOPTED IN THE HOURLY USE RATE OF EQUIPMENT & ADOPTED USE RATE

| Sl No | Description of machine | | Life of Machine | | Repair provision % | Engine Horse Power | Fuel consumption per hours | | | Output of machine | | | Hourly use rate(By calculation) | | | Adopted Use Rate of Machine | |
|-------|--|--|-----------------|----------|--------------------|--------------------|----------------------------|--------|----------------------|-------------------|-------|------|---------------------------------|-----|----------|-----------------------------|--|
| | Machine | Activity | Year | In Hours | | | Qty | Unit | Output | Unit | Rates | Unit | Rate | Ref | Building | | |
| 1 | Dill Jumbo | Number of holes drilled simultaneously | 10 | 12000 | 80 | | | | | | | | | | | | |
| 3.1 | Jack hammer (52 lb) | Drilling | 10 | 10000 | 80 | | | | | | | | | | | | |
| 3.2 | Scaling hammer | Drilling | 10 | 10000 | 80 | | | | | | | | | | | | |
| 3.3 | Diamond core drilling machine and diesel pump. | Core samples | 8 | 8000 | 80 | 32.25 | l/hr | 0.5 | m ³ /hour | | | | | | | | |
| 3.4 | Wagon Drill | Drilling | 8 | 8000 | 80 | | | | | | | | | | | | |
| 3.5 | Pneumatic Breakers (85 lb or 38.6 Kg) | Drilling | 10 | 10000 | 80 | | | | | | | | | | | | |
| 3.6 | Hoist winch 30T | Pumping of | 12 | 15000 | 120 | | | | | | | | | | | | |
| 3.7 | Shelcrete Machine | Concrete | 10 | 15000 | 80 | | | | | | | | | | | | |
| 3.8 | Conveyer buckets (1.5 cubic yard 42" wide conveyor) or 1.5 cum | Transporting | 10 | 15000 | 100 | 123.09 | kwh | 76.5 | cum/hour | | | | | | | | |
| 3.9 | Shovel (Diesel) 2 cum 262 H.P | Excavation | 12 | 15000 | 150 | 262 | l/hr | 100 | cum/hour | | | | | | | | |
| 3.10 | Shovel (Electric) 5 cum 350 H.P | Excavation | 20 | 40000 | 150 | 350 | l/hr | 175.66 | kwh | | | | | | | | |
| 3.11 | D.S Tractor Dozer (Push Plate) H.P 270 | Spreading | 10 | 12000 | 100 | 270 | l/hr | 29.42 | kwh | | | | | | | | |
| a | D.S Tractor Dozer H.P 385 | Spreading | 10 | 12000 | 100 | 385 | l/hr | 41.56 | kwh | | | | | | | | |
| b | BD 50 Bulldozer with suitable diesel engine | Spreading, cutting | 10 | 12000 | 100 | 50 | l/hr | 5.45 | kwh | | | | | | | | |
| c | BD 30 Bulldozer with suitable diesel engine | Spreading, cutting | 10 | 12000 | 100 | 80 | l/hr | 8.72 | kwh | | | | | | | | |
| d | Dumper or Tipper (7 T) 4.5 cum | Transporting | 8 | 10000 | 140 | 110 | l/hr | 0.00 | kwh | | | | | | | | |
| e | Dumper or Tipper (10 T) 5.5 cum | Transporting | 8 | 10000 | 140 | 200 | l/hr | 21.79 | kwh | | | | | | | | |
| f | Rear Dumper (1.5 T) | Transporting | 8 | 10000 | 140 | 560 | l/hr | 61.02 | kwh | | | | | | | | |
| g | Rear Dumper (3.5 T) 17 cum | Transporting | 10 | 12000 | 140 | 80 | l/hr | 59.68 | kwh | | | | | | | | |
| h | Batching and mixing plant (35 cu yd/hr) x 27 cum | Batching and mixing plant (15-20 cum) | 18 | 30000 | 75 | 20 | kwh | 14.92 | kwh | | | | | | | | |
| i | Batching and mixing plant (15-20 cum) | Batching and mixing plant (20000cum) | 12 | 58000 | 80 | 5 | l/hr | 0.61 | kwh | | | | | | | | |
| j | Ventilation blower (20000cum) | Pumping | 12 | 58000 | 80 | 10 | l/hr | 1.21 | kwh | | | | | | | | |
| k | Dise | | | | | 15 | l/hr | 1.82 | kwh | | | | | | | | |
| l | 5 H.P | | 8 | 10000 | 100 | 20 | l/hr | 2.42 | kwh | | | | | | | | |
| m | 10 H.P | | 8 | 10000 | 100 | 25 | l/hr | 3.03 | kwh | | | | | | | | |
| n | 15 H.P | | 8 | 10000 | 100 | 30 | l/hr | 3.63 | kwh | | | | | | | | |
| o | 20 H.P | | 8 | 10000 | 100 | 3.73 | kwh | | | | | | | | | | |
| p | 25 H.P | | 8 | 10000 | 100 | | | | | | | | | | | | |
| q | 30 H.P | | 8 | 10000 | 100 | | | | | | | | | | | | |
| r | Electric Pump | | 8 | 10000 | 100 | | | | | | | | | | | | |
| s | 5 H.P | | 12 | 20000 | 70 | | | | | | | | | | | | |

| Item No. | Description | Unit | Quantity | Rate | Amount | Code |
|----------|---|--------|----------|-------|--------|---------|
| 3.30 | Water Tanker 6000(Liters) | Per hr | 10 | 22.00 | 220.00 | P&M-000 |
| 3.31 | Concrete buckets 3.05 cum 4 evyd | Per hr | 10 | 66.00 | 660.00 | P&M-000 |
| 3.32 | Trolley | Per hr | 10 | 22.00 | 220.00 | P&M-000 |
| 3.33 | Drill extractors (Compressed air) | Per hr | 8 | 15000 | 120000 | P&M-000 |
| 3.34 | Grinder | Per hr | 8 | 8000 | 64000 | P&M-000 |
| 3.35 | Sheet Pile Driving plan: | Per hr | 8 | 8000 | 64000 | P&M-000 |
| 3.36 | Loosier | Per hr | 10 | 15000 | 150000 | P&M-000 |
| 3.37 | From end loader 1.0cum bucket capacity | Per hr | 10 | 15000 | 150000 | P&M-000 |
| 3.38 | Overhead loader 1cu. Yd or 0.768 cum | Per hr | 10 | 15000 | 150000 | P&M-000 |
| 3.39 | Pneumatic concrete paiser (1 Cubic yard) or 0.768 cum | Per hr | 16 | 20000 | 320000 | P&M-000 |
| 3.40 | Diagnoses (Diesel) 2 cum 262 HP (Crane with grab) | Per hr | 10 | 10000 | 100000 | P&M-000 |
| 3.41 | Hydraulic excavators (Diesel) 1 cum bucket | Per hr | 12 | 15000 | 180000 | P&M-000 |
| 3.42 | Wet Mix Plant (Soil Stabilization Plant) 60 TPH | Per hr | 10 | 12000 | 120000 | P&M-000 |
| 3.43 | Agiling car 4cu.yd or 3.07 cum | Per hr | 10 | 12000 | 120000 | P&M-000 |
| 3.44 | Generator set | Per hr | 10 | 10000 | 100000 | P&M-000 |
| 3.45 | 250 KVA | Per hr | 15 | 30000 | 450000 | P&M-000 |
| 3.46 | 125 KVA | Per hr | 15 | 30000 | 450000 | P&M-000 |
| 3.47 | 100 KVA | Per hr | 15 | 30000 | 450000 | P&M-000 |
| 3.48 | 63 CV A | Per hr | 15 | 30000 | 450000 | P&M-000 |
| 3.49 | 33 CV A | Per hr | 10 | 20000 | 200000 | P&M-000 |
| 3.50 | Crushing & Processing Plant | Per hr | 10 | 18000 | 180000 | P&M-000 |
| 3.51 | Integrated Stone Crusher 100 TPH | Per hr | 12 | 16000 | 192000 | P&M-000 |
| 3.52 | Integrated Stone Crusher 200 TPH | Per hr | 12 | 16000 | 192000 | P&M-000 |
| 3.53 | 40 quintal capacity boat | Per hr | 8 | 35000 | 280000 | P&M-000 |
| 3.54 | 100 quintal capacity boat | Per hr | 8 | 35000 | 280000 | P&M-000 |
