



GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT



COMMON SCHEDULE OF RATES 2017-18

(Applicable from 26 / 12/ 2017)

GOM SOIL & WCD CSR 2017-18

**DETAILS OF COMMITTEE FORMED FOR PREPARATION
OF COMMON SCHEDULE OF RATES FOR 2017-18**

- संदर्भ: १) शासन परिपत्रक क्र : संकिर्ण-२०१७/प्र.क्र.२८१/ज.ल.-१ मंत्रालय, मुंबई, दि. ०१ नोव्हेंबर, २०१७.
- २) शासन परिपत्रक क्र : संकिर्ण-२०१७/प्र.क्र.२८१/ज.ल.-१ मंत्रालय, मुंबई, दि. ०५ डिसेंबर, २०१७.

1. COMMISSIONER, SOIL AND WATER CONSERVATION COMMISSIONERATE AURANGABAD	PRESIDENT
2. ADDITIONAL COMMISSIONER AND CHIEF ENGINEER SMALL SCALE IRRIGATION (W.C.) PUNE	CO-PRESIDENT
3. JOINT DIRECTOR OF AGRICULTURE AND REGIONAL SOIL CONSERVATION OFFICER SOIL CONSERVATION & WATERSHED MANAGEMENT, PUNE	MEMBER
4. REGIONAL WATER CONSERVATION OFFICER AND SUPERINTENDING ENGINEER SMALL SCALE IRRIGATION (W.C.) CIRCLE, NAGPUR	MEMBER
5. REGIONAL WATER CONSERVATION OFFICER AND SUPERINTENDING ENGINEER SMALL SCALE IRRIGATION (W.C.) CIRCLE, AURANGABAD	MEMBER
6. EXECUTIVE ENGINEER & UNDER SECRETARY SOIL & WATER CONSERVATION DEPARTMENT MANTRALAYA, MUMBAI	MEMBER
7. CHIEF ACCOUNT & AUDIT OFFICER MAHARSHTRA WATER CONSERVATION CORPORATION, AURANGABAD	MEMBER
8. DISTRICT WATER CONSERVATION OFFICER AND EXECUTIVE ENGINEER SMALL SCALE IRRIGATION (W.C.) DIVISION, NASHIK	MEMBER, SECRETARY

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GOVT. OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT

COMMON SCHEDULE OF RATES FOR 2017-18
COMMITTEE

<p>Member</p>  <p>Regional Water Conservation Officer & Superintending Engineer, Small Scale Irrigation (Water Conservation) Circle, Aurangabad.</p>	<p>Member</p>  <p>Regional Water Conservation Officer & Superintending Engineer, Small Scale Irrigation (Water Conservation) Circle, Nagpur.</p>
<p>Member</p>  <p>Executive Engineer & Under Secretary, Soil & Water Conservation Dept. Mantralaya, Mumbai.</p>	<p>Member</p>  <p>Joint Director of Agriculture & Regional Soil Conservation Officer Soil Conservation & Watershed Management, Pune.</p>
<p>Member</p>  <p>Chief Accounts & Audits Officer Maharashtra Water Conservation Corporation Aurangabad</p>	<p>Member Secretary</p>  <p>District Water Conservation Officer & Executive Engineer, Small Scale Irrigation (Water Conservation) Division, Nashik.</p>
<p>Co - President</p>  <p>Additional Commissioner & Chief Engineer, Small Scale Irrigation (Water Conservation), Pune.</p>	
<p>President</p>  <p>Commissioner Soil & Water Conservation, Aurangabad (M.S.)</p>	

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GOVERNMENT OF MAHARASHTRA

WATER CONSERVATION DEPARTMENT

COMMON SCHEDULE OF RATES FOR 2017-18

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SECTION-1

- 1.1 General Note with Annexure No. 1 & 2**
- 1.2 Lift Charges by Head Load**
- 1.3 Rates of Construction Materials & Labour**
- 1.4 Lead charges statement for Materials**

GOM SOIL & WCD CSR 2017-18

सामाईक दरसूची सन २०१७-१८
(१.१) सर्वसाधारण टिपणी

प्रस्तावना :-

सामाईक दरसूची सन २०१७-१८ ही दिनांक २६ / १२ / २०१७ पासून अंमलात येईल. सदर दरसूची सन २०१७-१८ मध्ये खालील प्रमुख बाबींचा समावेश करण्यात आला आहे.

अ) विविध कर, स्वामित्व शुल्क, कामगार कल्याण उपकर, विमा इ. बाबत.

१) सामाईक दरसूची सन २०१७-१८ चे दर हे वस्तू आणि सेवाकर विरहीत (i.e. C.S.R. 2017-18 rates are excluding G.S.T.) आहेत. मात्र यंत्रसामुग्रीच्या दरात वस्तू आणि सेवाकराचा समावेश आहे. अंदाजपत्रके मंजूर करणा-या सक्षम अधिकारी यांनी वस्तू आणि सेवाकराची तरतूद अंदाजपत्रकात अनुषंगिक उचीत व प्रचलित नियमानुसार करावी.

२) वाळू, दगड आणि खडी यावरील स्वामित्व शुल्क हे त्या संबंधीत बाबींच्या दरपृथःकरणात अंतर्भूत नाहीत. तसेच मातीकामाच्या व भराव कामाच्या बाबींसाठी लागणारे मुरुम, काळी माती यावरील स्वामित्व शुल्क दरपृथःकरणात अंतर्भूत नाही. सदरील बाबी अंदाजपत्रकामध्ये स्वतंत्रपणे घेण्यात याव्यात व त्याची अदायगी महसूल खात्यास करण्यात यावी. (शासन पातळीवर महसूल व वन विभागाच्या वेळोवेळीच्या नोटीफिकेशन प्रमाणे गौण खनिजावरील स्वामित्व शुल्कामध्ये बदल झाल्यास त्याप्रमाणे अंदाजपत्रकातील स्वामित्व शुल्काच्या रक्कमेत बदल करण्यात यावा.)

३) शासन निर्णय क्रमांक डिएसआर-१०९०/सीआर-६४५३/पीएलएन-३, दिनांक १४/०७/१९९३ नुसार मजुरांच्या सुविधांसाठी दरसूचीतील प्रत्येक बाबीमध्ये तरतूद करण्यात आली आहे.

४) उद्योग व उर्जा विभागाचे शासन निर्णय क्रमांक बीसीए-२००९/सीआर-१०८/लेबर ७-अ, दि.१७/०६/२०१० नुसार कामगार कल्याण उपकराची एक टक्क्याची तरतूद सामाईक दरसूचीतील बाबीमध्ये दर निश्चित करताना विचारात घेतलेली नाही. अंदाजपत्रक तयार करताना प्रत्येक बाबीच्या दरपृथःकरणामध्ये कामगार कल्याण उपकराची १ टक्के इतकी तरतूद करण्यात यावी व संदर्भित शासन निर्णयामध्ये नमूद केल्याप्रमाणे उपकराची रक्कम ठेकेदाराकडून त्यांच्या देयकातून वसूल करण्यात यावी.

५) वित्त विभागाचा शासन निर्णय क्र. विमासं-१००८/प्र.क्र.२८/९८/शा.हमी, दिनांक १९/०८/१९९८ नुसार तसेच विमा संचालनालय, महाराष्ट्र, मुंबई यांचे सुचनेनुसार कामाच्या किंमतीच्या १ टक्क्याची विमा करिताची तरतूद कामाचे अंदाजपत्रकाचे गोषवा-यात करण्यात यावी. सदरची विमा करिताची तरतूद सामाईक दरसूचीतील बाबींच्या दरामध्ये करण्यात आलेली नाही. शिवाय या करीताची तरतूद निविदेतील कामाच्या बाबींच्या दरपृथःकरणात करण्यात येऊ नये. संबंधीत कामाचे कंत्राटदाराने विमा रक्कम भरल्याबाबतचे पुरावे सादर केल्यास त्याची विभागीय लेखापाल पडताळणी करून त्यानंतर भरलेल्या रक्कमेचा परतावा, निविदा रक्कमेच्या [Cost put to tender] १ टक्केचे मर्यादेत, कंत्राटदारास अदा करावा.

६) इमारती आणि रस्त्यांची कामे वगळून इतर कामासाठी मृद व जलसंधारण विभागाची सन २०१७-१८ ची दरसूची वापरण्यात यावी. कालव्यास छेदणा-या रस्तापुलाच्या कामासाठी आणि पंपगृहाच्या खोदकामासाठी देखील मृद व जलसंधारण विभागाची सामाईक दरसूची सन २०१७-१८ वापरण्यात यावी.

टिप :- कामाची अंदाजपत्रके तयार करताना व त्या अंतर्गत विविध बाबीचे दरविश्लेषण करताना वरील अ.क्र. अ (१) ते अ (६) मध्ये नमूद केल्याप्रमाणे अंदाजपत्रकात तरतूद करावी व या तरतुदीशी सुसंगत तरतुदी प्रारूप निविदा संचात कराव्यात.

ब) दरपृथःकरणामध्ये विचारात घ्यावयाच्या बाबी :-

- १) जनजाती क्षेत्रातील तसेच विशेष कृती कार्यक्रमांतर्गत समाविष्ट क्षेत्रातील कामांसाठी १० टक्के जास्त दर अनुज्ञेय राहतील.
- २) गडचिरोली जिल्हयातील सर्व तालुक्यातील कामाकरिता २० टक्के जादा दर अनुज्ञेय राहतील.
- ३) या दरसूचीतील दर खारभुमी विकास कामांसाठी लागू नाहीत.
- ४) वरील अ.क्र. ब (१), ब (२) व ब (३) यापैकी केवळ एक तरतूद अनुज्ञेय राहिल.
- ५) उपरोक्त टीप क्र. ब-१ व ब-३ मध्ये नमूद केलेली विशेष वाढ ट्रकने / टिप्परने करावयाच्या बांधकाम साहित्याच्या वाहतुकीच्या दरांना लागू आहे.
- ६) बृहन्मुंबईतील रेल्वे स्थानकावर राज्य शासनाची मान्यता असलेल्या कामगार संघटनेच्या अधिकृत दरपत्रकाप्रमाणे येणा-या सिमेंटच्या भराई / उतराईच्या दरात या कामाच्या जागेवरील वरकड खर्च विचारात घेऊन येणारे दर शासनाचे पत्र क्रमांक दरसूची-२३९७/२५६/९७ लपा-२, दिनांक २७/०३/१९९७ अन्वये अनुज्ञेय करण्यात आले आहे. माथाडी कामगाराच्या संघटना राज्यातील इतर मोठ्या रेल्वे स्थानकावर देखील असल्यामुळे संपुर्ण राज्यातील मान्यताप्राप्त कामगार संघटना असलेल्या रेल्वे स्थानकाकरिता संबंधीत रेल्वे स्थानकावरील माथाडी कामगार संघटनेचे दर लागू करण्यास शासनाचे पत्र क्र.१०९८/१४६/९९/लपा-२, दिनांक १७ मे २००० अन्वये परवानगी दिली आहे त्यानुसार दर लागू करावेत.

७) बांधकाम साहित्याचे दर

७अ) लोह : दरसूची तयार करताना M.S. / HYSD / TMT स्टीलचे वस्तू आणि सेवाकर विरहीत दर हे दिनांक ०१/०९/२०१७ रोजीचे जॉइन्ट प्लॅन्ट कमिटीनुसार विचारात घेतलेले आहेत. (सोबत परिशिष्ट क्र. १ आणि २ जोडलेले आहेत) जॉइन्ट प्लॅन्ट कमिटीचे दर हे जिल्हा मुख्यालयाच्या ठिकाणचे आहेत असे गृहीत धरावे. अंदाजपत्रक करतेवेळी दरविश्लेषणासाठी त्या त्या वेळी प्रचलीत असलेले जॉइन्ट प्लॅन्ट कमिटीचे दर आणि दरसूचीत विचारात घेतलेले दर यातील फरक विचारात घ्यावा.

- ७ब) सिमेंट :** दरसुची तयार करताना सिमेंटचा वस्तू आणि सेवाकर विरहीत दर हा रु.२२४.२०/गोणी विचारात घेतलेला आहे. अंदाजपत्रक करतेवेळी दरविश्लेषणासाठी त्या त्या वेळी जलसंपदा विभागाच्या धर्तीवर प्रादेशिक समितीने निश्चित केलेले प्रचलीत वस्तू आणि सेवाकर विरहीत दर आणि दरसुचीतील (रु.२२४.२०/गोणी) दर यातील फरक विचारात घ्यावा.
- ८) संधानकाच्या कामासाठी Concrete with batching plant & Transit Mixer** या दराचा वापर क्षेत्रिय परिस्थितीनुसार गरजेचे असल्यास संबंधित मुख्य अभियंता यांची पुर्व मान्यता घेऊनच सदरचा दर वापरण्यात यावा. तसेच या करिता स्वतंत्र Specifications निविदेमध्ये अंतर्भूत करावेत.
- ९) ज्या प्रकल्पाचे बांधकाम पूर्ण झाले आहे व जेथे सिंचन होत आहे अशा कालव्याच्या दुरुस्तीची / पुनर्स्थापनेची कामे यंत्रसामुग्री वापरून (कालवा बंद कालावधीत) करताना अतिरिक्त १० टक्के वाढ विचारात घेण्यात यावी. सदर वाढ सिंचन व्यवस्थापनाच्या सर्वसाधारण कामासाठी लागू राहणार नाही.
- १०) जलनिष्कासन (Dewatering) आवश्यक असल्यास, सर्वसाधारण कामांसाठी नाला पातळीपर्यंतच्या कामाच्या किंमतीच्या १ टक्का तरतूद अंदाजपत्रकात ठेवण्यात यावी. तसेच नदी व मोठ्या नाल्यावरील कामांसाठी नदी व मोठा नाला तळपातळीपर्यंतच्या किंमतीच्या ३ टक्के तरतूद अंदाजपत्रकात विचारात घेण्यात यावी. एखादया विशिष्ट कामासाठी फक्त Dewatering चे काम करणे क्रमप्राप्त झाल्यास अशा परिस्थितीत अधीक्षक अभियंता यांच्या पुर्व मान्यतेनेच सामाईक दरसुची सन २०१७-१८ मधील Dewatering संबंधीत स्वतंत्र बाब क्र. २३ उपयोगात आणावी.
- ११) Section-9 मधील बाबी या पुनर्वसन गावठाणातील प्रकल्पग्रस्तांच्या घराचे मुल्यांकनासाठी वापरण्यात याव्यात.
- १२) उपसा सिंचन योजना अंतर्गत Valve चे दर महाराष्ट्र जीवन प्राधिकरणाच्या दरसुचीप्रमाणे वापरावेत.
- १३) नलिका वितरण प्रणाली अंतर्गत कामासाठी महाराष्ट्र जीवन प्राधिकरण दरसुचीचे दर उपयोगात आणावेत.
- १४) दगडी पायथा (Rock Toe) दुरुस्तीचे काम संबंधीत अधीक्षक अभियंता यांच्या पुर्वपरवानगीने करण्यात यावे.
- १५) सदर सामाईक दरसुची मधील समाविष्ट बाबी व्यतिरिक्त काही बाबी अंदाजपत्रकात समाविष्ट करावयाच्या झाल्यास त्यासाठी जलसंपदा विभागाची सामाईक दरसुची २०१७-१८ वापरण्यात यावी.

