

Zilla Parishad, Sangli

Panchayat Samiti, Miraj

FORM NO-52

MEASUREMENT BOOK

MB NO : 147114000010

somrj , Junior Engineer (B & C)

YEAR : 2023-2024

**Name of Work : S.T.B.T. To Internal Road at Samdoli, Taluka
Miraj, District Sangli. (Nagari Suvidha 2019-20)**

Zilla Parishad, Sangli

MB NO: 147114000010

Panchayat Samiti, Miraj

MEASUREMENT BOOK

Bill No : 2nd & Final Bill

Name of Work: S.T.B.T. To Internal Road at Samdoli, Taluka Miraj, District Sangli.
(Nagari Suvidha 2019-20)

Agency: abc

Authority: B-1/HO/2515/2623 Date:
20/10/2023


WorkOrder No: ZPSGL/WO/2515/33532

WorkOrder Date: 20-10-2023

Actual Date of Completion: 10-01-2024

Date of Measurement: 02-01-2024

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Record Entry No :1			Date :01-01-2024				
Item No: 1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50 metre and spreading for embankment or stacking as directed. By Mechanical Means.						
1	C7,C18,C19,C21,C22,C25,C26,C27 ,C28,C29,C30,C31	12.0	1.650	1.800	1.500	53.460	Cubic Metre
2	C4,C5.C6,C10,C11,C12,C13,C20	8.0	1.950	2.250	1.500	52.650	Cubic Metre
3	C1,C8,C14,C16,C23 (Not for payment)	5.0	2.250	2.700	1.500	45.563	Cubic Metre
Total:						106.110	Cubic Metre
Quantity as per previous bill:						25.730	Cubic Metre
Total Uptodate Quantity:						131.840	Cubic Metre
Item No: 2	Supplying trap metal of required size by bringing the boulders / rubble at the road side breaking them to required gradation including conveying the boulders / rubble and stacking the broken metal, excetra complete. (Prior approval of sample stack of broken metal by the Executive Engineer is necessary. The date of approval will form part of the measurements) - 60 milimetre metal, by breaking boulders. (Hand broken).						
3	C1,C8,C14,C16,C23	5.0	2.250	2.700	0.600	18.225	Cubic Metre

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
4	C9,C15,C17,C24	4.0	2.350	2.800	0.600	15.792	Cubic Metre
5	C2,C3	2.0	2.650	3.050	0.600	9.699	Cubic Metre
6	C33,C34,C35,C36,C37,C38,C39	7.0	1.300	1.300	0.600	7.098	Cubic Metre
7	For Front passage	1.0	21.470	2.100	0.300	13.526	Cubic Metre
4	C9,C15,C17,C24 (Not for payment)	4.0	2.250	2.800	0.450	11.340	Cubic Metre
5	C2,C3	2.0	2.650	3.050	0.450	7.274	Cubic Metre
6	C33,C34,C35,C36,C37,C38,C39	7.0	1.300	1.300	0.450	5.324	Cubic Metre
Total:						76.940	Cubic Metre
Quantity as per previous bill:						167.540	Cubic Metre
Total Uptodate Quantity:						244.480	Cubic Metre
Item No: 4	Spreading 60 mm metal for road work including sectionong, excetra complete as directed by Engineer in charge.						
4	C9,C15,C17,C24	4.0	2.350	2.800	0.150	3.948	Cubic Metre
5	C2,C3	2.0	2.650	3.050	0.150	2.425	Cubic Metre
Total:						6.370	Cubic Metre
Quantity as per previous bill:						167.540	Cubic Metre
Total Uptodate Quantity:						173.910	Cubic Metre
Measured and recorded by me at the site of work							
 somraj Junior Engineer (B & C) Panchayat Samiti, Miraj							
Bill: 2nd & Final Bill				Date of measurement: 02-01-2024			