| 3.55 | 100 cumal capacity boat (Moler Filled) | Per hr | 8 | 35000 | 280000 | P&M-000 |
| 3.56 | Boat to carry atleast 20 persons | Per hr | 8 | 35000 | 280000 | P&M-000 |
| 3.57 | Bullock cart | Per hr | 8 | 40000 | 320000 | P&M-000 |
| 3.58 | Transit Mixer 4.0x4.5 cum | Per hr | 10 | 10000 | 100000 | P&M-000 |
| 3.59 | Transit Mixer 3.0 cum | Per hr | 10 | 10000 | 100000 | P&M-000 |

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CHAPTER ---III

| Machine Related Material | | | | | | |
|--------------------------|---|--------|---------|---------|---------------|---------|
| Sl.No | Material | Cost | Unit | Life of | Approved Rate | |
| | | | | | Material | Unit |
| 1 | Jumbo drill steel | IINPUT | per mtr | | IINPUT | per mtr |
| 2a. | Jack Hammer drill rod | IINPUT | per mtr | 130 | IINPUT | per mtr |
| 2b. | Jack Hammer drill bit | IINPUT | per mtr | 130 | IINPUT | per mtr |
| 3 | For Diamond core drilling machine | IINPUT | | | | |
| 3a | Diamond bit for N x size (53 mm to 75 mm)(Internal dia To External dia) 'D' | IINPUT | per mtr | 10 | IINPUT | per mtr |
| 3b | Diamond bit for (Bxsize (41mm to 59 mm)(Internal dia To External dia) 'T' | IINPUT | per mtr | 10 | IINPUT | per mtr |
| 3c | Tungston Carbide bit | IINPUT | per mtr | 20 | IINPUT | per mtr |
| 3d | (NxSize) Reaming shell 'S' | IINPUT | per mtr | 50 | IINPUT | per mtr |
| 3e | (BxSize) Reaming shell 'TK' | IINPUT | per mtr | 50 | IINPUT | per mtr |
| 3f | Reaming shell 'N' | IINPUT | per mtr | 100 | IINPUT | per mtr |
| 3g | Core box (wooden 3m long x 0.85 m wide x 0.15 m deep) with longitudinal compartment to accommodate 5 rows of 3 m long cores. i.e total 15 m | IINPUT | Each | | IINPUT | Each |
| 4 | Wagon Drill(Steel) equipment required with Wagon drill | IINPUT | | | | |
| 4a | Shank adopter | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4b | Coupling sleeves | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4c | Extension rod 1 x 3.00metre | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4d | Extension rod 1 x 2.50 metre | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4e | Extension rod 1 x 2.00 metre | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4f | Extension rod 1 x 1.50 metre | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4g | Extension rod 1 x 1.00 metre | IINPUT | per mtr | 460 | IINPUT | per mtr |
| 4h | Cost of 4 point drill bit | IINPUT | per mtr | 130 | IINPUT | per mtr |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|------------|---|----------|------|--------|----------|--------|
| 3.1 | Drill Jumbo | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | 0 | | | #VALUE! | A |
| B | Repaire and Maintenance charge | | | | | |
| | 60 % of Depreciation of machine /hr | 60 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel | | | | 0.00 | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | 0.00 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 2 | 30 | 295.00 | 17700.00 | |
| | ii.Helper | 4 | 30 | 258.00 | 30960.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Chowkidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 54933.75 | |
| | Direct labour charge per hr (Total labour charge/Working hr in year) | | | | 549.34 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.2 | Jack hammer (52 lb) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | | | | | |
| | 60 % | 60 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel compressed air | 100/100c | fm | | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | d.Pneumatic rubber hose pipe 38 mm with fitting per 100 working hrs | 15 | mtr | 46.80 | 7.02 | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii.Helper | 1/2 | 30 | 258.00 | 3870.00 | |
| | iii.Mechanic | 1/8 | 30 | 379.00 | 1421.25 | |
| | iv.Chawkidar | 1/8 | 30 | 250.00 | 937.50 | |
| | v. Supervisor | 1/5 | 30 | 399.00 | 2394.00 | |
| | Total Direct labour charge | | | | 15078.75 | Per hr |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|---|----------|---------|--------|----------|---------|
| | Direct labour charge per hr= Total labour charge/Working hr in year | | | | 180.95 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.2a | a. Jack Hammer drill rod | | | | | |
| | Cost of m drill rod at site | | per mtr | | IINPUT | Per mtr |
| | Economic life | 130 | mtr | | | |
| | Use rate of drill rod | | | | #VALUE! | |
| 3.2b | b. Jack Hammer drill bit | | | | | |
| | Cost of bit | | | | IINPUT | |
| | Economic life | 130 | mtr | | | |
| | Use rate of drill bit | | | | #VALUE! | Per mtr |
| 3.3 | Scalling hammer | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 60 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a. Fuel compressed air | 100 | /100cfm | | 0.00 | |
| | b. Lubricant and grease waste etc 25% of ab | 25 | % | | 0.00 | |
| | c. Sundries and miscellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| | Direct labour charge | Nos | Days | Rate | Amount | |
| | i. Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii. Helper | 1/2 | 30 | 258.00 | 3870.00 | |
| | iii. Chaukidar | 1/10 | 30 | 250.00 | 750.00 | |
| | iv. Supervisor | 1/8 | 30 | 399.00 | 1496.25 | |
| | Total Direct labour charge | | | | 13470.00 | |
| | Direct labour charge per hr | | | | 161.64 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.4 | Diamond core drilling machine and diesel pump. | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | input | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of Machines | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a. Fuel:-Diesel (2/3x0.5x0.6xH.Px4.54/8.26) | 14.29 | lit | 56.10 | 801.70 | |
| | b. Lubricant and grease waste etc 25% of ab | 25 | % | | 200.43 | |
| | c. Sundries and miscellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|--------|---|----------|---------|--------|----------|--------|
| 1 | For Drilling Machine | | | | | |