परिशिष्ट क्र. १

सामाईक दरसुची २०१७-१८ अंतर्गत वस्तु आणि सेवाकर विरहीत लोहचे दर

**(RATE OF ITEM WITH GST ARE AS PER JOINT PLANT COMMITTEE
AS ON 1 SEP 2017, COPY ATTACHED SEPARATELY)**

Sr.No.	ITEM	RATE OF ITEM WITH GST IN (RS/TONNE)	RATE OF ITEM FOR CSR 2017-18 WITHOUT GST IN (RS/TONNE)
1	PIG IRON	36580	31000
2	BILLETS 100 MM	38660	32763
3	BLOOME 150X150 MM	39459	33440
4	PENCIL INGOTS	35636	30200
5	WIRE RODS 6 MM	48510	41110
6	WIRE RODS 8 MM	48510	41110
7	ROUNDS 12 MM	44904	38054
8	ROUNDS 16 MM	44904	38054
9	ROUNDS 25 MM	44904	38054
10	TMT 10 MM	38740	32830
11	TMT 12 MM	38040	32237
12	TMT 25 MM	37691	31941
13	ANGLES 50X50X6 MM	39955	33860
14	ANGLES 75X75X6 MM	39511	33484
15	JOISTS 125X70 MM	47790	40500
16	JOISTS 200X100 MM	41135	34860
17	CHANNELS 75X40 MM	40523	34341
18	CHANNELS 150X75 MM	40269	34126
19	PLATES 6 MM	43365	36750
20	PLATES 10 MM	43955	37250
21	PLATES 12 MM	43660	37000
22	PLATES 25 MM	42775	36250
23	H. R. COILS 2.00 MM	43660	37000
24	H. R. COILS 2.50 MM	43660	37000
25	H. R. COILS 3.15 MM	43955	37250
26	C. R. COILS 0.63 MM	48380	41000
27	C. R. COILS 1.00 MM	48675	41250
28	G. P. SHEETS 0.40 MM	55460	47000
29	G. P. SHEETS 0.63 MM	55165	46750
30	G. C. SHEETS 0. 40 MM	55165	46750
31	G. C. SHEETS 0. 63 MM	55165	46750
32	MELTING SCRAP H M S - I	31270	26500
33	MELTING SCRAP H M S - II	26898	22795
34	SPONGE IRON (COAL BASED)	22883	19392

परिशिष्ट क्र. २



ज्वाइन्ट प्लान्ट कमिटी
(भारत सरकार द्वारा गठित)
JOINT PLANT COMMITTEE
(Constituted by Govt. of India)
An ISO 9001 : 2008 Certified Organisation

DATE : 6TH AUGUST 2017
SEPT

Debayan Rana

JPC MARKET PRICE RETAIL AS ON 01-SEP-2017

(Rs/Tonnes)

Sl. No.	ITEM	Kolkata	Delhi	Mumbai	Chennai
1	PIG IRON	32411	35990	36580	31322
2	BILLETS 100 MM	38532	39917	38660	38400
3	BLOOMS 150X150 MM	38733	40130	39459	38874
4	PENCIL INGOTS	32250	34574	35636	33040
5	WIRE RODS 6 MM	37566	43660	48510	44840
6	WIRE RODS 8 MM	37305	43306	48510	44840
7	ROUNDS 12 MM	37345	37856	44904	40725
8	ROUNDS 16 MM	36858	37856	44904	40683
9	ROUNDS 25 MM	36885	37856	44904	40694
10	TMT 10 MM	37792	40913	38740	40060
11	TMT 12 MM	38290	40323	38046	39928
12	TMT 25 MM	38422	40323	37691	39862
13	ANGLES 50X50X6 MM	38423	39575	39955	40581
14	ANGLES 75X75X6 MM	38601	39829	39511	40940
15	JOISTS 125X70 MM	37921	40037	47790	39333
16	JOISTS 200X100 MM	36759	38857	41135	41149
17	CHANNELS 75X40 MM	36939	40014	40523	40863
18	CHANNELS 150X75 MM	36921	40014	40269	40512
19	PLATES 6 MM	42000	44840	43365	46413
20	PLATES 10 MM	42000	44840	43955	46531
21	PLATES 12 MM	41875	44840	43660	46610
22	PLATES 25 MM	41750	44840	42775	46807
23	H. R. COILS 2.00 MM	44000	45430	43660	49413
24	H. R. COILS 2.50 MM	42750	44840	43660	49118
25	H. R. COILS 3.15 MM	42500	44840	43955	49118
26	C. R. COILS 0.63 MM	48750	50740	48380	54870
27	C. R. COILS 1.00 MM	47750	50150	48675	55460
28	G. P. SHEETS 0.40 MM	56500	62540	55460	69030
29	G. P. SHEETS 0.63 MM	55250	61360	55165	69620
30	G. C. SHEETS 0.40 MM	56500	63720	55165	69030
31	G. C. SHEETS 0.63 MM	55500	62540	55165	69030
32	MELTING SCRAP H M S - I	21625	24190	31270	24190
33	MELTING SCRAP H M S - II	19500	23600	26898	23305
34	SPONGE IRON (COAL BASED)	18000	22420	22883	20473

NOTE: 1) All prices are in Rs./Tonne and has been compiled on the basis of average of Main & Others producers' price.

2) Prices are inclusive of GST. 3) All prices are as on day 1st of this month. 4) Prices are indicative.

5) For Blooms 150X150MM, prices of secondary producers was not considered.

Debayan Rana
देबायन राणा
Debayan Rana
सहायक प्रबंधक (उद्योगिक)
Asst. Manager (Data Bank & Analytical Studies)
ज्वाइन्ट प्लान्ट कमिटी
Joint Plant Committee
52/1A, बालीगुंज सर्कुलर रोड
कोलकाता-700 019
52/1A, Ballygunge Circular Road
Kolkata-700 019

COMMON SCHEDULE OF RATES 2017-18

(1.2) Lift charges by Head Load

Lift in m	Rate as per CSR 2017-18
1.00	6.00
1.50	7.60
2.00	8.55
2.50	10.25
3.00	11.50
3.50	12.80
4.00	14.20
4.50	16.05
5.00	17.00
5.50	18.20
6.00	21.15
6.50	21.80
7.00	22.70
7.50	24.10
8.00	25.80
8.50	26.65
9.00	28.20
9.50	29.85
10.00	30.95

* These rates are applicable only for manual works & not for work executed by Machinery.

COMMON SCHEDULE OF RATES 2017-18

(1.2 A) Additional Lead charges for Excavation by machinery (per Cum)

Item No 1	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	8.00
250 M to 500 M	15.10
500 M to 750 M	22.10
750 M to 1000 m (1 Km)	29.15
Item No 2	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	8.35
250 M to 500 M	16.70
500 M to 750 M	25.05
750 M to 1000 m (1 Km)	33.45
Item No 3	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	9.50
250 M to 500 M	19.05
500 M to 750 M	28.55
750 M to 1000 m (1 Km)	38.10

Item No 4	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	11.85
250 M to 500 M	23.75
500 M to 750 M	35.60
750 M to 1000 m (1 Km)	47.50
Item No 5	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	17.80
250 M to 500 M	35.65
500 M to 750 M	53.45
750 M to 1000 m (1 Km)	71.25
Item No 6	
Lead in m	Rate (Rs/Cum)
15 M to 250 M	12.75
250 M to 500 M	25.50
500 M to 750 M	38.25
750 M to 1000 m (1 Km)	51.00

- * These rates are applicable only for Machinery works
 * The Lead charges above are inclusive of loading and unloading by mechanical machinery.

GOVERNMENT OF MAHARASHTRA
WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18
(1.3) RATES OF CONSTRUCTION MATERIALS

Sr. No.	Material	Unit	Rate in Rs.
1	Acetylene	Cum	337.30
2	Admixture	Kg	65.25
3	Aldrop 30 cm	No.	103.40
4	Bamboo 25 mm	Rmt	16.95
5	Binding wire	Kg	55.95
6	Black glass	No.	86.65
7	Brick	No.	5.70
8	Brushes	No.	60.15
9	Butt Hinges Iron 125 mm	No.	30.50
10	Cement (50 Kg bag)	Bag	224.20
11	Coal tar paint	Kg	43.75
12	Coaltar epoxy paint	Litre	199.20
13	Coir string	Kg	40.95
14	Copper plate	Kg	494.05
15	Copper water stopper 16 gauge	Sqm	7866.10
16	Cotton waste	Kg	44.75
17	Curing compound	Litre	116.10
18	Delay Detonator	No.	16.95
19	Electric Detonator	No.	10.15
20	Empty cement bag	No.	10.00
21	Explosive Kelvex - 220	Kg	53.40
22	First Aid Kit	No.	242.85
23	Fiber fibrillated polypropylene fibers (910 gm /cum of any grade of concrete)	Kg	240.00
24	Fly Ash	Kg	0.90
25	Fuse coil	Rmt.	16.95
26	G.P. Electrodes	No.	9.30
27	Gelatin	Kg	124.60
28	Geru	Kg	11.45
29	Goggles	No.	140.20
30	G. I. Pipe 100 mm dia	Rmt.	618.65

Sr. No.	Material	Unit	Rate in Rs.
31	Hand gloves	Pair	201.70
32	Hand screen	No.	319.50
33	Handle Iron 125 mm	No.	30.50
34	Hook iron & eye oxi 75 mm	No.	15.25
35	Hose pipe Oxygen & DA	Rmt	71.20
36	J-Bolt (For soldier fixing)	No	31.35
37	Kerosene	Litre	31.00
38	L.H. Electrodes	No.	12.70
39	Latches 250 mm	No.	39.00
40	Manila Rope	Kg	190.70
41	Metal size 40 mm & above (Including Royalty charges)	Cum.	660.95
42	Metal size 40 mm & above (Excluding Royalty charges)	Cum.	522.85
43	Metal size less than 40 mm (Including Royalty charges)	Cum	757.70
44	Metal size less than 40 mm (Excluding Royalty charges)	Cum	620.00
45	Nails 4 cm	Kg	58.45
46	Neoprene pad	Cu.cm	1.70
47	Non Teak wood	Cum	31983.05
48	Nozzle – 3/64	No.	733.90
49	Nut bolts	Kg	55.10
50	Nut bolts and washer	Kg	85.60
51	Nylon Rope	Kg	242.35
52	Oil paint	Litre	199.20
53	Ordinary Detonator	No.	5.95
54	Oxygen	Cum	42.85
55	P.V.C. water stopper,310mm wide central bulb type	Rmt	187.50
56	Painting brush 4”	No.	86.45
57	Pickaxe	No.	129.65
58	Plum bob	No.	86.45
59	Polyethylene film 200 gauge	Kg	206.80
60	Primer	Litre	127.35

Sr. No.	Material	Unit	Rate in Rs.
61	Pin header of standard size	No.	28.55
62	Red oxide	Litre	111.70
63	Rust cleaner	Litre	285.15
64	Safety Helmet	No.	216.10
65	Safety shoes	Pair	1248.30
66	Natural sand / Crushed sand (Including Royalty)	Cum.	728.55
67	Natural sand/ Crushed sand (Excluding Royalty)	Cum.	591.45
68	Shalitex super Expansion Pad – 12 mm Tk.	Sqm	537.30
69	Spirit level - 150 mm	No.	103.40
70	Steel	MT	Rate as per JPC Dt.1/9/2017 (As per Annexure I & II)
71	Stone (Including Royalty charges)	Cum.	466.65
72	Stone (Excluding Royalty charges)	Cum.	328.55
73	Stone chips (Excluding Royalty charges)	Cum.	198.70
74	Super plasticizer	Kg	84.40
75	Turpentine	Litre	60.15
76	Tower bolt Iron 200 mm	No.	60.15
77	Tower bolt Iron 250 mm	No.	69.50
78	Water	1000 Ltrs	33.00
79	Water proofing compound	Kg	46.10
80	Welding cable 600 AMP	Rmt	650.85
81	White glass	No.	4.25
82	Wire brush	No.	69.50
83	Wire mesh 50 X 50 - 13 gauge	Sqm	172.90
84	Zink base oil paint	Litre	253.15
85	Zink rich Epoxy primer	Litre	230.45
86	Galvanized Mesh 3mm wire (15 cm x15 cm x 3 mm, 2 m x 12 , BDL)	Sqm	199.00
87	Earthenware Pipe 6" dia.	Rmt	197.50
88	PVC Pipes 6" dia. 2.50 Kg/Rmt	Rmt	170.00

GOVERNMENT OF MAHARASHTRA
WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18
LABOUR RATES

Sr. No.	Labour	Unit	Rate in Rs.
1	Barbender	day	467.00
2	Bhisti	day	467.00
3	CAD operator / Civil Engg. Assistant	day	581.00
4	Carpenter	day	494.00
5	Civil Engineer	day	939.00
6	Electrician	day	455.00
7	Fitter	day	494.00
8	Fitter for shuttering	day	494.00
9	Foreman	day	494.00
10	Gas cutter	day	467.00
11	Grinder	day	467.00
12	Gauge Inspector	day	467.00
13	Mason	day	494.00
14	Mazdoor (Heavy)	day	467.00
15	Mazdoor (Light)	day	448.00
16	Measurement clerk	day	494.00
17	Mechanic / Operator	day	494.00
18	Mistri / Mukadam	day	494.00
19	Painter	day	494.00
20	Semiskilled Mazdoor	day	467.00
21	Skilled Mazdoor	day	494.00
22	Surveyor	day	647.00
23	Tile Turner	day	494.00
24	Tracer	day	552.00
25	Unskilled Mazdoor	day	448.00
26	Welder	day	494.00

GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18

(1.4) LEAD CHARGES STATEMENT
FOR MATERIAL

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18

सामाईक दरसूची सन २०१७-१८ मधील दर हे यंत्रसामुग्री वापरुन करावयाच्या कामाचे आहेत. कामाच्या आवश्यकतेप्रमाणे खोदाई / भराव मनुष्यबळाचा वापर करुन काम करावे लागणार असेल तरीही अंदाजपत्रकातील तरतुदी सामाईक दरसूची नुसार म्हणजेच यंत्रसामुग्री वापराच्या गृहीतकानुसारच राहतील.

उदाहरण- ४ कि.मी. वहन अंतरासाठी खोदकामाचा दर निश्चित करण्याचा तपशील खालीलप्रमाणे.

Details	Reference	Lead charges by mechanised loading and unloading (Rs./Cum)
lead charges for 4 Km.	CSR 2017-18 Booklet, Page No.24	46.72
Deduct initial lead charges for 1 Km. lead	CSR 2017-18 Booklet, Page No.24	12.35
Additional lead charges =		46.72 - 12.35 = 34.37
Basic rate for excavation in soil =		60.60
Rate for excavation for 4 Km. lead =		60.60 + 34.37 = 94.97

उदाहरण- ४ कि.मी. वहन अंतरासाठी भराव कामाच्या गाभा कामाचा (borrow) दर निश्चित करण्याचा तपशील खालीलप्रमाणे.

Details	Reference	Lead charges by mechanised loading and unloading (Rs./Cum)
lead charges for 4 Km.	CSR 2017-18 Booklet, Page No.24	46.72
Deduct initial lead charges for 1 Km. lead	CSR 2017-18 Booklet, Page No.24	12.35
Additional lead charges =		46.72 - 12.35 = 34.37
Basic rate for embankment =		98.80
Rate for embankment for 4 Km. lead =		98.80 + 34.37 = 133.17

GOM SOIL & WCD CSR 2017-18

(1.4) Lead Charges Statement for 2017-18 (Excluding Loading and Unloading Charges)

Statement - I

Lead in Km	Av Speed In Km/Hr	No of Trips	Km Done	Qty of Diesel (4 Km/Litre)	Cost of diesel (Rate = Rs 60/Litre) (Rs)	Cost of Mobile Oil (15 % of Cost of Diesel) (Rs)	Hire Charges of Truck (Rs)	Total Cost (Rs)	Add 10 % Overhead Charges (Rs)	Cost Including Overhead Charges (Rs)	Cost per Trip (Rs)
1	2	3	4	5	6	7	8	9	10	11	12
L	S	$N=8/(2 \times L/S)$	$(2 \times NL)+6$	Col 4/4	Col 5X 60	col 6 X 0.15	Rs 2000/day	col 6+col 7+col 8	col 9 x 0.10	col 9+col 10	col 11/col 3
0.50	15.00	120.00	126.00	31.50	1890.00	283.50	2000.00	4173.50	417.35	4590.85	38.26
1.00	16.00	64.00	134.00	33.50	2010.00	301.50	2000.00	4311.50	431.15	4742.65	74.10
1.50	16.50	44.00	138.00	34.50	2070.00	310.50	2000.00	4380.50	438.05	4818.55	109.51
2.00	17.00	34.00	142.00	35.50	2130.00	319.50	2000.00	4449.50	444.95	4894.45	143.95
2.50	17.25	27.60	144.00	36.00	2160.00	324.00	2000.00	4484.00	448.40	4932.40	178.71
3.00	17.50	23.34	146.04	36.51	2190.60	328.59	2000.00	4519.19	451.92	4971.11	212.99
3.50	17.75	20.29	148.03	37.01	2220.45	333.07	2000.00	4553.52	455.35	5008.87	246.86
4.00	18.00	18.00	150.00	37.50	2250.00	337.50	2000.00	4587.50	458.75	5046.25	280.35
4.50	18.25	16.23	152.07	38.02	2281.05	342.16	2000.00	4623.21	462.32	5085.53	313.34
5.00	18.50	14.80	154.00	38.50	2310.00	346.50	2000.00	4656.50	465.65	5122.15	346.09
5.50	18.50	13.46	154.06	38.52	2310.90	346.64	2000.00	4657.54	465.75	5123.29	380.63
6.00	18.75	12.50	156.00	39.00	2340.00	351.00	2000.00	4691.00	469.10	5160.10	412.81
6.50	18.85	11.60	156.80	39.20	2352.00	352.80	2000.00	4704.80	470.48	5175.28	446.14
7.00	19.00	10.86	158.04	39.51	2370.60	355.59	2000.00	4726.19	472.62	5198.81	478.71
7.50	19.15	10.22	159.30	39.83	2389.50	358.43	2000.00	4747.93	474.79	5222.72	511.03
8.00	19.30	9.65	160.40	40.10	2406.00	360.90	2000.00	4766.90	476.69	5243.59	543.38
8.50	19.45	9.16	161.72	40.43	2425.80	363.87	2000.00	4789.67	478.97	5268.64	575.18
9.00	19.60	8.72	162.96	40.74	2444.40	366.66	2000.00	4811.06	481.11	5292.17	606.90
9.50	19.80	8.34	164.46	41.12	2466.90	370.04	2000.00	4836.94	483.69	5320.63	637.97
10.00	20.00	8.00	166.00	41.50	2490.00	373.50	2000.00	4863.50	486.35	5349.85	668.73