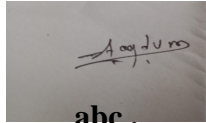
Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Item No: 1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50 metre and spreading for embankment or stacking as directed. By Mechanical Means.						
4	C9,C15,C17,C24	4.0	2.350	2.800	1.500	39.480	Cubic Metre
5	C2,C3	2.0	2.650	3.050	1.500	24.248	Cubic Metre
6	C33,C34,C35,C36,C37,C38,C39 (Not for payment)	7.0	1.300	1.300	1.500	17.745	Cubic Metre
7	For front passage (Not for payment)	1.0	21.470	2.100	0.300	13.526	Cubic Metre
8	Ramp for PWD person	1.0	1.800	1.200	0.300	0.648	Cubic Metre
Total:						64.380	Cubic Metre
Quantity as per this MB Record Entry No:1, Item No:1						131.840	Cubic Metre
Total Uptodate Quantity						196.220	Cubic Metre
Item No: 2	Supplying trap metal of required size by bringing the boulders / rubble at the road side breaking them to required gradation including conveying the boulders / rubble and stacking the broken metal, excetra complete. (Prior approval of sample stack of broken metal by the Executive Engineer is necessary. The date of approval will form part of the measurements) - 60 milimetre metal, by breaking boulders. (Hand broken).						
1	C7,C18,C19,C21,C22,C25,C26,C27,C28,C29,C30,C31	12.0	1.650	1.800	0.600	21.384	Cubic Metre
2	C4,C5.C6,C10,C11,C12,C13,C20 (Not for payment)	8.0	1.950	2.250	0.600	21.060	Cubic Metre
8	Ramp for PWD person	1.0	1.800	1.200	0.300	0.648	Cubic Metre
2	C4,C5.C6,C10,C11,C12,C13,C20	8.0	1.950	2.250	0.450	15.795	Cubic Metre
3	C1,C8,C14,C16,C23	5.0	2.250	2.700	0.450	13.669	Cubic Metre
Total:						51.500	Cubic Metre
Quantity as per this MB Record Entry No:1, Item No:2						244.480	Cubic Metre

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Total Uptodate Quantity						295.980	Cubic Metre
Item No: 3	Supplying hard murum / kankar at the road site, including conveying and stacking, excetra complete.						
1	C7,C18,C19,C21,C22,C25,C26,C27 ,C28,C29,C30,C31 (Not for payment)	12.0	1.650	1.800	0.450	16.038	Cubic Metre
8	Ramp for PWD person	1.0	1.800	1.200	0.300	0.648	Cubic Metre
Total:						0.650	Cubic Metre
Quantity as per previous bill:						55.840	Cubic Metre
Total Uptodate Quantity:						56.490	Cubic Metre
Item No: 4	Spreading 60 mm metal for road work including sectionong, excetra complete as directed by Engineer in charge.						
1	C7,C18,C19,C21,C22,C25,C26,C27 ,C28,C29,C30,C31	12.0	1.650	1.800	0.150	5.346	Cubic Metre
2	C4,C5.C6,C10,C11,C12,C13,C20 (Not for payment)	8.0	1.950	2.250	0.150	5.265	Cubic Metre
3	C1,C8,C14,C16,C23	5.0	2.250	2.700	0.150	4.556	Cubic Metre
Total:						9.900	Cubic Metre
Quantity as per this MB Record Entry No:1, Item No:4						173.910	Cubic Metre
Total Uptodate Quantity						183.810	Cubic Metre
Item No: 5	Spreading hard murum / soft murrum / gravel or kankar for side width, excetra complete.						
1	C7,C18,C19,C21,C22,C25,C26,C27 ,C28,C29,C30,C31	12.0	1.650	1.800	0.100	3.564	Cubic Metre
2	C4,C5.C6,C10,C11,C12,C13,C20	8.0	1.950	2.250	0.100	3.510	Cubic Metre
3	C1,C8,C14,C16,C23	5.0	2.250	2.700	0.100	3.038	Cubic Metre
4	C9,C15,C17,C24	4.0	2.350	2.800	0.100	2.632	Cubic Metre