| | i.Operator Gr I | 2 | 30 | 295.00 | 17700.00 | |
| | ii.Helper | 3 | 30 | 258.00 | 23220.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1566.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Chaukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 47193.75 | |
| | Direct labour charge per hr | | | | 566.33 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.5 | Wagon Drill | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Compressed air | 400 | /100cfm | 0.00 | 0.00 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 0.00 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1566.25 | |
| | iv.Mechanic | 1/8 | 30 | 379.00 | 1421.25 | |
| | v.Chaukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | iv. Supervisor | 1/4 | 30 | 399.00 | 2992.50 | |
| | Total Direct labour charge | | | | 24435.00 | |
| | Direct labour charge per hr | | | | 293.22 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.7 | Hoist winch 30T | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Diesel | | lit | 56.10 | 0.00 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 0.00 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | | 30 | 295.00 | #VALUE! | |
| | ii.Helper | 0 | 30 | 258.00 | 0.00 | |
| | iii. Formen | 0 | 30 | 415.00 | 0.00 | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|------------|---|----------|---------------|---------|----------|------|
| | iv.Mechanic | 0 | 30 | 379.00 | 0.00 | |
| | v.Choukidar | 0 | 30 | 250.00 | 0.00 | |
| | iv. Supervisor | 0 | 30 | 399.00 | 0.00 | |
| | Total Direct labour charge | | | | #VALUE! | |
| | Direct labour charge per hr | | | | #VALUE! | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.8 | Shot crete Machine | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1500 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Compressed air | 600 | per100c fm | input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 25706.25 | |
| | Direct labour charge per hr | | | | 205.65 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.9 | Convey muckers (1.5 cubic yard42 "wide conveyor 165 | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in | 1500 | hrs | | | |
| | Depreciation of machine /hr = | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 100 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Electrical energy charge (H.Px0.746) | 123.09 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/6 | 30 | 379.00 | 1895.00 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 21916.25 | |
| | Direct labour charge per hr | | | | 175.33 | D |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|----------|---|----------|------|---------|----------|--------|
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.10 | Shovel (Diesel) 2 cum 262 H.P | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150.00 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Diesel (2/3x0.5xh.Px0.6x4.546/8.26) | 28.55 | lit | 56.10 | 1601.50 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 400.37 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | v.Chokidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | iv. Supervisor | 1 | 30 | 399.00 | 11970.00 | |
| | Total Direct labour charge | | | | 39232.50 | |
| | Direct labour charge per hr | | | | 376.63 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | Shovel (Electric) 5 cum 350 H.P | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 20 | Year | | | |
| | Rated life of machine | 40000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 2000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =350 | | | | | |
| | Electric energy required=350x0.746=261 KWH | | | | | |
| | Electric energy for 40 kv .A.C. control @ 0.80 | | | | | |
| | Power factor=40x0.80=32 KWH | | | | | |
| | Total Electric energy required=261+32=293 | | | | | |
| | KWH Assuming diversity factor @ 60 % | | | | | |
| | energy required=0.6x293=175.86 KWH | | | | | |
| | a.Electrical energy charge | 175.86 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | 0.00 | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 295.00 | 8850.00 | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|--|----------|------|--------|----------|--------|
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | v.Chokidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | vi. Electrician | 1/2 | 30 | 295.00 | 4425.00 | |
| | vii. Cableman | 2 | 30 | 252.00 | 15120.00 | |
| | viii.Supervisor | 1 | 30 | 399.00 | 11970.00 | |
| | Total Direct labour charge | | | | 58777.50 | |
| | Direct labour charge per hr | | | | 352.67 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.11 | D.8 Tractor Dozer (Push Plate) 270 H.P | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | | | | | |
| | | 100 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | Rated H.P=270 | | | | | |
| | Consumption of diesel oil= 0.5xB.H.P x0.6/8.26 Gallons / hr =0.04 BHP gallons / hr | | | | | |
| | Actual consumption adoped= 65 % or 2/3 of above | | | | | |
| | =0.026 BHPx4,546 litres/hr= | | | | | |
| | a.Fuel Diesel | 29.42 | lit | 56.10 | 1650.40 | |
| | b.Lubricant and grease waste | | | | | |
| | Hydraulic oil | 0.25 | lit | Input | #VALUE! | |
| | Petrol | 1 | lit | Input | #VALUE! | |
| | Lubricant oil | 0.75 | lit | Input | #VALUE! | |
| | Filter oil | 0.6 | lit | Input | #VALUE! | |
| | Gear oil | 0.25 | lit | 254.00 | 63.50 | |
| | Grease | 0.5 | kg | Input | #VALUE! | |
| | Cardium compound | 200 | gm | Input | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 15 % of | | | | | |
| | Total charge | 15 | % | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | | | | | |
| | i.Operator | 1 | 30 | 299.00 | 8970.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Chokidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 24540.00 | |