Lead in Km	Av Speed In Km/Hr	No of Trips	Km Done	Qty of Diesel (4 Km/Litre)	Cost of diesel (Rate = Rs 60/Litre) (Rs)	Cost of Mobile Oil (15 % of Cost of Diesel) (Rs)	Hire Charges of Truck (Rs)	Total Cost (Rs)	Add 10 % Overhead Charges (Rs)	Cost Including Overhead Charges (Rs)	Cost per Trip (Rs)
1	2	3	4	5	6	7	8	9	10	11	12
L	S	$N=8/(2xL/S)$	$(2xNL)+6$	Col 4/4	Col 5X60	col 6X0.15	Rs 2000/day	col 6+col 7+col 8	col 9 x 0.10	col 9+col 10	col 11/col 3
11.00	21.00	7.64	174.08	43.52	2611.20	391.68	2000.00	5002.88	500.29	5503.17	720.31
12.00	22.00	7.34	182.16	45.54	2732.40	409.86	2000.00	5142.26	514.23	5656.49	770.64
13.00	23.00	7.08	190.08	47.52	2851.20	427.68	2000.00	5278.88	527.89	5806.77	820.16
14.00	24.00	6.86	198.08	49.52	2971.20	445.68	2000.00	5416.88	541.69	5958.57	868.60
15.00	25.00	6.67	206.10	51.53	3091.50	463.73	2000.00	5555.23	555.52	6110.75	916.15
20.00	25.00	5.00	206.00	51.50	3090.00	463.50	2000.00	5553.50	555.35	6108.85	1221.77
25.00	25.00	4.00	206.00	51.50	3090.00	463.50	2000.00	5553.50	555.35	6108.85	1527.21
30.00	30.00	4.00	246.00	61.50	3690.00	553.50	2000.00	6243.50	624.35	6867.85	1716.96
35.00	30.00	3.43	246.10	61.53	3691.50	553.73	2000.00	6245.23	624.52	6869.75	2002.84
40.00	30.00	3.00	246.00	61.50	3690.00	553.50	2000.00	6243.50	624.35	6867.85	2289.28
45.00	30.00	2.67	246.30	61.58	3694.50	554.18	2000.00	6248.68	624.87	6873.54	2574.36
50.00	30.00	2.40	246.00	61.50	3690.00	553.50	2000.00	6243.50	624.35	6867.85	2861.60
60.00	35.00	2.34	286.80	71.70	4302.00	645.30	2000.00	6947.30	694.73	7642.03	3265.82
70.00	35.00	2.00	286.00	71.50	4290.00	643.50	2000.00	6933.50	693.35	7626.85	3813.43
80.00	35.00	1.75	286.00	71.50	4290.00	643.50	2000.00	6933.50	693.35	7626.85	4358.20
90.00	35.00	1.56	286.80	71.70	4302.00	645.30	2000.00	6947.30	694.73	7642.03	4898.74
100.00	35.00	1.40	286.00	71.50	4290.00	643.50	2000.00	6933.50	693.35	7626.85	5447.75
125.00	40.00	1.28	326.00	81.50	4890.00	733.50	2000.00	7623.50	762.35	8385.85	6551.45
150.00	40.00	1.07	327.00	81.75	4905.00	735.75	2000.00	7640.75	764.08	8404.83	7854.98
175.00	40.00	0.92	328.00	82.00	4920.00	738.00	2000.00	7658.00	765.80	8423.80	9156.30

Lead in Km	Av Speed In Km/Hr	No of Trips	Km Done	Qty of Diesel (4 Km/Litre)	Cost of diesel (Rate = Rs 60/Litre) (Rs)	Cost of Mobile Oil (15 % of Cost of Diesel) (Rs)	Hire Charges of Truck (Rs)	Total Cost (Rs)	Add 10 % Overhead Charges (Rs)	Cost Including Overhead Charges (Rs)	Cost per Trip (Rs)
1	2	3	4	5	6	7	8	9	10	11	12
L	S	$N=8/(2 \times L/S)$	$(2 \times NL)+6$	Col 4/4	Col 5 X60	col 6 X 0.15	Rs 2000/day	col 6+col 7+col 8	col 9 x 0.10	col 9+col 10	col 11/col 3
200.00	40.00	0.80	326.00	81.50	4890.00	733.50	2000.00	7623.50	762.35	8385.85	10482.31
250.00	40.00	0.64	326.00	81.50	4890.00	733.50	2000.00	7623.50	762.35	8385.85	13102.89
300.00	40.00	0.54	330.00	82.50	4950.00	742.50	2000.00	7692.50	769.25	8461.75	15669.91
350.00	40.00	0.46	328.00	82.00	4920.00	738.00	2000.00	7658.00	765.80	8423.80	18312.61
400.00	40.00	0.40	326.00	81.50	4890.00	733.50	2000.00	7623.50	762.35	8385.85	20964.63
450.00	40.00	0.36	330.00	82.50	4950.00	742.50	2000.00	7692.50	769.25	8461.75	23504.86
500.00	40.00	0.32	326.00	81.50	4890.00	733.50	2000.00	7623.50	762.35	8385.85	26205.78

Note : 1) For calculation of carrying capacity ,a truck of 10 Tonne capacity is considered.

2) Above Lead Charges are exclusive of loading and unloading charges.

3)The transportation charges beyond 15 km to 50 km are with 5 km interval ,50 km to 100 km are with 10 km interval ,100 km to 200 km are with 25 km interval and 200 km to 500 km are with 50 km interval. The transportation charges for intermediate Km within the range shall be worked out by linearly interpolating between rates of lower and upper values in the range.

Lead Charges Statement for 2017-18 (Excluding Loading and Unloading Charges)

Statement - II

Lead in Km	Cost of Trip (Rs)	Lead Charges in Rs / Unit						
L	As per col no 12 of Statement I	Excavated Rock, Rubble	Sand, Metal Below 40 mm	Murum, Earth, Metal 40 mm & above	Concrete Block	Steel, Cement, Stone Block	Water	Bricks
Carrying capacity of Truck		4.70 m ³	5.75 m ³	6.00 m ³	7.00 m ³	10.00 MT	9000 Litre	5000 Nos.
Unit for Rate	Trip	Cum	Cum	Cum	Cum	MT	1000 Litre	1000 Nos.
0.50	38.26	8.14	6.65	6.38	5.47	3.83	4.25	7.65
1.00	74.10	15.77	12.89	12.35	10.59	7.41	8.23	14.82
1.50	109.51	23.30	19.05	18.25	15.64	10.95	12.17	21.90
2.00	143.95	30.63	25.04	23.99	20.56	14.40	15.99	28.79
2.50	178.71	38.02	31.08	29.79	25.53	17.87	19.86	35.74
3.00	212.99	45.32	37.04	35.50	30.43	21.30	23.67	42.60
3.50	246.86	52.52	42.93	41.14	35.27	24.69	27.43	49.37
4.00	280.35	59.65	48.76	46.72	40.05	28.03	31.15	56.07
4.50	313.34	66.67	54.49	52.22	44.76	31.33	34.82	62.67
5.00	346.09	73.64	60.19	57.68	49.44	34.61	38.45	69.22
5.50	380.63	80.99	66.20	63.44	54.38	38.06	42.29	76.13
6.00	412.81	87.83	71.79	68.80	58.97	41.28	45.87	82.56
6.50	446.14	94.92	77.59	74.36	63.73	44.61	49.57	89.23
7.00	478.71	101.85	83.25	79.79	68.39	47.87	53.19	95.74
7.50	511.03	108.73	88.87	85.17	73.00	51.10	56.78	102.21
8.00	543.38	115.61	94.50	90.56	77.63	54.34	60.38	108.68
8.50	575.18	122.38	100.03	95.86	82.17	57.52	63.91	115.04
9.00	606.90	129.13	105.55	101.15	86.70	60.69	67.43	121.38
9.50	637.97	135.74	110.95	106.33	91.14	63.80	70.89	127.59
10.00	668.73	142.28	116.30	111.46	95.53	66.87	74.30	133.75

Lead in Km	Cost of Trip (Rs)	Lead Charges in Rs / Unit						
L	As per col no 12 of Statement I	Excavated Rock, Rubble	Sand, Metal Below 40 mm	Murum, Earth, Metal 40 mm & above	Concrete Block	Steel, Cement, Stone Block	Water	Bricks
Carrying capacity of Truck		4.70 m ³	5.75 m ³	6.00 m ³	7.00 m ³	10.00 MT	9000 Litre	5000 Nos.
Unit for Rate	Trip	Cum	Cum	Cum	Cum	MT	1000 Litre	1000 Nos.
11.00	720.31	153.26	125.27	120.05	102.90	72.03	80.03	144.06
12.00	770.64	163.97	134.02	128.44	110.09	77.06	85.63	154.13
13.00	820.16	174.50	142.64	136.69	117.17	82.02	91.13	164.03
14.00	868.60	184.81	151.06	144.77	124.09	86.86	96.51	173.72
15.00	916.15	194.93	159.33	152.69	130.88	91.62	101.79	183.23
20.00	1221.77	259.95	212.48	203.63	174.54	122.18	135.75	244.35
25.00	1527.21	324.94	265.60	254.54	218.17	152.72	169.69	305.44
30.00	1716.96	365.31	298.60	286.16	245.28	171.70	190.77	343.39
35.00	2002.84	426.14	348.32	333.81	286.12	200.28	222.54	400.57
40.00	2289.28	487.08	398.14	381.55	327.04	228.93	254.36	457.86
45.00	2574.36	547.74	447.71	429.06	367.77	257.44	286.04	514.87
50.00	2861.60	608.85	497.67	476.93	408.80	286.16	317.96	572.32
60.00	3265.82	694.86	567.97	544.30	466.55	326.58	362.87	653.16
70.00	3813.43	811.37	663.20	635.57	544.78	381.34	423.71	762.69
80.00	4358.20	927.28	757.95	726.37	622.60	435.82	484.24	871.64
90.00	4898.74	1042.28	851.95	816.46	699.82	489.87	544.30	979.75
100.00	5447.75	1159.10	947.43	907.96	778.25	544.78	605.31	1089.55

Lead in Km	Cost of Trip (Rs)	Lead Charges in Rs / Unit						
L	As per col no 12 of Statement I	Excavated Rock, Rubble	Sand, Metal Below 40 mm	Murum,Earth, Metal 40 mm & above	Concrete Block	Steel, Cement, Stone Block	Water	Bricks
Carrying capacity of Truck		4.70 m ³	5.75 m ³	6.00 m ³	7.00 m ³	10.00 MT	9000 Litre	5000 Nos.
Unit for Rate	Trip	Cum	Cum	Cum	Cum	MT	1000 Litre	1000 Nos.
125.00	6551.45	1393.92	1139.38	1091.91	935.92	655.14	727.94	1310.29
150.00	7854.98	1671.27	1366.08	1309.16	1122.14	785.50	872.78	1571.00
175.00	9156.30	1948.15	1592.40	1526.05	1308.04	915.63	1017.37	1831.26
200.00	10482.31	2230.28	1823.01	1747.05	1497.47	1048.23	1164.70	2096.46
250.00	13102.89	2787.85	2278.76	2183.82	1871.84	1310.29	1455.88	2620.58
300.00	15669.91	3334.02	2725.20	2611.65	2238.56	1566.99	1741.10	3133.98
350.00	18312.61	3896.30	3184.80	3052.10	2616.09	1831.26	2034.73	3662.52
400.00	20964.63	4460.56	3646.02	3494.10	2994.95	2096.46	2329.40	4192.93
450.00	23504.86	5001.03	4087.80	3917.48	3357.84	2350.49	2611.65	4700.97
500.00	26205.78	5575.70	4557.53	4367.63	3743.68	2620.58	2911.75	5241.16

Note: 1) For calculation of carrying capacity, a truck of 10 Tonne capacity is considered.

2) Above Lead Charges are exclusive of loading and unloading charges.

3) The transportation charges beyond 15 km to 50 km are with 5 km interval, 50 km to 100 km are with 10 km interval, 100 km to 200 km are with 25 km interval and 200 km to 500 km are with 50 km interval. The transportation charges for intermediate Km within the range shall be worked out by linearly interpolating between rates of lower and upper values in the range.

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-2

EXCAVATION AND EMBANKMENT



ITEM NO. 1 TO 23

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
EXCAVATION & EMBANKMENT

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
1	Item No.1 :- Excavation in all kinds of Soils & Soft murum including boulders up to 0.6 m diameter (0.113cum) for canal, seating of embankment, filter drains / catch water drains etc., and placing the excavated stuff neatly in dump area or for formation of service road / embankment as directed including cost of all materials, machinery, labour, dressing bed and sides to required level and profile etc., complete with lead up to 15 m and 6m lift.	Cum.	31.45	10.85
2	Item No.2 :- Excavation in Hard Murum including boulders up to 0.6 m diameter (0.113 cum) for canal, seating of embankment, filter drain / catch water drains etc., and placing the excavated material neatly in dump area or for formation of service road as directed including cost of all materials, machinery, labour, dressing bed and sides to required level and profile etc., complete with lead up to 15 m and 6m lift.	Cum.	40.50	13.10
3	Item No.3 :- Excavation in Soft Rock without blasting including boulders up to 0.6 m diameter (0.113 cum) for canal, seating of embankment, filter drain / catch water drains etc., and placing the excavated soft rock neatly in dump area or for formation of service road as directed including cost of all materials, machinery, labour, dressing bed and sides to required level and profile etc., complete with lead up to 15 m and 6m lift.	Cum.	52.40	17.55
4	Item No.4 :- Excavation in Hard Rock of all toughness by blasting including boulders above 0.6 m dia.(0.113Cum) minimising damage to side slopes of excavation in water prism area by adopting any one or combination of line drilling / pre-splitting / smooth blasting techniques and placing the excavated rock neatly in approved dump area as directed including cost of all materials, machinery, labour, leveling bed etc., complete with lead up to 15 m and lift up to 6 m.	Cum.	247.85	62.90

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
5	Item No.5 :- Excavation in Hard Rock of all toughness including boulders above 0.6 m dia. (0.113Cum) for canals cut-off trench of embankment filter / catch water drains and other appurtenant structures by control blasting methods including control of vibrations by use of delay detonators and control of fly rocks by muffling arrangements and adopting only jack hammers for drilling holes and minimizing damage to side slopes of canal in water prism area by adopting any one or combination of line drilling / pre-splitting / smooth blasting techniques including cost of all materials, machinery, labour, placing excavated rock neatly approved dump area as directed etc., complete with lead up to 15 m & lift up to 6 m.	Cum.	371.75	94.35
6	Item No.6 :- Excavation in Hard Rock of all toughness by breaker including boulders above 0.6 m dia. (0.113Cum) minimizing damage to side slopes of excavation and placing the excavated rock neatly in approved dump area as directed including cost of all materials, machinery, labour, levelling bed etc., complete with lead up to 15 m and lift up to 6 m.	Cum.	440.05	31.15
7	Item No.7 :- Watering the embankment in proper layers by tankers including a lead of water up to 1 km and all lifts etc. complete.	Cum.	11.90	---
8	Item No.8 :- Compaction of bank work with vibratory Compactor to 95 % of Proctor density including watering with a lead up to 1.00 Km.	Cum.	22.80	---
9	Item No.9 :- Providing cut off trench filling using selected impervious soil directly available from material of excavation including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using power roller etc., complete with lead up to 1 km for water and 6m lift.	Cum.	45.50	1.90

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
10	Item No.10 :- Providing hearting embankment using selected impervious material available directly from excavation in layers including cost of all materials, machinery, labour, all other operations such as collection of material, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using vibratory compactor etc., complete with lead up to1 km for watering and 6m lift.	Cum.	45.50	1.90
11	Item No.11 :- Providing casing embankment using selected pervious material available directly from excavation in layers including cost of all materials, machinery, labour, all other operations such as collection of material, spreading material in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using vibratory compactor etc., complete with lead up to1 km for watering and 6m lift.	Cum.	55.10	2.55
12	Item No.12 :- Providing cut off trench filling using selected impervious soil from approved borrow areas including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using power roller etc., complete with lead up to1 km and 6m lifts.	Cum.	108.25	1.95
13	Item No.13 :- Providing hearting embankment using selected impervious soil from approved borrow areas in layers including cost of all materials, machinery, labour, all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using power roller etc., complete with lead up to1 km and 6m lift.	Cum.	98.80	1.90