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
16	Below Flooring General Admin	1.0	8.350	5.410	0.075	3.388	Cubic Metre
17	Below Flooring Account	1.0	5.880	4.040	0.075	1.782	Cubic Metre
18	Below Flooring Shops	5.0	3.050	6.000	0.075	6.863	Cubic Metre
19	C33,C34,C35,C36,C37,C38,C39	7.0	1.300	1.300	0.100	1.183	Cubic Metre
Total:						25.960	Cubic Metre
Quantity as per previous bill:						55.840	Cubic Metre
Total Uptodate Quantity:						81.800	Cubic Metre
Item No: 6	Compacting the sub grade/gravel/oversize metal (200 milimetre loose) layers for all width with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.						
Total Uptodate Quantity						837.680	Square Metre
Item No: 7	Supplying trap metal of required size by bringing the boulders / rubble at the road side breaking them to required gradation including conveying the boulders / rubble and stacking the broken metal, excetra complete. (Prior approval of sample stack of broken metal by the Executive Engineer is necessary. The date of approval will form part of the measurements) - 40 milimetre metal, by breaking boulders. (Hand broken).						
Total Uptodate Quantity						83.770	Cubic Metre
Item No: 8	Spreading 80 milimetre / 40 milimetre metal for road work including sectionong, excetra complete as directed by Engineer in charge.						
Total Uptodate Quantity						83.770	Cubic Metre
Item No: 9	Supplying soft murum at the road site, including conveying and stacking, excetra complete.						
Total Uptodate Quantity						20.940	Cubic Metre
Item No: 10	Spreading hard murum / soft murrum / gravel or kankar for side width, excetra complete.						
Total Uptodate Quantity						20.940	Cubic Metre

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Item No: 11	Compacting the sub grade / gravel / size metal (100 milimetre loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.						
Total Uptodate Quantity						837.680	Square Metre
Item No: 12	Providing and constructing 75 milimetre thick modified penetration macadam road surface including all materials, preparing the existing road surface, spreading 40 milimetre stone metal layers 30 percent crusher broken metal plus 70 percent hand broken (by breaking rubble obtained by blasting), heating and spraying the bitumen of of specified grade at the rate of 2 kilogram per square metre, spreading 12 milimetre size chips, compacting with three wheel static roller having weight 8 to 10 metric tonnes to achive the desired degree of compaction as per technical specification Clause 506, excetra complete. Including picking of existing water bound macadam surface. (Using VG-30 bulk bitumen)						
Total Uptodate Quantity						837.680	Square Metre
Item No: 13	Providing 20 milimetre thick premix bituminous carpet including supplying all materials, preparing and cleaning the base, heating bitumen, including applying tack coat at the rate of 3 kilogram per 10 square metre and providing Type-A seal coat at the rate of 0.98 kilogram per square metre, mixing hot bitumen and chips, laying the carpet layer and compacting, etc. complete. By bulk asphalt.. (Basic Carpet Rate approved by S.E. P.W. Circle, Ratnagiri Vide Letter No 3477 dated 14/10/2020)						
Total Uptodate Quantity						837.680	Square Metre
Item No: 14	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering, excetra complete.						
Total Uptodate Quantity						19.440	Square Metre
Item No: 15	Providing and laying concrete pipes of Indian Standard Non Pressure class of 300 milimetre diameter in proper line, level and slope including necessary collers, excavation, laying, fixing with collers in cement mortar 1:1 and refilling the trench excetra complete.						
Total Uptodate Quantity						5.000	Running Metre
Item No: 16	Providing rubble filling of trap stones for foundations including filling voids with grit and compaction, excetra complete.						
Total Uptodate Quantity						20.000	Cubic Metre
Item No: 17	Providing selected hard murum filling including laying in layers of 15 centimetre to 20 centimetre, watering and compacting, excetra compelte.						
Total Uptodate Quantity						98.990	Cubic Metre

Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Item No: 18	Providing rubble stone paving 15 centimetre thick in 1:3 cement mortar over a bedding of 15 centimetre thick cement concrete of 1:4:8 proportion with trap /granite /quartzite /gneiss metal including striking joints and watering, excetra complete. (using NATURAL SAND).						
Total Uptodate Quantity						74.240	Square Metre
Item No: 19	Providing cast in situ / ready mix block of M-10 cement concrete with circular or other shaped opening for waterway including necessary formwork, compaction, finishing and curing excetra complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with Supervisory Control and Data Aquisition with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc), cement 4.05 bags/cumt) (using NATURAL SAND).						
Total Uptodate Quantity						9.990	Cubic Metre
Item No: 20	Supplying and laying laterite stones upto 20 kilogram for Filter / Core layer including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by, excetra complete in tidal conditions.						
Total Uptodate Quantity						50.290	Cubic Metre
Item No: 21	Royalty charges for various building construction bonafied materials which are used for government bonafied works and for which Royalty charges are to be paid by the contractor. (This Item is to be paid to the contractor only after he pays the Royalty amount to Revenue department and produces the required voucher.)						
Total Uptodate Quantity						539.620	Cubic Metre
Item No: 22	Royalty charges for laterite stone / metal which is used for government bonafied works and for which Royalty charges are to be paid by the contractor. (This Item is to be paid to the contractor only after he pays the Royalty amount to Revenue department and produces the required voucher.)						
Total Uptodate Quantity						50.290	Cubic Metre
Item No: 23	Surcharge on Royalty charges at the rate of two percent of Royalty charges for various building construction bonafied materials which are used for government bonafied works and for which Royalty charges are to be paid by the contractor. (This Item is to be paid to the contractor only after he pays this Surcharge amount to Revenue department and produces the required voucher.)						
Total Uptodate Quantity						539.620	Cubic Metre
Item No: 24	Surcharge on Royalty charges at the rate of two percent of Royalty charges for laterite stone / metal which is used for government bonafied works and for which Royalty charges are to be paid by the contractor. (This Item is to be paid to the contractor only after he pays this Surcharge amount to Revenue department and produces the required voucher.)						


Sr NO	Particulars	Number	Length	Breadth	Height	Quantity	Unit
Total Uptodate Quantity						50.290	Cubic Metre
Item No: 25	Contribution towards District Mineral Foundation at the rate of 10 percent of prevailing rate of Royalty for various building construction bonafied materials which are used for government bonafied works and for which Royalty is to be paid by the contractor. (This Item is to be paid to the contractor only after he pays this contribution amount to Revenue department and produces the required voucher.)						
Total Uptodate Quantity						11.340	Cubic Metre
I have Checked all the measurements and I accept the measurements							
 abc,							

Abstract

Tender Item No	Upto Date Quantity	Unit	Description of Item	Bill/Tender Rate	Total Upto Date Amount	Now to be Paid Amount	Record Entry No
1	196.220	Cubic Metre	Excavation for roadway in earth, soil or SM.	93.35	18317.14	15915.24	Bill
2	295.970	Cubic Metre	Supplying 60 mm trap metal, by breaking boulders. (Hand broken).	1096.35	324486.71	140804.23	Bill
3	56.490	Cubic Metre	Supplying HM	542.00	30617.58	352.30	Bill
4	183.820	Cubic Metre	Spreading 60 mm metal for road work.	93.35	17159.60	1519.74	Bill
5	81.800	Cubic Metre	Spreading HM /SM / gravel or kankar for side width complete.	79.05	6466.29	2052.14	Bill
6	837.680	Square Metre	Compacting sub grade/gravel/oversize metal (200 mm loose) layers for all width with Power roller having weight 8 to 10 MT. including necessary, labour, materials & artificial watering complete.	29.65	24837.21	0.00	Not Executed