| | Direct labour charge per hr | | | | 245.40 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | D.9 Tractor Dozer 385 H.P | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|--|----------|------|------------------|----------|--------|
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 100 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | Rated H.P.=385 Consumption of diesel oil= 0.5xB.H.P x0.6/8.26 Gallons / hr =0.04 BHP gallons / hr Actual consumption adoped= 65 % or 2/3 of above =0.026 BHPx4.546 litres/hr | | | | | |
| | a.Fuel Diesel | 41.95 | lit | input | #VALUE! | |
| | b.Lubricant and grease waste | | | | | |
| | Hydraulic oil | 0.25 | lit | Input | #VALUE! | |
| | Petrol | 1 | lit | Input | #VALUE! | |
| | Lubricant oil | 0.75 | lit | Input | #VALUE! | |
| | Filter oil | 0.6 | lit | Input | #VALUE! | |
| | Gear oil | 0.25 | lit | 254.00 | 63.50 | |
| | Grease | 0.5 | kg | Input | #VALUE! | |
| | Cardium compound | 200 | gm | Input | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 15 % of | 15 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 26 | 299.00 | 7774.00 | |
| | ii.Helper | 1 | 26 | 258.00 | 6708.00 | |
| | iii.Formen | 1/4 | 26 | 415.00 | 2697.50 | |
| | iv.Mechanic | 1/4 | 26 | 379.00 | 2463.50 | |
| | v.Chokidar | 1/4 | 26 | 250.00 | 1625.00 | |
| | Total Direct labour charge | | | | 21268.00 | |
| | Direct labour charge per hr | | | | 212.68 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.12 | Dumper or Tipper(7T) 4.5 cum | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 140 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel (2/3X0.5XHPx0.6x4.546/8.26) | 11.99 | lit | 56.10 | 672.38 | |
| | b.Lubricant and grease waste etc 25% of | 25 | % | | 168.10 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 353.00 | 10590.00 | |
| | ii.Cleaner | 1 | 30 | 242.00 | 7260.00 | |
| | iv.Mechanic | 1/8 | 30 | 379.00 | 1421.25 | |
| | v.Chokidar | 1/6 | 30 | 250.00 | 1250.00 | |
| | Total Direct labour charge | | | | 20521.25 | |
| | Direct labour charge per hr | | | | 197.00 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | Dumper or Tipper(15 T) | | | Rear Dumper 35 T | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|--|----------|------|--------|----------|--------|
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 140 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =200 | | | | | |
| | a.Diesel (2/3X0.5XHPx0.6x4.546/8.26) | 21.79 | lit | 56.10 | 1222.52 | |
| | b.Lubricant and grease waste etc 25% of | 25 | % | | 305.63 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator | 1 | 30 | 353.00 | 10590.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/6 | 30 | 379.00 | 1895.00 | |
| | v.Choukidar | 1/6 | 30 | 250.00 | 1250.00 | |
| | Total Direct labour charge | | | | 23031.25 | |
| | Direct labour charge per hr | | | | 221.10 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | Dumper or Tipper (35 T) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 140 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =560 | | | | | |
| | a.Diesel (2/3X0.5XHPx0.6x4.546/8.26) | 61.02 | lit | 56.10 | 3423.05 | |
| | b.Lubricant and grease waste etc 25% of | 25 | % | | 855.76 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | | | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator | 1 | 30 | 353.00 | 10590.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 26160.00 | |
| | Direct labour charge per hr | | | | 261.60 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.13 | Batching and mixing plant (35cu.yd/hr) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 18 | Year | | | |
| | Rated life of machine | 30000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1666.67 | hrs | | | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|---|----------|------|---------|----------|----------|
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 100 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Electrical energy charge | 59.68 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 2 | 30 | 354.00 | 21240.00 | |
| | ii.Welder | 6 | 30 | 315.00 | 56700.00 | |
| | iii.Forment | - 1/2 | 30 | 415.00 | -6225.00 | |
| | iv.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | v.Choukidar | 1 | 30 | 250.00 | 7500.00 | |
| | Total Direct labour charge | | | | 84900.00 | |
| | Direct labour charge per hr | | | | 611.28 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.14 | Ventilation blower (20000cfm) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 58000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 4833.33 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of blower /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =20 | | | | | |
| | a.Electrical energy charge | 14.92 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator | 1/4 | 30 | 353.00 | 2647.50 | |
| | ii.Helper | 1/4 | 30 | 258.00 | 1935.00 | |
| | iii.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | Total Direct labour charge | | | | 10267.50 | |
| | Direct labour charge per hr | | | | 25.49 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|--------|---|----------|------|------------------------------|---------|---------|
| d | Running charges (P.O.L) | | | Unit = Rate = Amount = | 3.73 | 7.46 |
| | a. Electrical energy charge | | | | #VALUE! | #VALUE! |
| | b. Lubricant and grease waste etc 25% of above | 25 | % | | #VALUE! | #VALUE! |
| | c. Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | #VALUE! |
| | Total charge | | | | #VALUE! | #VALUE! |
| | Hire charge of Electric Pump Per /hour (a+b+c+d) | | | Per hour | #VALUE! | #VALUE! |
| | | | | | 11.19 | 22.38 |
| | | | | | 14.92 | 29.84 |
| | | | | | 37.30 | 74.60 |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|--------|--|----------|------|---------|----------|--------|
| (iii). | 5 H.P vacuum pumping set | | | | | |