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
14	Item No.14 :- Providing casing embankment using selected pervious material from approved borrow areas in layers including cost of all materials, machinery, labour all other operations such as collection of soil, spreading soil in layer of specified thickness, sorting out, breaking clods, levelling, sectioning edges / sides, watering, compacting each layer to density control of not less than 95 percent or as stipulated using vibratory compactor etc., complete with lead up to 1 km and 6m lift.	Cum.	118.95	2.55
15	Item No.15 :- Providing cohesive non-swelling (CNS) material lining to canals using selected material from approved borrow area including cost of all materials, machinery, labour, spreading soil in layers of thickness not more than 150 mm including providing 20 cm or so (perpendicular to side slope) of extra pride ,removing pride just prior to the placement of lining, breaking clods, watering, compacting to density control of not less than 95 percent or as stipulated, dressing to required profile etc., complete with lead up to 1 km and 6m lift.	Cum.	164.85	40.50
16	Item No.16 :- Providing and constructing 230 mm thick dry rubble stone pitching using stones and stone chips from locally available, excavated materials including labour, hand packing / wedging stone chips, finishing etc., complete with lead up to 50 m and all lifts excluding royalty of material.	Sqm.	53.60	53.60
17	Item No.17 :- Providing and constructing 230 mm thick dry rubble stone pitching using stones and stone chips from approved source from borrow area including cost of all materials, labour, hand packing / wedging stone chips, finishing etc., complete with lead up to 50 m and all lifts excluding royalty of material.	Sqm.	133.15	48.40
18	Item No.18 :- Providing and constructing 300 mm thick dry rubble stone pitching with pin headers at 2 per sqm using stones and stone chips from approved source including cost of all materials, labour, hand packing / wedging stone chips, finishing etc., complete with lead up to 50 m and all lifts excluding royalty of material.	Sqm.	222.45	48.35

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
19	Item No.19 :- Providing and constructing 450 mm thick dry rubble stone pitching with pin headers at 2 per sqm using stones and stone chips from approved source including cost of all materials, labour, hand packing / wedging stone chips, finishing etc., complete with lead up to 50 m and all lifts excluding royalty	Sqm.	301.80	72.40
20	Item No.20 :- Providing and Laying of Quarry Spalls of approved trap stone quality of specified thickness including hand packing etc. complete as per specifications & approved drawing as directed with lead of 50m and Lift of 1.5m etc. complete.	Cum.	256.30	35.55
21	Item No.21 :- Providing & constructing dry rubble rock-toe using rubble and stone chips from approved source including cost of all materials, machinery, labour, hand packing rubble and stone chips, finishing top and sides to required slopes etc., complete with lead up to 50 m and all lifts excluding royalty of material.	Cum.	551.00	144.90
22	Item No.22 :- Providing and constructing longitudinal and cross graded filter drains using sand and 20mm down approved clean, hard, graded aggregates satisfying specified filter criteria in layers of specified thickness including cost of all materials, machinery, labour, laying to required slopes, compaction etc., complete as per specifications and approved drawings with lead up to 50 m and all lifts.	Cum.	870.00	192.25
23	Item No.23 :- Dewatering by pumping out water collected with 10 to 19 HP Diesel & Electrical pumps including cost of all materials, machinery, labour, providing sump and all other ancillary operations whenever necessary etc. complete under specific and indispensable circumstances with prior approval from competent authority with authentic evidence of records justifying dewatering etc. complete.	BHP Hour	30.10	13.35

GOM SOIL & WCD CSR 2017-18

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION 3

**CONCRETE WORK INCLUDING
CENTERING, UCR MASONRY, BRICK MASONRY
AND R.C.C. PIPES**



ITEM NO 24 TO 76

GOM SOIL & WCD CSR 2017-18

सामाईक दरसूची २०१७-१८

संधानक कामे

सर्वसाधारण टिप्पणी(General Notes)

- १.० **संधानकाच्या कामासाठी** Concrete with batching plant & Transit Mixer या दराचा वापर क्षेत्रिय परिस्थितीनुसार गरजेचे असल्यास संबंधित मुख्य अभियंता यांची पुर्व मान्यता घेऊनच सदरचा दर वापरण्यात यावा. तसेच या करिता स्वतंत्र Specifications निविदेमध्ये अंतर्भूत करावेत.
- २.० जर संधानकाचे काम ६ मी. किंवा जास्त उंचीवर करावयाचे असेल व संधानकाचे काम पंपाने अगर टॉवर क्रेनच्या सहाय्याने करण्याचे नियोजन असेल तर त्यासाठी अतिरिक्त रू.१७१.६५/घमी एवढा दर अंतर्भूत करण्यात यावा. मात्र अशी तरतूद संबंधित अधीक्षक अभियंता यांचे पूर्व मान्यतेने करावी. तसेच सदर दर पृथःकरणात 2% Sundries, 10% Over head charges व 1% Labour amenities यांचा अंतर्भाव असल्याने तरतूद करताना याबाबी दुबार होणार नाहीत, याची दक्षता घ्यावी.
- ३.० कालव्यावरील बांधकामांसाठी सार्वजनिक बांधकाम विभागाच्या दरसूचीचा अवलंब यापुढे करू नये. कालव्यावरील बांधकामांसाठीच्या सर्व स्तरातील खोदकामासाठी सामाईक दरसूचीच्या प्रकरण-२ मधील खोदकाम या बाबीचे दर हे १.५० पट घ्यावेत.
- ४.० कामाच्या स्वरूपानुसार लागणारे सेंटरींग व शटरींग संबंधित बाबींच्या दरात विचारात घेतलेले आहेत. त्यानुसार कामाचे स्वरूप विचारात घेऊन दरसूचीतील यथा योग्य दराची निवड करण्यात यावी. याबाबतची जबाबदारी तांत्रिक मान्यता देणाऱ्या अधिकाऱ्याची राहिल.
- ५.० सन २०१७-१८ साठी साहित्याच्या दरांतर्गत वाळूचा दर हा Natural sand & Crushed sand साठी एकच राहिल
- ६.० फेरो सिमेंटचे काम हे संबंधित मुख्य अभियंता यांचे मान्यतेने हाती घ्यावे.
- ७.० स्टिलचा दर M.S./HYSD/TMT हा जॉईंट प्लॅन्ट कमिटीप्रमाणे घेण्यात यावा.
- ८.० **विविध व्यासाच्या आरसीसी नलिका बसविणेबाबत :-**
दरपृथःकरणात फक्त विविध व्यासाच्या नलिका पसरणे व जोडणे यासाठीचा प्रति मीटरचा दर परिगणित करण्यात आलेला आहे. अंदाजपत्रके तयार करताना संबंधित अधीक्षक अभियंता यांनी आर.सी.सी. पाईपचे दरानुषंगाने विहित पध्दतीने नियमानुसार मान्यता देऊन संबंधीत पाईपचे दर उपयोगात आणावेत.

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA

SOIL & WATER CONSERVATION DEPARTMENT

COMMON SCHEDULE OF RATES FOR 2017-18

CONCRETE WORKS WITH CONCRETE MIXER

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	DAM & ALLIED WORKS			
	FOUNDATION & BEDDING			
24	<p>Item No.24 :- Providing and laying in situ cement concrete of grade M-10 of trap/ granite / quartzite / graded metal for foundation and bedding with Concrete Mixer including placing, compacting, curing etc. complete with an initial lead of 50 m. & lift of 1.5 m.</p> <p>(A) M-10 (20 MSA) (Cement 4.40 bags/Cum)</p> <p>(B) M-10 (40 MSA) (Cement 4.40 bags/Cum)</p> <p>(C) M-10 (80 MSA) (Cement 4.33 bags/Cum)</p>	Cum.	2698.10	399.20
		Cum.	2698.10	399.20
		Cum.	2644.15	399.20
25	<p>Item No.25 :- Providing and laying in situ cement concrete of grade M-15 of trap / granite / gneiss / quartzite /graded metal for foundation and bedding with Concrete Mixer including placing, compacting, curing etc. complete with an initial lead of 50 m & lift of 1.5 m.</p> <p>(A) M-15 (20 MSA) (Cement 5.64 bags/Cum)</p> <p>(B) M-15 (40 MSA) (Cement 5.20 bags/Cum)</p> <p>(C) M-15 (80 MSA) (Cement 4.99 bags/Cum)</p>	Cum.	2968.55	399.20
		Cum.	2850.85	399.20
		Cum.	2766.10	399.20

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	SUB & SUPER STRUCTURE			
26	Item No.26 :- Providing and laying in situ cement concrete of grade M-15 of trap / granite / gneiss / quartzite / graded metal for PCC with or without surface reinforcement / RCC concreting requiring heavy or special type of shuttering for works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments etc. with Concrete Mixer considering lead of 50 m with shuttering and scaffolding , placing, compacting, curing etc. complete with an initial lead of 50 m. & lift of 1.5 m.			
	(A) M-15 (20 MSA) (Cement 5.64 bags/Cum)	Cum.	3566.55	648.40
	(B) M-15 (40 MSA) (Cement 5.20 bags/Cum)	Cum.	3448.80	648.40
	(C) M-15 (80 MSA) (Cement 4.99 bags/Cum)	Cum.	3367.80	648.40
27	Item No.27 :- Providing and laying in situ cement concrete of grade M-20 of trap / granite / gneiss / quartzite / graded metal for RCC works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments, slab etc. with Concrete Mixer including shuttering and scaffolding , compacting, curing etc. complete with an initial lead of 50 m. and lift of 1.5 m.			
	(A) M-20 (20 MSA) (Cement 6.60 bags/Cum)	Cum.	3808.05	648.40
	(B) M-20 (40 MSA) (Cement 6.08 bags/Cum)	Cum.	3670.20	648.40
28	Item No.28 :- Providing and laying in situ cement concrete of grade M-25 of trap / granite / gneiss / quartzite / graded metal for RCC works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments, slab etc. with Concrete Mixer including shuttering and scaffolding , placing, compacting, curing etc. complete with an initial lead of 50 m. and lift of 1.5 m.			
	(A) M-25 (20 MSA) (Cement 7.62 bags/Cum)	Cum.	4090.05	673.80

COMMON SCHEDULE OF RATES FOR 2017-18
CONCRETE WORKS WITH BATCHING PLANT

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	DAM & ALLIED WORKS			
	FOUNDATION & BEDDING			
29	<p>Item No.29 :- Providing and laying in situ cement concrete of grade M-10 of trap/ granite / quartzite / graded metal for foundation and bedding with Batching Plant & Transit Mixer including placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p> <p>(A) M-10 (20 MSA) (Cement 4.4 bags/Cum) (B) M-10 (40 MSA) (Cement 4.4 bags/Cum) (C) M-10 (80 MSA) (Cement 4.33 bags/Cum)</p>	Cum. Cum. Cum.	3093.40 3093.40 3039.50	351.84 351.84 351.84
30	<p>Item No.30 :- Providing and laying in situ cement concrete of grade M-15 of trap / granite / gneiss / quartzite /graded metal for foundation and bedding with Batching Plant & Transit Mixer including placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p> <p>(A) M-15 (20 MSA) (Cement 5.64 bags/Cum) (B) M-15 (40 MSA) (Cement 5.20 bags/Cum) (C) M-15 (80 MSA) (Cement 4.99 bags/Cum)</p>	Cum. Cum. Cum.	3363.90 3246.15 3161.40	351.84 351.84 351.84
	SUB & SUPER STRUCTURE			
31	<p>Item No.31 :- Providing and laying in situ cement concrete of grade M-15 of trap / granite / gneiss / quartzite / graded metal for PCC with or without surface reinforcement / RCC concreting requiring heavy or special type of shuttering for works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments etc. with Batching Plant and Transit mixer considering lead of 5 kms from batching plant with shuttering and scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	(A) M-15 (20 MSA) (Cement 5.64 bags/Cum)	Cum.	3941.20	575.70
	(B) M-15 (40 MSA) (Cement 5.20 bags/Cum)	Cum.	3823.50	575.70
	(C) M-15 (80 MSA) (Cement 4.99 bags/Cum)	Cum.	3742.45	575.70
32	<p>Item No.32 :- Providing and laying in situ cement concrete of grade M-20 of trap / granite / gneiss / quartzite / graded metal for RCC works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments, slab etc. with Batching Plant and Transit mixer including shuttering and scaffolding, compacting, curing etc. complete with an initial lead of 5 km. and lift of 1.5 m.</p>			
	(A) M-20 (20 MSA) (Cement 6.60 bags/Cum)	Cum.	4182.75	575.70
	(B) M-20 (40 MSA) (Cement 6.08 bags/Cum)	Cum.	4044.85	575.70
33	<p>Item No.33 :- Providing and laying in situ cement concrete of grade M-25 of trap / granite / gneiss / quartzite / graded metal for RCC works of gallery, sluice, spillway crest, spillway downstream face, energy dissipating structures, intake structures, training walls, piers, abutments, slab etc. with Batching Plant and Transit mixer including shuttering and scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 km. and lift of 1.5 m.</p>			
	(A) M-25 (20 MSA) (Cement 7.62 bags/Cum)	Cum.	4439.35	575.70
34	<p style="text-align: center;">CANAL & ALLIED WORKS</p> <p>Item No.34 :- Providing and laying in situ M-15 (20 MSA) (28 days cube compressive strength not less than 15N/sqmm) grade cement concrete with clean, hard, graded aggregates for canal lining for side and bed including cost of all materials, machinery, labour, cleaning with batching plant and transit mixer placing in position, finishing with all slope of canal including scaffolding, formwork, compaction, curing, by cutting grooves, filling with sealing compound and providing porous plugs, preparation of</p> <p>(Item contd. on next page)</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	sub grade excluding royalty of materials etc. complete with an initial lead of 5 km. and lift of 1.5 m. (A) For Bed Lining (Cement 5.64 bags/Cum) (B) i) For Side Lining with curing compound (Cement 5.64 bags/Cum) ii) For Side Lining without curing compound i.e. by curing with water (Cement 5.64 bags/Cum)	Cum. Cum. Cum.	4280.90 4538.90 4443.50	382.71 302.49 390.02
35	Item No.35 :- Providing and laying in situ mechanised lining in M-15 (20 MSA) (28 days cube compressive strength not less than 15N/sqmm) grade cement concrete with clean, hard, graded aggregates for canal side and bed using vibrating cylindrical type mechanical paver including cost of all materials, machinery, labour, cleaning with batching plant and transit mixer, finishing with all slope of canal including scaffolding, formwork, compaction, curing, by cutting grooves, filling with sealing compound and providing porous plugs, preparation of sub grade excluding royalty of materials etc. complete with an initial lead of 5 km. and lift of 1.5 m. (A) For Bed Lining (Cement 5.64 bags/Cum) (B) i) For Side Lining with curing compound (Cement 5.64 bags/Cum) ii) For Side Lining without curing compound i.e. by curing with water (Cement 5.64 bags/Cum)	Cum. Cum. Cum.	4505.65 4763.65 4668.25	382.71 302.49 390.02
36	Item No.36 :- Providing & laying chip masonry back filling behind concrete lining in C.M.1:8 including striking joints, curing, scaffolding etc. complete but excluding pointing, excluding royalty of material. (35% mortar) (Cement 1.25 bags/Cum)	Cum.	1450.95	412.60
37	Item No.37 :- Providing, laying, erecting and dismantling M.S. plates form work for side lining (for steeper slopes only) (To be used with prior approval of C.E.)	Sqm.	160.95	79.77