Tender Item No	Upto Date Quantity	Unit	Description of Item	Bill/Tender Rate	Total Upto Date Amount	Now to be Paid Amount	Record Entry No
7	83.770	Cubic Metre	Supplying 40 mm trap metal, by breaking boulders. (Hand broken).	1151.25	96440.21	0.00	Not Executed
8	83.770	Cubic Metre	Spreading 80/40 mm metal for road work.	93.35	7819.93	0.00	Not Executed
9	20.940	Cubic Metre	Supplying SM	538.70	11280.38	0.00	Not Executed
10	20.940	Cubic Metre	Spreading HM /SM / gravel or kankar for side width complete.	79.05	1655.31	0.00	Not Executed
11	837.680	Square Metre	Compacting sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials & artificial watering complete.	27.45	22994.32	0.00	Not Executed
12	837.680	Square Metre	Providing & constructing 75 mm thick M.P.M. road surface. Including picking of existing WBM surface. (Using VG-30 bulk bitumen)	261.85	219346.51	0.00	Not Executed
13	837.680	Square Metre	Providing 20 milimetre thick premix bituminous carpet including applying tack coat & Type-A seal coat.	224.45	188017.28	0.00	Not Executed
14	19.440	Square Metre	Compacting HM side widths layers with vibratory roller.	17.55	341.17	0.00	Not Executed
15	5.000	Running Metre	P/L concrete pipes of I.S.N.P. class of 300 mm dia.	796.55	3982.75	0.00	Not Executed
16	20.000	Cubic Metre	Providing rubble filling of trap stones for foundations with grit.	2114.00	42280.00	0.00	Not Executed

Tender Item No	Upto Date Quantity	Unit	Description of Item	Bill/Tender Rate	Total Upto Date Amount	Now to be Paid Amount	Record Entry No
17	98.990	Cubic Metre	Providing selected HM filling.	766.00	75826.34	0.00	Not Executed
18	74.240	Square Metre	Providing rubble stone paving 15 cm th in 1:3 C.M. over bedding of 15 cm th C.C. 1:4:8. (using NAT. SAND).	2487.15	184646.02	0.00	Not Executed
19	9.990	Cubic Metre	Providing block of M-10 C.C. with circular or other shaped opening for water way. - with drum mixer with SCADA with natural / artificial sand (using NAT. SAND).	8910.35	89014.40	0.00	Not Executed
20	50.290	Cubic Metre	Supplying & laying laterite stones upto 20 kg for Filter / Core layer including conveying with all leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments & machinery as directed by, etc. complete in tidal conditions.	889.75	44745.53	0.00	Not Executed
Total Part A Amount					1410274.68	160643.65	
Tender Above bellow Result : 2.11 Below					-29756.80	-3389.58	
Total(GST Base)					1380517.88	157254.07	
GST Amount 18.00%					248493.22	28305.73	
Total					1629011.10	185559.80	
Tender Item No	Upto Date Quantity	Unit	Description of Item	Bill/Tender Rate	Total Upto Date Amount	Now to be Paid Amount	Remark
21	539.620	Cubic Metre	Royalty charges for various materials.	141.34	76269.89	0.00	Not Executed
22	50.290	Cubic Metre	Royalty charges for laterite.	35.34	1777.25	0.00	Not Executed

Tender Item No	Upto Date Quantity	Unit	Description of Item	Bill/Tender Rate	Total Upto Date Amount	Now to be Paid Amount	Remark
23	539.620	Cubic Metre	Surcharge @ 2% of Royalty charges for various materials.	2.82	1521.73	0.00	Not Executed
24	50.290	Cubic Metre	Surcharge @ 2% of Royalty charges for laterite.	0.70	35.20	0.00	Not Executed
25	11.340	Cubic Metre	Contribution towards D.M.F. @ 10% of rate of Royalty.	14.13	160.23	0.00	Not Executed
Total Part B Amount					79764.30	0.00	
Grand Total(effective Part A + Part B)					1708775.40	185559.80	
Add/Ded for Round Up value					-0.40	0.20	
Final Total					1708775.00	185560.00	
Previously Paid Amount					1523216.00		
Now to be paid Amount					185,559.00	185,560.00	
**Total Deduction					186388.00	107673.00	
Total Recovery							
Cheque Amount						77,887.00	
Measured and abstracted by me  somrj Junior Engineer (B & C) Panchayat Samiti, Miraj							