| A | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 20000 | hrs | | | |
| | Working Hours per year (Rated life in | 1666.67 | hrs | | | |
| | a. Depreciation of machine /hr | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of blower /hr | 50 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =20 | | | | | |
| | a.Electrical energy charge | 3.73 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | #VALUE! | |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator | 1 | 26 | 295.00 | 7670 | |
| | Direct labour charge per hr | | | | 55.22 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.16 | Roller | | | | | |
| | Sheep foot roller | | | | | |
| A | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year | 1250 | hrs | | | |
| | a. Depreciation of machine /hr | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 70 | % | | #VALUE! | B |
| | Hourly use rate of Sheep foot roller | | | | #VALUE! | Per hr |
| 3.17 | Locomotives | | | | | |
| 1 | Diesel Locomotives | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 16000 | hrs | | | |
| | Working Hours per year (Rated life in | 1600 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 10.79 | lit | 56.10 | 605.16 | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | 151.29 | |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 24633.75 | |
| | Direct labour charge per hr | | | | 184.75 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 2 | Battery Locomotive | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 22 | Year | | | |
| | Rated life of machine | 40000 | hrs | | | |
| | Working Hours per year (Rated life in | 1818.18 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| | Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. | | | |
|-------------|--|----------|---------|--------|---------------|---------------|---------------|---------|---------|
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | | | | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | | | | |
| | iii.Foramen | 1/8 | 30 | 415.00 | 1556.25 | | | | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | | | | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | | | | |
| | Total Direct labour charge | | | | 24633.75 | | | | |
| | Direct labour charge per hr | | | | 162.58 | | | | |
| | Hourly use rate | | | | #VALUE! | Per hr | | | |
| 3.18 | Grouting machine | | | | | | | | |
| A | Depreciation charge | | | | | | | | |
| | Capital cost of machine | | | | IINPUT | | | | |
| | Life of machine | 10 | Year | | | | | | |
| | Rated life of machine | 10000 | hrs | | | | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A | | | |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 80 | % | | #VALUE! | B | | | |
| C | Running charges (P.O.L) | | | | | | | | |
| | H.P motor =110 | | | | | | | | |
| | a.Fuel Compressed air | 200.00 | /100cfm | input | #VALUE! | | | | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | | | | |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | | | | |
| | Total charge | | | | #VALUE! | C | | | |
| D | Labour charge | | | | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | | | | |
| | i.Driver | 1 | 30 | 249.00 | 7470.00 | | | | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | | | | |
| | iii.Foramen | 1/8 | 30 | 415.00 | 1556.25 | | | | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 1895.00 | | | | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1250.00 | | | | |
| | Total Direct labour charge | | | | 19911.25 | | | | |
| | Direct labour charge per hr | | | | 238.94 | | | | |
| | Hourly use rate | | | | #VALUE! | Per hr | | | |
| 3.19 | Air Compressor. | | | | | | | | |
| A | Diesel compressors | | | | | | | | |
| | 1.Diesel Air compressorcfm | | | | 210cfm | 300cfm | 500cfm | | |
| A | Depreciation charge | | | | | | | | |
| | Capital cost of machine | | | | IINPUT | IINPUT | IINPUT | | |
| | Life of machine | 8 | Year | | | | | | |
| | Rated life of machine | 10000 | hrs | | | | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A | #VALUE! | #VALUE! | |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 100 | % | | #VALUE! | B | #VALUE! | #VALUE! | |
| C | Running charges (P.O.L) | | | | | | | | |
| | H.P motor =110 | | | | | | | | |
| | a.Diesel | 6.77 | lit | 56.10 | 379.77 | 10.38 | 582.31 | 16.13 | 904.66 |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 94.94 | | 145.56 | | 226.17 |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | | #VALUE! | | #VALUE! |
| | Total charge | | | | #VALUE! | C | #VALUE! | | #VALUE! |
| D | Labour charge | | | | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | Amount | Amount | | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | 7950.00 | 7950.00 | | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | 7740.00 | 7740.00 | | |
| | iii.Foramen | 1/8 | 30 | 415.00 | 1556.25 | 1556.25 | 1556.25 | | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | 2842.50 | 2842.50 | | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | 1875.00 | 1875.00 | | |
| | Total Direct labour charge | | | | 21963.75 | 21963.75 | 21963.75 | | |
| | Direct labour charge per hr | | | | 210.85 | D | 210.85 | | |
| | Hourly use rate | | | | #VALUE! | Per hr | #VALUE! | Per hr | #VALUE! |
| B | Electric compressors | | | | | | | | |
| | 1.Electric Air compressor 500 cfm | | | | | | | | |
| A | Depreciation charge | | | | | | | | |
| | Capital cost of machine | | | | IINPUT | | | | |
| | Life of machine | 12 | Year | | | | | | |
| | Rated life of machine | 20000 | hrs | | | | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1666.67 | hrs | | | | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Tated life of | | | | #VALUE! | A | | | |
| B | Repaire and Maintenance charge % of | 80 | % | | #VALUE! | B | | | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|--|----------|------|---------|----------|--------|