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
38	<p>Item No.38 :- Providing and laying polythene film of 031 properly manufactured from 100% virgin granules confirming to I.S. 2508-1984 with 1.5 to 2.5 m. package in rolls/ as per specifications.</p> <p>(A) 200 microns (B) 400 microns (C) 600 microns</p>	Sqm. Sqm. Sqm.	42.40 82.85 123.25	1.99 1.99 1.99
39	<p>Item No.39 :- Providing and laying 40 and 45 cm. thick UCR masonry in C.M. 1:5 for side lining of the canal including raking joints, scaffolding and curing etc. complete excluding pointing, excluding royalty of material with lead up to 50 m. and lift up to 1.5 m. (35% mortar) (Cement 2.00 bags/Cum)</p>	Cum.	2011.45	638.68
40	<p>Item No.40 :- Providing and laying cement plaster 6 mm thick in C.M. 1:3 single coat without neru finish to concrete surface in all position including scaffolding, curing, including etc. complete. (Cement 0.057 bags/Sqm)</p>	Sqm.	89.55	49.18
CANAL STRUCTURES				
41	<p>Item No.41 :- Providing and laying in situ cement concrete of grade M-10 of trap/ granite / quartzite / graded metal for foundation and bedding with Batching Plant & Transit Mixer including shuttering, placing, compacting, curing, etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p> <p>(A) M-10 (20 MSA) (Cement 4.4 bags/Cum) (B) M-10 (40 MSA) (Cement 4.4 bags/Cum) (C) M-10 (80 MSA) (Cement 4.33 bags/Cum)</p>	Cum. Cum. Cum.	3629.75 3629.75 3575.80	683.24 683.24 683.24
42	<p>Item No.42 :- Providing and laying in situ cement concrete of grade M-15 of trap/granite/gneiss/quartzite/ graded metal for foundation and bedding by Batching Plant and Transit Mixer including shuttering,scaffolding,placing,compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m. (Item contd. on next page)</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	(A) M-15 (20 MSA) (Cement 5.64 bags/Cum)	Cum.	3900.20	683.24
	(B) M-15 (40 MSA) (Cement 5.20 bags/Cum)	Cum.	3782.45	683.24
	(C) M-15 (80 MSA) (Cement 4.99 bags/Cum)	Cum.	3697.70	683.24
43	<p>Item No.43 :- Providing and laying in situ cement concrete of grade M-15 of trap / granite / gneiss / quartzite / graded metal for RCC works of retaining walls, piers, abutments, etc. with Batching Plant & Transit mixer, including shuttering, scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p> <p>(A) M-15 (20 MSA) (Cement 5.64 bags/Cum) i) For Abutment, wing walls, returns, transition walls Cum. 4451.60 773.58 ii) For Piers Cum. 4560.35 815.76</p> <p>(B) M-15 (40 MSA) (Cement 5.20 bags/Cum) i) For Abutment, wing walls, returns, transition walls Cum. 4333.85 773.58 ii) For Piers Cum. 4442.65 815.76</p> <p>(C) M-15 (80 MSA) (Cement 4.99 bags/Cum) i) For Abutment, wing walls, returns, transition walls Cum. 4252.85 773.58 ii) For Piers Cum. 4361.60 815.76</p>			
44	<p>Item No.44 :- Providing and laying in situ cement concrete of grade M-20 of trap / granite / gneiss / quartzite / graded metal for RCC works of abutment, wing walls, returns, transition walls, columns, beams and slabs, diaphragm walls, Road slabs trough (Box Culvert) trough for aqueduct, wearing coat, etc. with Batching Plant and Transit mixer including shuttering, scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.</p> <p>(A) M-20 (20 MSA) (Cement 6.60 bags/Cum) i) For Abutment, wing walls, returns, transition walls Cum. 4693.10 773.58 ii) For Piers Cum. 4801.85 815.76 iii) Columns Cum. 6324.65 1406.19 iv) Beams and slabs Cum. 6564.15 1373.76</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	v) Road Slab, kerb, super passage/slab culvert etc.	Cum.	6385.65	1312.10
	vi) Trough resting on ground	Cum.	5859.65	1130.43
	vii) Trough for aqueduct	Cum.	7080.70	1552.17
	viii) Wearing Coat and other required concrete (B) M-20 (40 MSA) (Cement 6.08 bags/Cum)	Cum.	3605.40	351.84
	i) For Abutment, wing walls, returns, transition walls	Cum.	4555.25	773.58
	ii) For Piers	Cum.	4664.05	815.76
45	Item No.45 :- Providing and laying in situ cement concrete of grade M-25 of trap / granite / gneiss / quartzite / graded metal for RCC works of columns, beams and slabs, diaphragm walls, Road slabs trough (Box Culvert) trough for aqueduct, wearing coat, etc. with Batching Plant and Transit mixer , including shuttering, scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m. (A) M-25 (20 MSA) (Cement 7.62 bags/Cum)			
	i) Columns	Cum.	6581.25	1406.19
	ii) Beams and slabs	Cum.	6820.75	1373.76
	iii) Road Slab, kerb, super passage / slab culvert etc.	Cum.	6642.25	1312.10
	iv) Trough resting on ground	Cum.	6116.25	1130.43
	v) Trough for aqueduct	Cum.	7337.30	1552.17
	vi) Wearing Coat	Cum.	3862.00	351.84
46	Item No.46 :- Providing and laying in situ cement concrete of grade M-30 for trough of aqueduct etc. of trap / granite / gneiss / quartzite / graded metal with Batching Plant and Transit mixer, including shuttering, scaffolding including placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m. (A) M-30 (20 MSA) for trough of aqueduct (Cement 9.20 bags/Cum)			
	(B) M-30 (20 MSA) for slab (Cement 9.20 bags/Cum)	Cum.	7682.90	1552.17
		Cum.	7166.35	1373.76

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
47	<p>Item No.47 :- Providing and laying expansion / construction joint with 18 SWG copper plate and shalitek expansion pad below and above the copper plate including sealing the joint with shalitek sealing compound etc. complete including 50x50x5 mm angle frame with stainless steel bolts etc. (For all slab thickness).</p> <p>(A) 60 cm wide copper plate</p> <p>(B) 37.50 cm wide copper plate</p>	<p>Sqm.</p> <p>Sqm.</p>	<p>11942.85</p> <p>13865.05</p>	<p>369.52</p> <p>591.23</p>
48	<p>Item No.48 :- Providing and laying expansion / construction joint with shalitek super expansion pad (jute fiber) 12 mm thick including sealing the joint with shalitek sealing compound etc. complete (For all slab thickness).</p>	Sqm.	1033.95	135.40
49	<p>Item No.49 :- Providing and fixing G.I. sheet 24 gauge and 22.5 cm. wide for the construction joint in R.C.C. trough wall including cutting 15 cm. overlap, riveting the joints and fixing in position etc. complete.</p>	Rmt.	163.60	27.58
50	<p>Item No.50 :- Cutting, bending, hooking, laying in position and tying M.S./HYSD/TMT bars for reinforcement of R.C.C. work as per detailed drawing etc. complete.</p>	MT	7062.85	6460.49
51	<p>Ferro Cement (Items to be implemented with prior permission of Chief Engineer)</p> <p>Item No.51 :- Providing and Fixing and erecting, welding 8 mm MS bar @ 200 mm C/c both ways for ferrocement walling with welded mesh of size 100x100x2.30 mm and chicken mesh 3 layers.</p>	Sqm	694.55	85.47
52	<p>Item No.52 :- Providing and casting Ferro cement wall in C.M. 1:3 including curing etc complete.</p> <p>(A) 30 mm thick wall</p> <p>(B) 40 mm thick wall</p> <p>(C) 50 mm thick wall</p>	<p>Sqm.</p> <p>Sqm.</p> <p>Sqm.</p>	<p>405.10</p> <p>533.15</p> <p>660.60</p>	<p>274.81</p> <p>366.04</p> <p>458.38</p>

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	CENTERING ITEMS			
53	Item No.53 :- Providing, erecting and laying steel shuttering formwork and making surface suitable for concreting including dismantling etc. complete.			
	(A) For abutments, piers, wings, returns etc.	Sqm.	334.65	129.76
	(B) For RCC Solid / Deck slab / Box Cells / Trough of Aqueduct etc.	Sqm.	375.70	129.76
	(C) For curved surface	Sqm.	401.60	155.72
54	Item No.54 :- Providing and erecting steel props centering			
	(A) Up to 3.00 m height including bracing, strengthening and dismantling etc. complete.	Sqm.	185.40	79.29
	(B) Rate for centering for every Additional 1.00 m height	Sqm.	67.10	39.65
	U.C.R. MASONRY			
55	Item No.55 :- Providing U.C.R. masonry in C.M. 1:5 in foundation up to 0.5 m above G.L. with 50 m. lead and lift up to 1.5 m. including striking joints, curing, excluding royalty of material etc. complete.			
	(A) Thickness of wall up to 1 m (30% mortar)	Cum.	1606.20	369.56
	(B) Walls of water retaining structures thinner than 1.0 m. and walls of structures thicker than 1.0 m. other than dams and water retaining structures. (35% mortar).	Cum.	1623.40	298.54
	(C) For dams and water retaining structures (45% mortar)	Cum.	1797.30	298.54
56	Item No.56 :- Providing U.C.R. masonry in C.M. 1:6 in foundation up to plinth with 50 m. lead and lift up to 1.5 m. including striking joints, curing excluding royalty of material etc. complete.			
	(A) (30% mortar)	Cum.	1535.75	369.56
	(B) (35% mortar)	Cum.	1540.35	298.54
	(C) (45% mortar)	Cum.	1689.15	298.54

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
57	<p>Item No.57 :- Providing U.C.R. masonry in C.M. 1:5 in superstructure with 50 m. lead and lift up to 1.5 m. including striking joints and excluding royalty of material etc. complete</p> <p>(A) Thickness of walls up to 1 m. (30% mortar)</p> <p>(B) Walls of water retaining structures thinner than 1.0 m. and walls of structures thicker than 1.0 m. other than dams and water retaining structures. (35% mortar).</p> <p>(C) For dams and water retaining structures (45% mortar)</p>	<p>Cum.</p> <p>Cum.</p> <p>Cum.</p>	<p>1624.70</p> <p>1638.30</p> <p>1821.45</p>	<p>388.04</p> <p>313.46</p> <p>322.68</p>
58	<p>Item No.58 :- Providing khandki facing to the face of masonry with pointing in C.M. 1:2 including finishing to the required shape & slope with necessary scaffolding, curing and excluding royalty of material etc. complete with lead of 50m. (It is assumed that the Khandkis are of the size 20cm x 20cm. No mortar for jointing is taken into account, only face pointing of joint is considered).</p> <p>(A) With khandki facing on one side</p> <p>(B) With khandki facing on both side.</p>	<p>Sqm.</p> <p>Sqm.</p>	<p>1397.65</p> <p>1346.55</p>	<p>81.79</p> <p>81.79</p>
59	<p>Item No.59 :- Providing and laying dry stone rubble masonry excluding pointing and royalty of material.</p>	<p>Cum.</p>	<p>799.60</p>	<p>216.25</p>
60	<p>Item No.60 :- Providing pointing with cement mortar for stone masonry including racking joints, scaffolding, curing excluding royalty of material etc. complete.</p> <p>(A) In Cement mortar 1:3</p> <p>(B) In Cement Mortar 1:2</p>	<p>Sqm.</p> <p>Sqm.</p>	<p>39.70</p> <p>43.80</p>	<p>28.05</p> <p>28.31</p>
61	<p>Item No.61 :- Providing and constructing coarse rubble masonry II sort in C.M. 1:4.5 for super structure with lead up to 50m. and lift up to 1.5m. including striking joints, curing excluding royalty of material etc. complete excluding cement pointing etc. complete. 30% mortar.</p>	<p>Cum.</p>	<p>4012.25</p>	<p>610.99</p>

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
62	Item No.62 :- Cutting rectangular grooves of size 10 cm x 10 cm in stone masonry including clearing pointing etc. to facilitate smooth working of needles etc. complete.	Rmt.	1007.65	1007.66
63	Item No.63 :- Providing and laying rough dressed cut stone coping 23 cm. thick in C.M. 1:5 excluding cement pointing but including watering with lead 50 m. and lift up to 1.5 m., excluding royalty of material etc. complete.	Cum.	4743.40	2148.88
64	Item No.64 :- Providing coalgrout U.C.R. masonry in C.M. 1:3 (43% mortar) proper packing rubble and of the required shape and quality with the coalgrout at required pressure with 50 m. lead and lift up to 1.5 m. including scaffolding, watering and excluding royalty of material etc. complete. (Excluding formwork and staging)	Cum.	2486.65	291.19
BRICK MASONRY				
65	Item No.65 :- Providing B.B. masonry with conventional I.S. type bricks for super structure including striking joints, watering, scaffolding with lead up to 50 m. and lift up to 1.5 m., including cost of material and excluding royalty of material.	Cum.	4127.95	413.18
66	Item No.67 :- Providing B.B. masonry with conventional I.S. type bricks in cement mortar 1:5 in super structure up to floor level including mild steel reinforcement of 2 bars of 6 mm dia. placed by every 3rd course properly bent, bounded at ends, scaffolding, watering etc. complete with lead up to 50 m. and lift up to 1.5 m. including cost of material and excluding royalty of material.	Sqm.	563.65	56.69
PIPE LAYING				
67	Item No.67 :- Laying and jointing R.C.C. pipe of NP2 class or IRC standard in C.M. 1:2 , proportion by volume including cost of all materials (excluding pipes and collars), labour, aligning pipes, batching and mixing mortar, packing joints with hemp and mortar, finishing, curing etc. complete with lead up to 50 m and all leads. (Item contd. on next page)			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	(A) 1200 mm dia	Rmt.	389.90	235.71
	(B) 1000 mm dia	Rmt.	291.75	176.86
	(C) 900 mm dia	Rmt.	280.30	176.86
	(D) 800 mm dia	Rmt.	268.85	176.86
	(E) 600 mm dia	Rmt.	205.65	147.44
	(F) 450 mm dia	Rmt.	159.05	118.02
	(G) 300 mm dia	Rmt.	141.65	118.02
68	Item No.68 :- Laying and jointing R.C.C. pipe of NP3 class or IRC standard in C.M. 1:2 , proportion by volume including cost of all materials (excluding pipes and collars), labour, aligning pipes, batching and mixing mortar, packing joints with hemp and mortar, finishing, curing etc. complete with lead up to 50 m and all leads.			
	(A) 1200 mm dia	Rmt.	460.60	306.42
	(B) 900 mm dia	Rmt.	333.35	229.92
69	Item No.69 :- Laying and jointing R.C.C. pipe of P1 class of 900 mm dia or IRC standard in C.M. 1:2 , proportion by volume including cost of all materials (excluding pipes and collars), labour, aligning pipes, batching and mixing mortar, packing joints with hemp and mortar, finishing, curing etc. complete with lead up to 50 m and all leads.	Rmt.	333.35	229.92
70	Item No.70 :- Providing and laying in situ cement concrete of grade M-20 of trap / granite / gneiss / quartzite / graded metal for Staunch wall with Batching Plant & Transit Mixer , including shuttering, scaffolding, placing, compacting, curing etc. complete with an initial lead of 5 Km. & lift of 1.5 m.	Cum.	6917.60	1636.51
71	Item No.71 :- Providing and fixing RCC Boundary / Guard / Chainage blocks of size 75 x 20 x 20 cm including excavation and fixing in a block of 45 x 45 x 45 cm in M-15 Concrete with oil painting of two coats, lettering etc. complete, height of stone above GL 40 cm.	No.	616.45	97.41

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
72	Item No.72 :- Providing and fixing RCC Km / half km / submergence/ boundary blocks of size 95 x 20 x 20 cm including excavation and fixing in a block of 45 x 45 x 45 cm in M-15 Concrete with oil painting of two coats, lettering etc. complete, height of stone above GL 60 cm.	No.	731.95	152.78
73	Item No.73 :- Providing and fixing canal information board of 1.2 x 0.75 m prepared on 16 gauge M.S. sheet with angle iron frame of size 35 X 35 X 3 mm with cross bracing of size 25 X 25 X 3 mm including painting with one coat of zinc chromate storing primer and two coats each of green/white back ground and back side grey store enamelled bonded with red retro reflective sheet Engineering grade, border / letters / numeral / arrows coated with non pealable crystal clear protective transparent coat retaining 100% reflection including two angle iron post of size 50X50X5 mm of 3.65 m long inflated at bottom drilled on top and painted in white and black bonds of 30 cm with four numbers high strength of G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete in M-15 block of size 60 X 60 X 75 cm as directed by engineer-in-charge.	No.	4474.15	1831.32
74	Item No.74 :- Providing and laying rubble soling below foundation in layers including filling with rubble chips, murum etc. complete (excluding royalty of material)	Cum.	817.60	373.62
75	Item No.75 :- Back filling up to ground level behind the canal structures etc. complete (without royalty) with suitable material of approved quality in layers not exceeding 20 cm without disturbing the structure etc. complete.	Cum.	32.95	2.23

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
76	<p>Item No.76 :- Providing and constructing contraction joints by fixing 310 mm wide central bulb type approved quality PVC water stop in two lines with 8 mm dia. Steel dowel rods on either side at 1 m interval, forming 125 X 125 size groove in between 2 water stops for filling asphalt, fixing 15 mm dia. two legged G.I. pipe with U-bend at bottom for circulating steam at interval and forming 150 mm dia. formed drain behind water seals including cost of all materials, machinery, labour, filling asphalt in groove, circulation of steam at intervals, vulcanizing water seal joints etc. complete with all leads and lifts.</p>	Rmt.	1369.20	125.11

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**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-4

MAINTENANCE AND REPAIRS



ITEM NO 77 TO 101

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
MAINTAINANCE & REPAIRS

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
77	Item No.77 :- Dismantling the Stone Masonary in cement mortar including stacking the material as directed with 15 m. lead and 1.5 mtr. lift	Cum.	168.25	168.25
78	Item No.78 :- Dismantling the old lime concrete or cement concrete including stacking the material as directed with 15 m. lead and 1.5 mtr. Lift.	Cum.	202.70	202.70
79	Item No.79 :- Dismantling R.C.C. works and removing the stuff to a distance of 15 m and 1.50 mtr. lift including stacking etc. complete as directed.	Cum.	304.05	304.05
80	Item No.80 :- Cleaning cutting thorny shrubs bushes, grass as directed with 15m lead and lift up to 1.5m.	Sqm.	1.90	1.90
81	Item No.81 :- Cutting down trees including cutting trunks & branches and stacking the material as directed with 15 mtr. lead and lift up to 1.5 mtr. etc. complete including up roofing and refilling the pit with material as directed (excluding extra material required for refilling) (A) Girth between 30 cm to 60 cm (B) Girth between 60 cm to 90 cm (C) Girth between 90 cm to 1.5 mtr. (D) Girth between 1.50 mtr to 3.00 mtr. (E) Girth between 3.00 mtr to 4.50 mtr.	No. No. No. No. No.	195.30 233.90 426.65 619.30 1004.80	154.18 192.78 385.53 578.18 963.68
82	Item No.82 :- Numbering road and canal sites trees including painting etc. complete.	No.	11.55	5.33
83	Item No.83 :- Removing dry silt from the canal bed and stacking as directed with 15 mtr. lead and 1.50 mtr. lift etc. complete.	Cum.	45.60	45.60

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
84	Item No.84 :- Removing wet silt from canal bed with 15.00 mtr. lead and 1.50 mtr. including depositing the excavated stuff as directed.	Cum.	67.15	67.15
85	Item No.85 :- Removing old paint from steel and other surface with flame, cleaning and making the surface even including scaffolding etc. complete.	Sqm.	33.90	30.39
86	Item No.86 :- Providing and applying Primer Red Oxide Paint in two coats including surface preparation, chipping the welding, cleaning spatters, dust etc. complete.	Sqm.	184.40	99.10
87	Item No.87 :- Providing and applying anticorrosive coal tar black paint IS 290-1961 in two coats including surface preparation, chipping the welding, cleaning spatters, dust etc. complete.	Sqm.	246.65	197.20
88	Item No.88 :- Providing and applying anticorrosive H.D. black paint for upstream side in two coats including surface preparation, chipping the welding, cleaning spatters, dust etc. complete.	Sqm.	244.55	131.90
89	Item No.89 :- Providing and applying two coats of flat oil paint of approved colour and shade to internal/external plastered surfaces including scaffolding if necessary clearing and preparing surfaces excluding primer paint.	Sqm.	68.00	33.00
90	Item No.90 :- Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted including scaffolding if necessary clearing & preparing surface excluding primer coat etc. complete.	Sqm.	65.75	33.30
91	Item No.91 :- Providing and applying two coats of lead/zinc base oil paint/bituminous paint of approved colour and shade to wood work/fibre boards previously painted including scaffolding if necessary, preparing surface excluding primary coat etc. complete.	Sqm.	87.00	42.60

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
92	Item No.92 :- Providing and applying coat tar in one coat on previously painted wood work including preparing the surface scaffolding etc. complete.	Sqm.	18.55	11.20
93	Item No.93 :- Applying geru wash and white wash to canal road side Km stones / Boundary stones/ Ch. stones/bottom of trees, etc.	No.	47.95	38.60
94	Item No.94 :- Removing M.S. needles from the K.T. Weir opening before onset of the mansoon for Passing the flood water through the K.T. Weir openings including conveying the same up to the river banks, stacking the same as directed with all leads and lifts etc. complete.	No.	119.50	116.60
95	Item No.95 :- Transportation of M.S. Needles from the river bank to the store shed / safe place or from store shed/safe place to river bank by Bullock cart including loading unloading and stacking as directed with all leads and lifts etc. complete (Lead Half km)	No.	37.30	37.30
96	Item No.96 :- Providing supplying and applying 1 coats of red oxide to the steel structure as a primary coat including cleaning, scrubbing for preparing the surface to apply paint with lead up to 15 mt. and lift up to 1.50 mt.etc complete for one needle.	Sqm.	132.45	84.20
97	Item No.97 :- Fixing of M.S. Needles in weir openings after offset of the mansoon for storage of Water from post mansoon river flow and making it water tight by using wooden pegs, Dungry cloth & empty cement bags etc. with all leads & lifts and including all material and labour etc. complete.	Needle	296.50	78.30

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
98	Item No.98\1 :- Cleaning by redrilling the vertical porous drain pipes including removing of leaching material, grout material if any inside of the V.P.D. etc complete with all leads and lifts. (Vertical upward drilling) (A) From 0 to 5 m. (B) From 5 to 10 m. (C) From 10 to 15 m. (D) From 15 to 20 m.	Rmt. Rmt. Rmt. Rmt.	6167.30 6784.00 7400.75 7709.10	1054.00 1159.40 1264.80 1317.50
99	Item No.99 :- Providing and applying single coat of epoxy primer (4.42 sqm per kg) (Resin : Hardner 2:1) on old UCR / concrete surface etc. Complete.	Sqm.	363.10	80.10
100	Item No.100 :- Providing & applying of Epoxy Mortar layers to Monolith joint of Masonry Dam with all lead & lift etc. complete.	Kg.	167.40	52.30
101	Item No.101 :- Providing & laying plastic film 500 micron HDPE Geomembrane film confirming to IS: 15351:2015 Type II as per specification including laying etc complete.	Sqm.	84.80	15.20

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-5

LIFT IRRIGATION SCHEME



ITEM NO 102 TO 124

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
LIFT IRRIGATION SCHEME

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
102	<p>Item No.102 :- Excavation for deep trenches for laying rising main in Earth, Soil of all types, sand, gravel and soft murum including trimming to correct line, level and to specified widths including removing the excavated material and stacking or spreading the same up to a distance of 15 metres and lifts of 1.5 m as directed, preparing the bed for foundation and necessary safety precautions , keep the trench undisturbed till pipe laying & fixing necessary specials etc complete as per detailed specifications. (Payable measurements with vertical excavation)</p>	Cum.	76.20	20.00
103	<p>Item No.103 :- Excavation for deep trenches for laying rising main in Hard murum, soft bhisra, hard man and boulder including trimming to correct line and level and to specified width, including removing the excavated material and stacking or spreading the same up to a distance of 15 metres and lifts of 1.5 m as directed, preparing the bed for foundation and necessary safety precautions , keep the trench undisturbed till pipe laying & fixing necessary specials etc complete as per detailed specifications. (Payable measurements with vertical excavation)</p>	Cum.	93.10	27.00
104	<p>Item No.104 :- Excavation for deep trenches for laying rising main in Soft Rock by crow bar and shavel including trimming to correct line and level and to specified width including trimming and levelling the bed by chiselling, removing the excavated material and stacking the same up to a distance of 15 metres and lifts of 1.5 m as directed and safety precautions to keep the trench undisturbed till pipe laying & fixing necessary specials etc complete as per detailed specifications. (Payable measurements with vertical excavation)</p>	Cum.	112.90	25.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
105	<p>Item No.105 :- Excavation for deep trenches for laying rising main in Hard Rock of any toughness by blasting to correct line and level and to specified width including trimming and levelling the bed as directed, removing the excavated material and sorting, stacking the same up to a distance of 15 metres and lifts of 1.5 m as directed, preparing the bed for foundation and keep the trench undisturbed till pipe laying & fixing necessary specials etc complete as per detailed specifications. (Payable measurements with vertical excavation)</p>	Cum.	411.30	348.40
106	<p>Item No.106 :- Murum bedding in trenches with murum of approved quality in layers not exceeding 150 mm to 200 mm, each layer shall be consolidated by watering and ramming as directed etc complete.</p>	Cum.	151.10	109.49
107	<p>Item No.107 :- Providing and filling in sand boxing in trenches with sand of approved quality including watering and compaction as directed etc complete.</p>	Cum.	764.20	107.13
108	<p>Item No.108 :- Backfilling the trenches in layers not exceeding 300 mm, each layer shall be consolidated by watering and ramming without disturbing the pipe line with excavated stuff as directed including breaking of clods of soil etc complete. (The backfilling on the two sides of the pipeline should be carried out simultaneously)</p>	Cum.	157.90	157.90
109	<p>Item No.109 :- Manufacturing, Providing and Supplying spirally welded / ERW / SAW / fabricated M.S. pipes (Commercial Quality) made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size, rolling, tack welding, assembling in suitable lengths to form pipes, all continuous spiral/circumferential and longitudinal welding to form a pipe on automatic welding machine using electrodes having weldmark E7018 (Low Hydrogen electrodes) and forming 'V' edge on both ends of pipes, (Item contd. on next page)</p>	Kg.	66.25	12.38

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	third party inspection charges, lowering and laying to correct position on prepared bedding or on pedestals or chairs, field hydraulic testing at specified test pressure as per IS 5822: 1994 sec 11, field welding to join pipes after laying, Radiographic (5%) and ultrasonic (10%) testing of welds including all equipments submitting report, expert personnel required for testing, interpreting and submitting report along with develop film where applicable, all incidental charges etc complete as per IS - 3589:2001 and as per specifications (No negative Tolerance in thickness is permissible).			
110	Item No.110 :- Lowering, laying in position to correct line & level including M.S. pipes with / without any outcoating on prepared bedding or on pedestals or chairs or upon prepared formation including loading, unloading, hoisting, marginal cutting wherever required, assembling and tack welding, and transportation up to 500 m etc. completed as specified with all lead & lift etc. complete including field hydraulic testing at specified pressure and as per procedure mentioned in section 11 of IS 5822: 1994 . (item to be used only in situations where pipes are already procured)	Kg.	6.70	3.89
111	Item No.111 :- Manufacturing, Providing and Supplying tapers made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding, full welding on either automatic welding machine or manually and forming 'V' edge on both ends for welding it to pipe, including fabrication & full welding of stiffeners as per design requirements, third party inspection charges, lowering & laying to correct position etc, complete as per IS - 3589 and IS - 5504 as applicable and as per detailed specifications. Cost of longitudinal welding and " V " edging required for circumferential welding required to connect MS special to Rising main / delivery pipes is inclusive in the rate however circumferential welding for connecting the M.S. special to Rising main shall be paid separately on running meter basis. (No negative Tolerance in thickness is permissible)	Kg.	69.70	14.85

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
112	<p>Item No.112 :- Manufacturing, Providing and Supplying "Y" connection with Crotch plate made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding, full welding on either automatic welding machine or manually and forming 'V' edge on all the three ends for welding it to pipe, including fabrication and full welding of crotch plate and stiffeners as per design requirements, third party inspection charges ,lowering & laying to correct position etc, complete as per IS - 3589 and IS - 5504 as applicable as per detailed specifications. Cost of welding of crotch plate is included in the rate. Cost of longitudinal welding and " V " edging required for circumferencial welding required to connect MS special to Rising main /delivery pipe is inclusive in the rate however circumferencial welding required for connecting Y-piece to Rising main / manifold pipe shall be paid separately on running meter basis. (No negative Tolerance in thickness is permissible).</p>	Kg.	80.00	18.57
113	<p>Item No.113 :- Manufacturing, Providing and Supplying "Y " and "T" branches with collar plate made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding, full welding on either automatic welding machine or manually and forming 'V' edge on both ends for welding it to pipe, including fabrication & full welding of collar plate and stiffeners as per design requirements, third party inspection charges ,lowering & laying to correct position etc, complete as per IS - 3589 and IS - 5504 as applicable as per detailed specifications. Cost of "V" edging, machining and welding of collar plate in "Y" and "T" connection is included in the rate. Cost of longitudinal welding and "V" edging required for circumferencial welding required to connect MS special to Rising main / delivery pipes is inclusive in the rate however circumferencial welding required to connect Y/T to Rising main or manifold shall be paid separately on running meter basis. (No negative Tolerance in thickness is permissible).</p>	Kg.	71.30	16.09

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
114	<p>Item No.114 :- Manufacturing, Providing and Supplying manhole covers made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding and full welding on either automatic welding machine or manually and forming 'V' edge on both ends, including fabrication and full welding of stiffeners as per design requirements, lowering & laying to correct position etc, third party inspection charges complete as per IS - 3589 and IS - 5504 as applicable and as per detailed specifications. Cost of longitudinal welding and 'V' edging required for circumferencial welding required to connect MS special to Rising main /delivery pipes is inclusive in the rate however circumferencial welding required for connecting man hole to Rising main shall be paid separately on running meter basis. Cost of washers , nuts, bolts, etc. required for fixing manhole cover is included in the rate. (No negative Tolerance in thickness is permissible).</p>	Kg.	71.30	16.09
115	<p>Item No.115 :- Manufacturing, Providing and Supplying M S bends made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding, full welding on either automatic welding machine or manually and forming 'V' edge on both ends for welding it to pipe, including fabrication & full welding of stiffeners as per design requirements, lowering & laying to correct position, third party inspection charges etc, complete as per IS - 3589 and IS - 5504 as applicable as per detailed specifications. Cost of longitudinal welding and " V " edging required for circumferencial welding required to connect MS special to Rising main /delivery pipes is inclusive in the rate however circumferencial welding required for connecting M.S. special to Rising Main shall be paid separately on running meter basis. (No negative Tolerance in thickness is permissible).</p>	Kg.	71.30	16.09

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
116	<p>Item No.116 :- Manufacturing, Providing and Supplying short pipes, cants made out of MS plate conforming to IS 2062:1992 including procurement of plates, gas cutting to required size and shape, rolling, tack welding, full welding on either automatic welding machine or manually and forming 'V' edge on both ends for welding it to pipe, including fabrication and full welding of stiffeners as per design requirements, lowering & laying to correct position third party inspection charges etc, complete as per IS - 3589 and IS - 5504 as applicable as per detailed specifications. Cost of longitudinal welding and " V " edging required for circumferencial welding required to connect MS special to Rising main /delivery pipes is inclusive in the rate however circumferencial welding required for connecting M.S. special to Rising Main shall be paid separately on running meter basis. (No negative Tolerance in thickness is permissible).</p>	Kg.	66.75	13.61
117	<p>Item No.117 :- Radiographic testing of welded butt joints in Rising main as per Procedure given in IS 4853:1982 including cost of all materials, equipments & expert personnel required for testing, developing, interpreting and submitting report along with developed films, including all incidental charges, transportation to site and local transportation on site etc. complete.</p>	Rmt.	1388.40	836.71
118	<p>Item No.118 :- Ultrasonic testing of field welded joints as per Procedure laid down in IS 4260:1986 including actual testing, interpreting and submitting test report in detail including cost of all materials, equipments & expert personnel required for testing, developing, interpreting and submitting report, including all incidental charges, transportation to site and local transportation on site etc. complete.</p>	Rmt.	324.60	184.42
119	<p>Item No.119 :- Cleaning the surface of rising main pipe by Sand Blasting to expose fresh metal surface ready for painting including removal of all rust, oil, grease, etc. as per specification including all material, labour and equipments etc complete.</p>	Sqm.	70.30	19.62

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
120	<p>Item No.120 :- Providing & applying Liquid epoxy coating system to the external surface of Rising Main Pipes as per Annex-B of IS 3589:2001, preferably by airless spray with one coat of Zinc rich epoxy primer (90 % zink (DFT 40 micron , coverage 9 Sqm / lit) and two coats of coal tar epoxy paint (DFT 120 X 2 micron coverage 5 Sqm / Lit / coat) including cleaning the surface to the satisfaction of Engineer in charge by sand blasting / scraping removing oil, grease, other foreign materials including all necessary material , labour with all leads and lifts etc. complete.</p>	Sqm.	549.70	335.00
121	<p>Item No.121 :- Providing & applying Liquid epoxy coating system to the interior surface of Rising Main Pipes as per Annex - B of IS 3589:2001, preferably by airless spray with one coat of Zinc rich epoxy primer (90% zink ,DFT 40 micron , coverage 9 Sqm / lit) and three coats of coal tar epoxy paint (DFT 120 X 3 micron coverage 5 Sqm/Lit/coat) including cleaning the surface to the satisfaction of Engineer in charge by sand blasting / chemical cleaning / scraping removing oil, grease, other foreign materials including all necessary material, labour with all leads and lifts etc. complete.</p>	Sqm.	677.50	426.00
122	<p>Item No.122 :- Providing and applying external 25 mm thick cement mortar coating in CM 1 : 3 (cement consumption 15.94 kg/sqm) pneumatically under pressure of 2.1 to 2.8 kg /Sq cm, with weld mesh 50 x 50 x 2.54 mm (13 gauge), after duly cleaning the surface by wire brushing, degreasing etc. including necessary admixtures (200 ml / bag of cement), curing, rehandling the pipe from fabrication shop to guniting place and from guniting place to laying location etc. complete with all leads & lifts.</p>	Sqm.	464.20	59.88