| C | Running charges (P.O.L) | | | | | |
| | HP motor =110 | | | | | |
| | a.Electrical energy charge | 90.00 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/MB) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Electrician | 1/2 | 30 | 249.00 | 3735.00 | |
| | vi.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 25698.75 | |
| | Direct labour charge per hr | | | | 185.03 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | 2.Electric Air compressor 1500 cfm | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in hrs) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | HP motor =110 | | | | | |
| | a.Electrical energy charge | 240.00 | KWH | #VALUE! | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/MB) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/3 | 30 | 379.00 | 3790.00 | |
| | v.Electrician | 1/2 | 30 | 249.00 | 3735.00 | |
| | vi.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 26646.25 | |
| | Direct labour charge per hr | | | | 319.76 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.20 | Crane | | | | | |
| | Crawler Mounted 10 T | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | HP motor =110 | | | | | |
| | a.Diesel | 3.50 | lit | 56.10 | 196.35 | |
| | ii.Petrol | 8.00 | lit | Input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | vi.Supervisor | 1/4 | 31 | 338.00 | 2619.50 | |
| | Total Direct labour charge | | | | 26190.00 | |
| | Direct labour charge per hr | | | | 261.90 | |
| | Hourly use rate | | | | #VALUE! | Per hr |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|---|----------|------|--------|----------|--------|
| 3.21 | Muck / car (12 cubic yard) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 20 | Year | | | |
| | Rated life of machine | 30000 | hrs | | | |
| | Working Hours per year (Rated life in | 1500 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| | Running charges (P.O.L) | | | | | |
| | Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| C | Hourly use rate | | | | #VALUE! | Per hr |
| 3.22 | Vibrator | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | 21840.00 | |
| | Life of machine | 5 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1600 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | 2.46 | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150 | % | | 3.69 | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =5 | | | | | |
| | a.Diesel | 0.50 | lit | 62.80 | 31.29 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 7.82 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | 0.37 | |
| | Total charge | | | | 39.48 | C |
| D | Labour charge | | | | | |
| (e) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 274.00 | 8220.00 | |
| | Total Direct labour charge | | | | 8220.00 | |
| | Direct labour charge per hr | | | | 61.65 | |
| | Hourly use rate | | | | 107.27 | Per hr |
| 3.23 | Scraper | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 9000 | hrs | | | |
| | Working Hours per year (Rated life in | 1125 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 17.98 | lit | 62.80 | 1129.03 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 282.26 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/4 | 30 | 415.00 | 3112.50 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Cheukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 26190.00 | |
| | Direct labour charge per hr | | | | 279.36 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.24 | GRADER 110 hp | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|--------|--|----------|---------|--------|----------|---------|
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | HP motor =110 | | | | | |
| | a.Diesel | 12.53 | lit | 62.80 | 786.90 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 196.73 | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 258.00 | 7740.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 0 | 30 | 379.00 | 0.00 | |
| | v.Choukidar | 1/2 | 30 | 250.00 | 3750.00 | |
| | Total Direct labour charge | | | | 23666.25 | |
| | Direct labour charge per hr | | | | 236.66 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.28 | Tractors | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | input | |
| | Life of machine | 5 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in | 2400 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | HP motor =110 | | | | | |
| | a.Diesel | 2.75 | lit | 62.80 | 172.70 | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | 43.18 | |
| | c.Sundries and miseellenceous supplies at site | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 299.00 | 8970.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | Total Direct labour charge | | | | 15570.00 | |
| | Direct labour charge per hr | | | | 77.85 | D |
| | Hourly use rate | | | | #VALUE! | Per hr |
| | Hire charge of Tractor per day | | | | #VALUE! | Per day |
| 3.32 | Drill extractors (Compressed air) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repaire and Maintenance charge % of Depreciation of machine /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Compressed air | 400 | /100cfm | input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miseellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/8 | 30 | 379.00 | 1421.25 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | iv. Supervisor | 1/4 | 30 | 338.00 | 2535.00 | |
| | Total Direct labour charge | | | | 21937.50 | |
| | Direct labour charge per hr | | | | 263.25 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.33 | Grinder | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|---|----------|---------|--------|----------|------|
| | Life of machine | 8 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 80 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Compressed air | 400 | /100cfm | input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of a) | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/8 | 30 | 379.00 | 1421.25 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 19402.50 | |