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
123	<p>Item No.123 :- Providing inner cement mortar lining of specified thickness in proportion 1:1.5 using mechanical spinning machine, including all necessary labour, material, plants and equipments, local handling etc. complete as per procedure laid down in IS 3589:2001.</p> <p>(A) For 9 mm thick inner mortar lining</p> <p>(B) For 12 mm thick inner mortar lining</p>	<p>Sqm.</p> <p>Sqm.</p>	<p>315.60</p> <p>394.77</p>	<p>95.70</p> <p>100.00</p>
124	<p>Item No.124 :- Providing 'X' Ray Quality M.S. Welding in all positions with required number of runs, for M.S. pipes internally and / or externally including gauging wherever necessary, fixing appurtenances and other accessories in connection with pipe laying work as per specification, using electrodes having weldmark E7018 (Low hydrogen electrodes), including Surface preparation (i.e. Removal of scale, cleaning, etc.) including all materials, labour, equipments, etc. complete.</p> <p>A : Single 'V' Butt Joint</p> <p>Butt Joint : Plate thickness</p>	<p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p> <p>Rmt.</p>	<p>320.00</p> <p>453.00</p> <p>638.00</p> <p>747.00</p> <p>934.00</p> <p>1125.00</p> <p>1348.00</p> <p>1587.00</p> <p>1795.00</p> <p>2055.00</p>	<p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p> <p>--</p>
	<p>6 mm</p> <p>8 mm</p> <p>10 mm</p> <p>12 mm</p> <p>14 mm</p> <p>16 mm</p> <p>18 mm</p> <p>20 mm</p> <p>22 mm</p> <p>25 mm</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	B : Fillet Type Joint			
	Fillet Weld Size			
	4 mm	Rmt.	132.00	--
	5 mm	Rmt.	198.00	--
	6 mm	Rmt.	270.00	--
	8 mm	Rmt.	373.00	--
	10 mm	Rmt.	569.00	--
	12 mm	Rmt.	794.00	--
	14 mm	Rmt.	1085.00	--
	16 mm	Rmt.	1515.00	--

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**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-6

SURVEYING AND INVESTIGATION



ITEM NO 125 TO 146

GOM SOIL & WCD CSR 2017-18

**GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
SURVEYING AND INVESTIGATION**

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	SURVEY WORK - COMPLETED ITEM (WITH TOTAL STATION)			
125	Item No.125 :- Double levelling using Digital state of art Total station to connect Geodetic Trigonometrical survey, bench mark & establishing permanent bench mark at Dam site at place along the canal alignment, submergence & in command area etc complete (Excluding cost of B.M. structure)	Km.	746.00	435.29
126	Item No.126 :- Block contour survey of 10 x 10 m grid (Not less than 121 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper. (A) Total Station (B) DGPS	Ha. Ha.	581.00 219.00	405.42 97.21
127	Item No.127 :- Block contour survey of 15 x 15 m grid (Not less than 64 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper. (A) Total Station (B) DGPS	Ha. Ha.	391.00 148.00	273.25 65.59

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
128	<p>Item No.128 :- Block contour survey of 20 x 20 m grid (Not less than 36 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper.</p> <p>(A) Total Station (B) DGPS</p>	<p>Ha. Ha.</p>	<p>293.00 111.00</p>	<p>204.96 49.19</p>
129	<p>Item No.129 :- Block contour survey of 30 x 30 m grid (Not less than 25 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper.</p> <p>(A) Total Station (B) DGPS</p>	<p>Ha. Ha.</p>	<p>201.00 76.00</p>	<p>140.65 33.75</p>
130	<p>Item No.130 :- Block contour survey of 60 x 30 m grid (Not less than 15 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper.</p>			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	(A) Total Station	Ha.	103.00	72.34
	(B) DGPS	Ha.	39.00	17.36
131	Item No.131 :- Block contour survey of 150 x 30 m grid (Not less than 5 raw data points distributed uniformly over a Hector) for irrigation projects using digital state of art instrument, Including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper.			
	(A) Total Station	Ha.	46.00	32.15
	(B) DGPS	Ha.	17.00	7.71
132	Item No.132 :- Carrying out line survey using digital state of art Total station for fixing FRL/HFL including C/s survey with levels at 20m interval / survey for 'L' section of alternative Dam site and 'L' section of river 1Km U/s 1Km D/s of alternative Dam line etc complete including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages including contour plotting at specified interval and scale. The test print of the drawing shall be approved by engineer-in-charge and the same shall be delivered in a CD format as well as hard copy in six numbers including one print on tracing paper.	Km.	575.00	401.90
133	Item No.133 :- Survey for main canal, branches, distributaries on falling contour including investigation of alternative line, taking falling contour fixing canal line, taking 'L' section and cross section on final line and distributaries survey etc complete. (Excluding fixing apex / chainage stones) including transfer of entire data to computer system in different georeferential layer / themes using features of standard plotting Software compatible with canal irrigation system design Software packages (Item contd. on next page)	Km.	690.00	482.28

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	including contour plotting at specified interval & scale. Absolutely linear survey for all types of canals (Length of survey for L-section and cross sections to be measured separately for payment)			
134	Item No.134 :- Preparation of detailed construction plan for pipe distribution network system including necessary command survey, linear survey for pipe laying, chak planning designing of pipe network and preparation of estimates.	Ha.CCA	356.90	281.42
135	Item No.135 :- Providing permanent bench mark dressed stone of basalt, granite or gneiss of size 30CmX30CmX45Cm at least 15Cm below the ground and embedding it to a depth of 30Cm in grade M-15 in situ concrete of size 90CmX90CmX60Cm deep over 1M deep foundation concrete of grade M-10 including excavation, concrete, providing and fixing dressed stone and backfilling the pit up to ground level with sand etc complete.	No.	4166.00	357.82
136	Item No.136 :- Fixing precast RCC alignment blocks (Pillar) on alternative dam site finally approved of size 900x175x100 mm at 90 M interval including fixing in 1:3:6 (600 x 450 x 450mm) cement concrete, excavation, backfilling and coloring etc as necessary (0.75 kg steel)	No.	421.30	35.41
	SURVEY ITEMS FOR DEPARTMENTAL EXECUTION – (LABOUR RATES ONLY)			
137	Item No.137 :- Supplying labours for Double levelling to connect Geodetic Trigonometrical Survey, Bench mark and establishing the permanent Bench mark at Dam site at place along the canal alignment submergence and in command area etc complete.(Excluding cost of P.B.M. structure)	Km.	830.00	830.00
138	Item No.138 :- Supplying labours for Submergence survey including establishment of temporary bench mark to prepare submergence plan with 1 to 1.5 mt. interval contours etc complete (Grid size 30 x 60 mt.)	Ha.	469.00	469.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
139	Item No.139 :- Supplying labours for Detailed survey of dam seat and waste weir and borrow area finally approved including mapping to the extent 3 meter above the top of dam level on either flanks and 500 meter up-stream and 500m down-stream, showing all important features, rock outcrops, pools, water courses etc complete. (Grid size 30 x 30M)	Ha.	911.00	911.00
140	Item No.140 :- Supplying labours for Survey for longitudinal section of Alternative dam alignment and longitudinal section of river 1.00km. up-stream and 1.00 km. down-stream of alternative dam alignment etc complete.	Km.	2655.00	2655.00
141	Item No.141 :- Supplying labours for Contour survey for command area including preparation of contour map with 1.00m contour interval, including establishing working temporary bench mark in command area etc complete. (Grid size 150 x 30m)	Ha.	204.00	204.00
142	Item No.142 :- Supplying labours for Survey for main canal, branches, distributaries on falling contour, including investigation of alternative line, taking falling contour, fixing canal line, taking longitudinal-section and cross-section of final line and distributaries survey etc complete.	Km.	3318.00	3318.00
143	INVESTIGATION & FOUNDATION EXPLORATION Item No.143 :- Taking trial bore for detailed investigation with NX diamond drill double tube in all sorts of soil like soft murum, hard murum and boulders including all materials such as casing pipes, accessories, grease, steel balsam and other such materials and or as required including conveying such materials and machinery to site of works, preserving the loose samples in glass/plastic jar and core samples serially numbered at site of work and conveying the same to the head quarter of concerned office as directed and submission of detailed bore log sheet complete.(As directed by the Engineer in charge)			

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	(A) Over Burdon	Rmt.	1450.00	225.00
	(B) Soft Rock / Weathered Rock	Rmt.	2068.00	270.00
	(C) Hard Rock other than quartzite	Rmt.	2904.00	270.00
144	Item No.144 :- Providing tun tappa core boxes of jungle wod of size 1.25mx0.35mx0.15m for preserving core sample with all fixtures and fastening handles including locking arrangement etc. complete. (As per PWD Survey RSR 2017-18 rate is 1980/- I.No. 1.49/page no 7) (cost of material excluding labour component Rs.410/- is Rs1570/-. Excluding tax component of 18% material cost comes out to Rs.1330.51/-. Hence rate equals to 1330.50+410=1740.50)	No.	1740.50	410.00
145	Item No.145 :- Carrying out water intake test / permeability test at any stage or depth as may be directed by Engineer In charge by filling the bore hole with water or air at specific pressure of specified limit as and where directed etc completed.	Test	519.20	279.10
146	Item No.146 :- Excavation for taking trial pits on final alignment of dam line and canal at specified interval and in Nalla-bed of size 2.00 x 2.00 x 2.50mtr. in length, breadth and depth respectively or size as may be directed by the Engineer In charge including back filling trial pits etc complete.	Cum.	99.60	7.45

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-7

**ITEMS FOR COST ESTIMATION OF STRUCTURES
IN AFFECTED VILLAGES**



ITEM NO 147 TO 178

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
ITEMS FOR VALUATION OF STRUCTURES IN AFFECTED VILLAGES

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
147	Item No.147 :- Providing and constructing stone masonry in mud mortar in foundation and plinth including scaffolding, finishing etc. complete. (A) Up to Plinth (B) Super structure	Cum. Cum.	951.80 1075.40	385.80 641.40
148	Item No.148 :- Providing and constructing U.C.R. masonry in lime 1:6 mortar in foundation and plinth including scaffolding, finishing etc. complete	Cum.	1704.30	384.30
149	Item No.149 :- Providing second class B.B. masonry with conventional / I.S. type bricks in mud mortar in super structures, including racking out joints, when plastering is to be done including scaffolding and watering etc. complete. (A) For Super structure (B) For foundation and Plinth	Cum. Cum.	4062.40 3909.30	765.40 612.30
150	Item No.150 :- Providing and constructing arch like B.B. Masonry slab roofing including 'I' Section as a bottom support and tie rods with scaffolding, centering etc. complete.	Cum.	1938.70	484.72
151	Item No.151 :- Providing and constructing gawhan for cattle (0.6m x 10.0m) with necessary excavation, CC1:4:8, brick masonry and plastering 12mm thick etc. complete.	Rmt.	1575.70	472.69
152	Item No.152 :- Providing 50 mm. mud plaster including racking out joints, scaffolding all finishing etc. complete.	Sqm.	122.50	99.50
153	Item No.153 :- Providing & Constructing Kud Walls with vertical posts, bamboos and tur/cotton bushes Excluding mud plaster etc. complete.	Sqm.	240.60	85.77

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
154	Item No.154 :- Providing 25 mm thick mud plaster to kud walls including cow dung wash etc. complete.	Sqm.	98.20	87.20
155	Item No.155 :- Providing and constructing Kud walls with clothing of grass / other vegetation with vertical posts and bamboos excluding mud plaster etc. complete.	Sqm.	114.30	17.30
156	Item No.156 :- Providing and constructing Kud walls including mud plaster 25 mm thick on both sides with cow dung wash etc. complete.	Sqm.	437.10	271.10
157	Item No.157 :- Providing and constructing Kud walls, split Bamboo knitted together and covered with 12 mm. thick mud plaster on both sides etc. complete.	Sqm.	338.90	183.90
158	Item No.158 :- Providing and constructing kud roofing with bamboos and balli rafter alongwith tur/cotton bushes excluding mud plaster etc. complete.	Sqm.	421.50	149.50
159	Item No.159 :- Providing and fixing non teak wood Dhaba including mud flooring and mud plaster on non teak planks, rested on non teak rafter at 1.5 X 2.5 m. intervals, including mud flooring over the planks etc. complete (Jungle wood Dhaba)	Sqm.	3963.00	171.00
160	Item No.160 :- Providing and fixing teak wood dhaba including mud flooring and mud plasters on non teak wood planks rested on teak wood rafters 1.5 X 2.5 m. intervals including mud flooring etc. complete (vertical posts and beams are considered in teak wood)	Sqm.	7545.20	139.20
161	Item No.161 :- Providing and constructing split bamboo mesh knitted together including all labour material lead and lift etc. complete.	Sqm.	271.20	45.20
162	Item No.162 :- Providing and constructing mud boulder otta with earthen Ranjan.	No.	852.00	295.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
163	Item No.163 :- Providing and constructing Mud Wall including preparation of mud mortars surface done placing scaffolding etc.	Cum.	1267.65	930.65
164	Item No.164 :- Providing and fixing non teak doors /windows 40 mm. Thick ledged with 25 mm. Thick plain planked shutters without ventilators /fan light /iron bars including the frames of the sizes as per standard specification, iron fixtures and fastenings and finishing the wood work with oiling etc. complete.	Cum.	3972.20	1327.20
165	Item No.165 :- Providing and fixing non teak doors / window II class fully pannelled without ventilators /fan light /iron bars including the frames of the sizes as per standard specification, iron fixtures and fastenings and finishing the wood work with oiling etc. complete.	Sqm.	6030.80	2964.80
166	Item No.166 :- Providing and fixing non teak doors ledged and braced with 20 mm. thick planked shutters including the frame without sill with all fixture and fastenings oiling varnishing etc. complete.	Sqm.	5875.50	1801.50
167	Item No.167 :- Providing and fixing Jungle wood door of frame 60 mm X 100 mm for second class door's and window with / without ventilators fan light and clear storey windows including chamfering / rounding. rebating and hold fast finishing with one coat of primer etc complete.	Sqm.	2258.80	322.80
168	Item No.168 :- Providing & fixing Country Teak Wood frame with G. I. Sheet Shutter.	Sqm.	2042.30	646.30
169	Item No.169 :- Providing and fixing country teak wood plank ceiling 12 mm. Thick with planked on underside, longuled and grooved including scaffolding, fixtures with oiling and two coats of varnishing etc. complete. (excluding battens and joists)	Sqm.	1462.50	400.50

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
170	Item No.170 :- Providing and fixing non teak wood plank ceiling 12 mm. Thick with planked on underside, longuled and grooved including scaffolding , fixtures with oiling and two coats of varnishing etc. complete. (excluding battens and joists)	Sqm.	961.50	400.50
171	Item No.171 :- Providing and fixing wooden self of country teak wood plank 30 cm. wide and 20 mm. thick with wooden brackets of 50mm. x 50mm without fillets including all fixtures with oiling and painting etc. complete.	Sqm.	663.40	160.40
172	Item No.172 :- Providing and fixing eaves board of country teak wood plank 20 cm. x 20mm thick plan decorative type including scaffolding & painting with 2 coats etc. complete.	Sqm.	350.10	35.10
173	Item No.173 :- Providing and fixing shutter to wall cupboard made 12 mm thick teak wood / particle board one face with approved colour laminated face borided with phenol formal desynthetic lipping, beading oxidised iron fixtures & oil primer coat etc. complete.	Sqm.	2485.10	988.10
174	Item No.174 :- Providing & fixing xpm Jalli with teak wood /non teak wood frame including fixing oiling etc. complete. (A) Non teak wooden frame into wooden bar jalli (B) N.T. Wooden frame & M.S. Bar (C) Country teak wooden frame with M.S. bar (D) xpm Jalli with wooden frame (E) Providing and fixing xpm jalli with non teak wood frame including fixing oiling etc. complete.	Sqm. Sqm. Sqm. Sqm. Sqm.	1552.50 914.30 1263.10 1214.20 865.30	559.53 320.30 320.10 320.20 320.30
175	Item No.175 :- Providing and fixing half round single country tiled roofing over bamboo battens including nails, battens etc. complete.	Sqm.	626.20	277.20

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
176	Item No.176 :- Providing and fixing medium grade G I pipe below C G I sheet roofing etc complete.	Rmt.	274.50	24.46
177	Item No.177 :- Providing and fixing M S angle of size 35 x 35 x 6 mm.	Rmt.	148.00	25.01
178	Item No.178 :- Providing and fixing half round single country tiled roofing over bamboo mats laid on half split bamboo battens including all fastenings etc. complete.	Sqm.	694.60	258.60

GOM SOIL & WCD CSR 2017-18

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-8

GATE MANUFACTURING AND REPAIRS



ITEM NO 179 TO 186

GOM SOIL & WCD CSR 2017-18

सामाईक दरसुची २०१७-१८
द्वार निर्मिती आणि दुरुस्ती
सर्वसाधारण टिप्पणी

- 1 All materials / bought out components for embedded parts, gates, hoists and allied works shall conform to relevant Indian standards as provided in Annexure-I.
- 2 The basic rates are INCLUSIVE of preparation of Q.A.P. / working drawings material schedules etc., as per specifications and other technical data including revisions. If the responsibility of the structural designs is on the contractor, additional 1% amount shall be payable.
- 3 The basic rates are inclusive of 3 % provision towards cost of packing, forwarding and transportation of all materials from their source of supply up to work site. No separate lead charges and loading unloading shall be added.
- 4 The basic rates are inclusive of Machinery mobilization (1.5%) & Demobilization (1.5%) Charges on machinery charges.
- 5 The basic rates are inclusive of 1% labour amenities and 10% overhead charges.
- 6 For charges of transportation of Gate parts at Site Refer Lead Charges Statement of Material.
- 7 Fabrication charges include all welding charges including tack welding and full welding.
- 8 The basic rates are inclusive of preparatory works such as rectification of damages, repairing shop, painting, cleaning, positioning and anchoring first stage embedments.
- 9 The basic rates are inclusive of painting with one coat of zinc primer and 2 coats of solvent less coal tar epoxy paint with sand blasting.
- 10 HOIST EQUIPMENT - 1. Where sand blasting is not possible, hand and power tool/ chemical cleaning be adopted without any additional cost.
- 11 The weight of the Mechanical component in CSR are as per Standard drawings and as per sectional weights provided in relevant IS standards of respective materials. Actual weight of the components should be verified as per actual material received and accordingly the amount should be worked out.
- 12 Provision for GST is not included in the rate analysis and appropriate provision shall be made in the estimate, if applicable.

Annexure 1		
List of IS codes		
1	IS 4622	Recommendations for Structural design of fixed wheel gates
2	IS 2062	Hot rolled low, medium, high tensile Structural steel
3	IS 4623	Recommendations for Structural design of radial gates (Second Revision)
4	IS1030	Carbon steel castings for general engineering purposes.
5	IS28	Phosphor bronze ingots and castings
6	IS305	Specification for Aluminum Bronze ingots and casting
7	IS 318	Specification for leaded tin bronze ingots and casting
8	IS 6911	stainless steel plate , sheet and strip
9	IS 209	Zinc Ingot specification
10	IS 11855	Guidelines for Design and use of Different type of Rubber seals for hydraulic gates.
11	IS 14177	Guidelines for painting system for hydraulic gates and hoists.
12	IS 2485	Drop forged sockets for wire ropes for general engineering purposes
13	IS 325 -1996	Three phase induction motor specification
14	IS 2266-2000	Specification of wire ropes.
15	IS7443	Methods for load Rating of Warm Gears
16	IS 10210-1982	Design of hydraulic hoist for gates.
17	IS 7718-1991	Recommendations for inspection, testing and maintenance of fixed wheel and slide gates (first revision).
18	IS 9349	Recommendation for structural design of medium and high head slide gates
19	IS 210	Geay iron castings
20	IS 6938	Design for rope drum and chain hoist for hydraulic gates
21	IS 1030	Carbon steel and castings
22	IS 7215	Tolerances for fabrication of steel structures.

**GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
GATE MANUFACTURING AND REPAIRS**

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
179	<p>OUTLET GATE-SLIDING TYPE EMBEDMENT – Manufact., Erection, Commissioning & Testing</p> <p>Item No.179 :- Manufacturing with QAP, fabrication, erection, commissioning & testing of Sliding type gate Embedments consisting of following parts. Sill Beam, Track Girder, Vertical Seal & Horizontal Seal assly. Guide Tee & Lining Plate. Anchorages etc. All material used shall conformed to related IS Codes. All material used shall conformed to related IS Codes specified in IS 9349. Mild steel confirming to IS 2062.The tolerances for embeded parts and in components of gate are as per IS 9349. The tolerances between Bushing/Bearing /Pin Should confirm to IS 919 (Part I & II). Other Material includes C.S. (IS1030), Brass (IS 28), P. Bronze (IS 305), Al. Bronze (IS 318), S.S. (IS 6911), Rubber seal (IS 11855), Welding electrodes (AWS E6013 for general weld joints & E7018 for X ray quality weld joints). It includes all materials, Labour charges, machining and machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting, Painting with one coat of Zinc rich primer on dry film to give total dry film thickness 70 +/- 5 microns and 2 coats of sloventless coal tar epoxy paint applied to give minimum dry film thickness of 150+/- 5 micron per coat as per IS 14177 .The embedment & gate assembly shall be reasonably water tight, the maximum permissible leakage being not more than 5 liters/min/m wetted length of seal. The surface finish of seal plates should be within the range of 1.6 to 6.3 µm (IS 9349).</p>	MT	131913.00	21804.00
180	<p>OUTLET GATE-SLIDING TYPE GATE LEAF – Manufact., Erection, Commissioning & Testing</p> <p>Item No.180 :- Manufacturing with QAP, fabrication, erection, commissioning & testing of Gate leaf of Sliding type gate Consisting of following parts. Skin plate skeleton, End Verticals, Guide Brackets, vertical and horizontal stiffeners etc. (As per Drg.) All material used shall conformed to related IS Codes specified in IS 9349. Mild steel confirming to IS 2062.The tolerances for embeded parts and in (Item contd. on next page)</p>	MT	110524.00	20893.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	<p>components of gate are as per IS 9349. The tolerances between Bushing/Bearing /Pin Should confirm to IS 919 (Part I & II). Other Material includes C.S. (IS1030), Brass (IS 28), P. Bronze (IS 305), Al. Bronze (IS 318), S.S. (IS 6911), Rubber seal (IS 11855), Welding electrodes (AWS E6013 for general weld joints & E7018 for X ray quality weld joints). It includes all materials, Labour charges, machining and machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting, Painting with one coat of Zinc rich primer on dry film to give total dry film thickness 70 +/- 5 microns and 2 coats of sloventless coal tar epoxy paint applied to give minimum dry film thickness of 150+/- 5 micron per coat as per IS 14177 .The gates shall be reasonably watertight. Leakage, if any, unless otherwise specified, shall not normally exceed 5 and 10 liter/min/m wetted length of periphery of the sealing surface, for medium and high head gates, respectively as per IS 9349.</p>			
181	<p>OUTLET GATE ROLLER TYPE WITH BUSH IN ROLLER - GATE LEAF - Manufacturing, Erection, Commissioning & Testing</p> <p>Item No.181 :- Manufacturing with QAP, fabrication, erection, commissioning & testing of parts of Roller type gate leaf with bush in the roller consisting of following parts. Skin plate skeleton, End verticals, Guide bracket etc. (As per Drg.) All material used shall conformed to related IS Codes specified in IS 4622. Mild steel conforming to IS 2062.The tolerances for embeded parts of gate are as per IS 4622. Other Material includes C.S. (IS1030), Brass (IS 28), P. Bronze (IS 305), Al. Bronze (IS 318),S.S. (IS 6911), Rubber seal (IS 11855), Welding electrodes (AWS E6013 for general weld joints & E7018 for X ray quality weld joints). The tolerances between Components & assembly Shall confirm to IS 4623.the fits and tolerances between the bronze bushing & hub shall be H7r6 (Interference fit) & with pin shall be H7f7 (Clearance fit) and for antifricition bearings with hub shall be H7 (Interference) & antifricition bearing with pin shall be r6 (Interference) as per IS 4623.The above items also include Sundry Material, Workshop charges, Labour charges,</p>	MT	118454.00	24315.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
	<p>Inspection & Quality control charges, Sand blasting with one coat of Zinc rich primer on dry film, should be applied to give total dry film thickness 70 +/- 5 microns. Also 2 coats of solvent less coal tar epoxy paint should be given with a minimum dry film thickness of 150+/- 5 micron per coat should be applied as per IS 14177. The gates shall be reasonably watertight. Leakage, if any, unless otherwise specified, shall not normally exceed 5 and 10 liter/min/m wetted length of periphery of the sealing surface, for medium and high head gates, respectively as per IS 9349.</p>			
182	<p>OUTLET GATE ROLLER TYPE WITH BEARING IN ROLLER GATE LEAF - Manufacturing, Erection, Commissioning & Testing</p> <p>Item No.182 :- Manufacturing with QAP, fabrication, erection, commissioning & testing of Gate leaf of Roller type gate with Bearing in the roller consisting of following parts. Skin plate skeleton, End verticals, roller bearings, Guide bracket etc.(As per Drg.) All material used shall conformed to related IS Codes specified in IS 4622. Mild steel conforming to IS 2062. The tolerances for components of gate are as per IS 4622. The tolerances between Components & assembly shall conform to IS 4623. The fits and tolerances between the bronze bushing & hub shall be H7r6 (Interference fit) & with pin shall be H7f7 (Clearance fit) and for antifriction bearings with hub shall be H7 (Interference) & antifriction bearing with pin shall be r6 (Interference) as per IS 4623. Other Material includes C.S. (IS1030), Brass (IS 28), P. Bronze (IS 305), Al. Bronze (IS 318), S.S. (IS 6911), Rubber seal (IS 11855), Welding electrodes (AWS E6013 for general weld joints & E7018 for X ray quality weld joints). The above items also include Sundry Material, Workshop charges, Labour charges, Inspection & Quality control charges, Sand blasting with one coat of Zinc rich primer on dry film, should be applied to give total dry film thickness 70 +/- 5 microns. Also 2 coats of solvent less coal tar epoxy paint should be given with a minimum dry film thickness of 150+/- 5 micron per coat should be applied as per IS 14177. The gates shall be reasonably watertight. Leakage, if any, unless otherwise specified, shall not normally exceed 5 and 10 liter/min/m wetted length of periphery of the sealing surface, for medium and high head gates, respectively as per IS 9349.</p>	MT	150595.00	25256.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
183	<p>SCREW STEM HOIST - Manufacturing, Erection, Commissioning & Testing</p> <p>Item No.183 :- Manufacturing with QAP, fabrication, erection, commissioning & testing with 125 % of rated capacity of Screw stem hoist consisting of Screw stem, Nut, Gear Pinion, Worm wheel, Shaft, Keys etc. All material used shall conformed to IS Codes specified in IS 11228.Mild steel confirming to IS 2062. Other Material includes C.S. (IS1030), P. Bronze (IS 305), Welding electrodes (AWS E6013 for general weld joints & E7018 for X ray quality weld joints).The tolerances between Components & assembly Shall confirm to IS 4623.the fits and tolerances between the bronze bushing & hub shall be H7r6 (Interference fit) & with pin shall be H7f7 (Clearance fit) and for antifriction bearings with hub shall be H7 (Interference) & antifriction bearing with pin shall be r6 (Interference) as per IS 4623. It includes all materials, Labour charges, machining and machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting, Painting with one coat of Zinc rich primer on dry film to give total dry film thickness 70 +/- 5 microns and 2 coats of sloventless coal tar epoxy paint applied to give minimum dry film thickness of 150+/- 5 micron per coat as per IS 14177.</p>	MT	95336.00	14159.00
184	<p>Straight Needle K.T. Weir Gate- Manufacturing</p> <p>Item No.184 :- Manufacturing with QAP & fabrication of KT weir needle gates - straight type size 2.15 x 0.5M- 94 Kg. weight as per relevant Indian Standards with all material, Mild steel confirming to IS 2062, Rubber seal confirming to IS 4623 & Welding electrodes AWS E6013 for general weld joints. It includes all materials, Labour charges, machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting, Painting with one coat of Zinc rich primer on dry film to give total dry film thickness 70 +/- 5 microns and 2 coats of sloventless coal tar epoxy paint applied to give minimum dry film thickness of 150+/- 5 micron per coat as per IS 14177.</p>	MT	73937.00	6855.00

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
185	<p>Curved Needle K.T. Weir Gate- Manufacturing</p> <p>Item No.185 :- Manufacturing with QAP & fabrication of KT weir needle gates - curved type size 2.15 x 0.5M- 74 Kg. weight as per relevant Indian Standards with all material, Mild steel confirming to IS 2062, Rubber seal confirming to IS 4623 & Welding electrodes AWS E6013 for general weld joints. It includes all materials, Labour charges, machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting, Painting with one coat of Zinc rich primer on dry film to give total dry film thickness 70 +/- 5 microns and 2 coats of solventless coal tar epoxy paint applied to give minimum dry film thickness of 150+/- 5 micron per coat as per IS 14177.</p>	MT	86812.00	8513.00
186	<p>Dismantling and fitting of Rubber Seal of Radial Gate 12 x 8 m - 1 No -</p> <p>Item No.186 (A) :- Dismantling of old damaged side rubber seal from gate leaf of R.G. 12 x 8 m - 1 No. supplying & fitting new L type side rubber seal confirming to IS 11855-1986 (Updated) and G.I. bolt with double washer including cost of material, labour, machining, sundry material etc complete.</p>	ITEM	72813.00	21501.00
	<p>Item No.186 (B) :- Dismantling of old damaged Bottom rubber seal from gate leaf of R.G. 12 x 8 m - 1 No. Supplying & fitting flat type bottom rubber seal confirming to IS 11855-1986 (Updated) of size 90x15 mm - 12.2 mtr and G.I. bolt M-20x80 - 97 Nos with double washer including cost of material, labour, machining, sundry material etc complete.</p>	ITEM	37533.00	12357.00

GOM SOIL & WCD CSR 2017-18

**GOVERNMENT OF MAHARASHTRA
SOIL & WATER CONSERVATION DEPARTMENT
COMMON SCHEDULE OF RATES FOR 2017-18**

SECTION-9

LAND RECLAMATION WORK AND SOIL SURVEY



ITEM NO 187 TO 198

GOM SOIL & WCD CSR 2017-18

GOVERNMENT OF MAHARASHTRA
COMMON SCHEDULE OF RATES FOR 2017-18
LAND RECLAMATION WORK AND SOIL SURVEY

Sr. No.	Item	Unit	Rate for 2017-18 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
187	Item No.187 :- Collecting and filling soil samples in plastic bag of size (15X23cm) 200 gauge and cloth bag of size (18X25 cm) with inside flap of 4 X 5 cm for address tag and packing properly including cost of bags etc. complete.	Per augur hole	70.20	48.10
188	Item No.188 :- Taking well observations in the command area including collecting data of well water level, taking photos of wells for GPS Based Monitoring, with Software developing, Maintenance of Web & Producing reports, Synchronisation of reloads through Internet. & Water samples, visual observation of crops and preparing data base recording in well observation book etc. complete	No.	71.20	71.20
189	Item No.189 :- Taking augur bores of 10 cm dia. with augur for classifying strata including putting the excavated stuff in cyclic order, dewatering for recuperation results etc. complete. (Augur karkoon Not engaged departmentally)	Rmt.	435.35	435.35
190	Item No.190 :- Taking augur bores of 10 cm dia. with augur for classifying strata including putting the excavated stuff in cyclic order, dewatering for recuperation results etc. complete. (Augur karkoon engaged departmentally)	Rmt.	342.05	342.05
191	Item No.191 :- Measuring drain discharge in every season including transporting and installing temporarily available measuring device such as "V "notch on site with all labour & material etc. complete .recording in well observation book etc. Complete	No.	264.60	264.60
192	Item No.192 :- Collecting & filling water samples in plastic bottles including cost of plastic of plastic bottles etc. complete.	No.	2.80	0.00

Sr. No.	Item	Unit	Rate for 2016-17 (Rate in Rs.)	
			Completed Item	Labour
1	2	3	4	5
193	Item No.193 :- Testing of soil sample obtained auger as per depth, doing weight of 100gm of soil sample mix distilled water with 1:2 hence 200ml for 5 minutes, Testing Ec & pH of each sample filling result in prescribe forms cleaning of equipments, measuring cylinder etc. complete.	No.	29.15	25.80
194	Item No.194 :- Labour charges for removing grass, thorny shrubs, Jungli shrub, Kubabul and alike grass along and in the drain / canal making the ground clean by showel and phavaras etc. complete.	Sqm.	10.10	10.10
195	Item No.195 :- Taking open pits, one open pit per sq.km., including refilling of open pit after taking down all necessary morphological observations. Size of pit - Length 2.5 m. x Width 1.20 m and Depth of open pit up to 2.50 m. or up to hard strata, if met first.	No.	543.00	543.00
196	Item No.196 :- Carrying out infiltration tests at the location of open pits in the command area.	No.	264.60	264.60
197	Item No.197 :- Carrying out phase level mapping for confirmation of morphological properties of soil and their interconnection in field for various phases such as texture, erosion, slope, salinity, rockiness, stoniness etc.	Sqkm.	699.80	699.80
198	Item No.198 :- Carrying out drying, pounding, sieving of soil samples in laboratory including washing the sets of soil samples after every test and discarding of tested soil samples at the laboratory.	No.	12.70	12.70

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