| | Direct labour charge per hr | | | | 232.83 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.34 | Sheet Pile Driving plant | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | INPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in | 1500 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 50 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | a.Fuel Compressed air | 400 | /100cfm | input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of a) | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Operator Gr I | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/4 | 30 | 250.00 | 1875.00 | |
| | Total Direct labour charge | | | | 20823.75 | |
| | Direct labour charge per hr | | | | 166.59 | D |
| | Hourly use rate | | | | #VALUE! | |
| 3.35 | Loader | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | INPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in | 1500 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | 12.79 | lit | 62.80 | 803.42 | |
| | a.Diesel | 25 | % | | 200.85 | |
| | b.Lubricant and grease waste etc 25% of a) | 25 | % | | 200.85 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Chokidar | 1/2 | 30 | 250.00 | 3750.00 | |
| | Total Direct labour charge | | | | 22698.75 | |
| | Direct labour charge per hr | | | | 181.59 | |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|--|----------|---------|--------|----------|--------|
| | Hourly use rate | | | | #VALUE! | Per hr |
| | Overhead loader 1cu. yd | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 16 | Year | | | |
| | Rated life of machine | 20000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 70 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 119.36 | lit | 62.80 | 7495.81 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 1873.95 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Chokidar | 1/6 | 30 | 250.00 | 1250.00 | |
| | Total Direct labour charge | | | | 20198.75 | |
| | Direct labour charge per hr | | | | 193.91 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.36 | Pneumatic concrete placer (1 CUBIC YARD) | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Fuel Compressed air | 200.00 | /100cfm | input | #VALUE! | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | #VALUE! | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 265.00 | 7950.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/8 | 30 | 415.00 | 1556.25 | |
| | iv.Mechanic | 1/6 | 30 | 379.00 | 1895.00 | |
| | v.Chokidar | 1/6 | 30 | 250.00 | 1250.00 | |
| | Total Direct labour charge | | | | 19251.25 | |
| | Direct labour charge per hr | | | | 231.02 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.37 | Draqlines 2 cum 262 H.P | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 15000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1250 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of | | | | | |
| | Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 28.55 | lit | 62.80 | 1792.77 | |
| | b.Lubricant and grease waste etc 25% of ab | 25 | % | | 448.19 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |

CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. |
|-------------|---|----------|------|---------|----------|--------|
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/4 | 30 | 354.00 | 2655.00 | |
| | iv.Mechanic | 1/2 | 30 | 379.00 | 5685.00 | |
| | v.Chokidar | 1/4 | 30 | 213.00 | 1597.50 | |
| | Total Direct labour charge | | | | 27157.50 | |
| | Direct labour charge per hr | | | | 260.71 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.38 | Hydraulic excavators (Diesel) 1.25cu.yd | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | input | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 12000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1200 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 11.28 | lit | 62.80 | 708.21 | |
| | b.Lubricant and grease waste etc 25% of a) | 25 | % | | 177.05 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 10620.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | |
| | iii.Formen | 1/4 | 30 | 354.00 | 2655.00 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/4 | 30 | 213.00 | 1597.50 | |
| | Total Direct labour charge | | | | 24315.00 | |
| | Direct labour charge per hr | | | | 243.15 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.40 | Agitating car 4cu.yd | | | | | |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | |
| | Life of machine | 10 | Year | | | |
| | Rated life of machine | 10000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 1000 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 120 | % | | #VALUE! | B |
| C | Running charges (P.O.L) | | | | | |
| | H.P motor =110 | | | | | |
| | a.Diesel | 5.33 | lit | 62.80 | 334.63 | |
| | b.Lubricant and grease waste etc 25% of a) | 25 | % | | 83.66 | |
| | c.Sundries and miscellaneous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | |
| | Total charge | | | | #VALUE! | C |
| D | Labour charge | | | | | |
| (a) | Direct labour charge | Nos | Days | Rate | Amount | |
| | i.Driver | 1 | 30 | 354.00 | 5310.00 | |
| | ii.Helper | 1 | 30 | 220.00 | 3300.00 | |
| | iii.Formen | 1/8 | 30 | 354.00 | 1327.50 | |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | |
| | v.Choukidar | 1/8 | 30 | 213.00 | 1065.00 | |
| | Total Direct labour charge | | | | 13845.00 | |
| | Direct labour charge per hr | | | | 166.14 | |
| | Hourly use rate | | | | #VALUE! | Per hr |
| 3.42 | Crushing & Processing Plant | | | | | |
| | Integrated Stone Crusher TPH | | | 100 TPH | | 200TPH |
| A | Depreciation charge | | | | | |
| | Capital cost of machine | | | | IINPUT | IINPUT |
| | Life of machine | 12 | Year | | | |
| | Rated life of machine | 8000 | hrs | | | |
| | Working Hours per year (Rated life in hrs/yr) | 666.67 | hrs | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 80 | % | | #VALUE! | B |

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CALCULATION OF HIRE CHARGES OF MACHINE

| Sr.No. | Description | Quantity | Unit | Rate | Amount | Ref. | | |
|--------|---|----------|------|--------|----------|---------|--|---------------------------|
| C | Running charges (P.O.L) | | | | | | | |
| | H.P. motor =110 | | | | | | | |
| | a.Diesel | 400.00 | lit | 62.80 | | 800.00 | | 0 |
| | b.Lubricant and grease waste etc 25% of a | 25 | % | | 0.00 | | | 0.00 |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | | | #VALUE! |
| | Total charge | | | | #VALUE! | C | | #VALUE! |
| D | Labour charge | | | | | | | |
| (a) | Direct labour charge | | | | | | | |
| | i.Driver | 2 | 30 | 354.00 | 21240.00 | 2 | | 21240 |
| | ii.Helper | 0 | 30 | 220.00 | 0.00 | 0 | | 0 |
| | iii.Formen | 1 | 30 | 354.00 | 10620.00 | 1 | | 10620 |
| | iv.Mechanic | 1/4 | 30 | 379.00 | 2842.50 | 1/4 | | 2842.5 |
| | v.Chokidar | 1 | 30 | 213.00 | 6390.00 | 1 | | 6390 |
| | vi.Beldar | 15 | 30 | 206.00 | 92700.00 | 20 | | 123600 |
| | Total Direct labour charge | | | | 41092.50 | | | 164692.5 |
| | Direct labour charge per hr | | | | 739.67 | | | 2964.47 |
| | Hourly use rate | | | | #VALUE! | Per hr | | #VALUE! |
| 3.43 | Boat | | | | | | | |
| | 40 quintal capacity boat | | | | | | | 100 quintal capacity boat |
| A | Depreciation charge | | | | | | | |
| | Capital cost of machine | | | | input | | | input |
| | Life of machine | 8 | Year | | | | | |
| | Rated life of machine | 35000 | hrs | | | | | |
| | Working Hours per year (Rated life in hrs/yr) | 4375 | hrs | | | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of | | | | #VALUE! | A | | #VALUE! |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B | | #VALUE! |
| C | Running charges | | | | | | | |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | C | | #VALUE! |
| D | Labour charge | | | | | | | |
| (a) | Direct labour charge | | | | | | | |
| | Driver | 1 | 30 | 319.00 | 9570.00 | | | 9570.00 |
| | Total Direct labour charge | | | | 9570.00 | | | 9570.00 |
| | Direct labour charge per hr | | | | 26.25 | D | | 26.25 |
| | Hourly use rate | | | | #VALUE! | Per hr | | #VALUE! |
| | | | | | #VALUE! | Per day | | #VALUE! |
| | 100 quintal capacity boat (Pump Fitted) | | | | | | | |
| A | Depreciation charge | | | | | | | |
| | Capital cost of machine | | | | input | | | |
| | Life of machine | 8 | Year | | | | | |
| | Rated life of machine | 35000 | hrs | | | | | |
| | Working Hours per year (Rated life in hrs/yr) | 4375 | hrs | | | | | |
| | Depreciation of machine /hr = 0.9x Cost of Machine/Rated life of Machines | | | | #VALUE! | A | | #VALUE! |
| B | Repairs and Maintenance charge % of Depreciation of machine /hr | 150 | % | | #VALUE! | B | | #VALUE! |
| C | Running charges (P.O.L) | | | | | | | |
| | H.P. motor =110 | | | | | | | |
| | a.Diesel | 0.54 | lit | 62.80 | 34.21 | | | |
| | b.Lubricant and grease waste etc 25% of above Fuel | 25 | % | | 8.55 | | | |
| | c.Sundries and misellenceous supplies at site @ 10 % of R/M(B) | 10 | % | | #VALUE! | | | #VALUE! |
| | Total charge | | | | #VALUE! | C | | #VALUE! |
| D | Labour charge | | | | | | | |
| (a) | Direct labour charge | | | | | | | |
| | i.Driver | 1 | 30 | 319.00 | 9570.00 | | | |
| | ii.Helper | 1 | 30 | 220.00 | 6600.00 | | | |
| | Direct labour charge per hr | | | | 44.35 | | | |
| | Hourly use rate | | | | #VALUE! | Per hr | | #VALUE! |
| | | | | | #VALUE! | Per day | | #VALUE! |

[Handwritten signatures and marks]

CHAPTER - IV

CARRIAGE OF MATERIALS (By TRACTOR)

| Sl.No | Description | Unit | Quantity | Rate(Rs) | Cost(Rs) | Ref. |
|-------|--|------|----------|----------|----------|-------------|
| 4.1 | Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum | | | | | |
| | Placing tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip. | | | | | |
| | Unit = cum | | | | | |
| | Taking output = 2.25 cum | | | | | |
| | Time required for | | | | | |
| | i) Positioning of tipper at loading point | | 1Min | | | |
| | ii) Loading by front end loader 1cum bucket capacity @ 25 cum per hour | | 5 Min | | | |
| | Total | | 6 Min | | | |
| | a) Labour | | | | | |
| | Mate | no. | 0.03 | 266.00 | 7.98 | |
| | Mazdoor for loading and unloading | no. | 0.72 | 242.00 | 174.24 | |
| | b) Machinery | | | | | |
| | Tractor 3.6 tonnes capacity | hour | 0.100 | 492.00 | 49.20 | P&M-1B 5 |
| | Front end-loader 1cum bucket capacity @ 25 cum/hour | hour | 0.083 | 1291.00 | 107.15 | P&M017 |
| | | | | | 338.57 | |
| | Overhead charges & C.P @ 15% | | | | 50.79 | |
| | Cost for 2.25 cum | | | | 389.36 | |
| | Rate per cum | | | | 173.05 | |
| | | | | say | 173.10 | |
| | Note:-Unloading will be done manually. | | | | | |
| 4.2 | Loading and Unloading of stone Boulders by Manual means | | | | | |
| | Unit = cum | | | | | |
| | Taking output = 2.25 cum | | | | | |
| | a) Labour | | | | | |
| | Mate | no. | 0.05 | 266.00 | 13.3 | |
| | Mazdoor for loading and unloading | no. | 0.31 | 242.00 | 75.02 | |
| | b) Machinery | | | | | |
| | Tractor 3.60 tonne capacity | hour | 0.31 | 492 | 152.52 | |
| | | | | | 240.84 | |
| | Overhead charaes & C.P @ 15% | | | | 36.13 | |
| | Cost for 2.25 cum | | | | 276.97 | |
| | Rate per cum | | | | 123.1 | |
| | | | | say | 123.10 | Xa |
| | Note:-Unloading will be done manually. | | | | | |
| 4.3 | Loading and Unloading of Cement or Steel by manual means and stacking | | | | | |
| | Unit = tonne | | | | | |
| | Taking output = 3.6 tonnes | | | | | |
| | a) Labour | | | | | |
| | Mate | no. | 0.03 | 266.00 | 7.98 | |
| | Mazdoor for loadina and unloading | no. | 0.72 | 242.00 | 174.24 | |