

# ***MARKET RATES SYSTEM***

**(MRS)**

**1<sup>st</sup> BI-ANNUAL-2017**

**(1<sup>ST</sup> January TO 30<sup>th</sup> June)**

***GOVERNMENT OF THE PUNJAB***

***FINANCE DEPARTMENT***

## TABLE OF CONTENTS

<i>S.No.</i>	<i>Chapter</i>	<i>Page Nos</i>
01.	<i>Carriage</i>	<i>3 to 23</i>
02.	<i>Loading, Unloading &amp; Stacking</i>	<i>24 to 26</i>
03.	<i>Earthwork (Excavation &amp; Embankment)</i>	<i>27 to 33</i>
04.	<i>Dismantling (Demolition)</i>	<i>34 to 38</i>
05.	<i>Mortar.</i>	<i>39 to 40</i>
06.	<i>Concrete</i>	<i>41 to 50</i>
07.	<i>Brickwork</i>	<i>51 to 56</i>
08.	<i>Stone Masonry</i>	<i>57 to 59</i>
09.	<i>Roofing</i>	<i>60 to 65</i>
10.	<i>Flooring.</i>	<i>66 to 70</i>
11.	<i>Surface Rendering</i>	<i>71 to 74</i>
12.	<i>Wood Work</i>	<i>75 to 84</i>
13.	<i>Painting &amp; Varnishing.</i>	<i>85 to 90</i>
14.	<i>Lining of Canals</i>	<i>91 to 92</i>
15.	<i>Sheet Piling</i>	<i>93 to 94</i>
16.	<i>Protection &amp; Diversion Work</i>	<i>95 to 104</i>
17.	<i>Outlets</i>	<i>105 to 106</i>
18.	<i>Road &amp; Road Structure</i>	<i>107 to 111</i>
19.	<i>Plumbing, Sanitary Installation &amp; Gas Fittings</i>	<i>112 to 117</i>
20.	<i>Surface Drainage.</i>	<i>118 to 119</i>
21.	<i>Sewerage</i>	<i>120 to 124</i>
22.	<i>Sinking of Wells</i>	<i>125 to 127</i>
23.	<i>Tubewell &amp; Water Supply</i>	<i>128 to 140</i>
24.	<i>Electric Installation</i>	<i>141 to 153</i>
25.	<i>Iron Work</i>	<i>154 to 160</i>
26.	<i>Miscellaneous</i>	<i>161 to 164</i>

# 1. CARRIAGE

Note: 1 The rates are applicable to carriage of material on pacca roads only.  
For kacha roads an allowance of 25% extra shall be allowed for 2nd and subsequent mileage (Km) rates. Rate upto 1st mile (1st Km) is however common to both kacha and pacca roads.

Note: 2 For hilly areas 25% above the rates in the plain areas shall be allowed for total mileage (Km) covered.

Note: 3 In case of articles longer than 15 ft. (4.6 m) carried in trucks, the following rates shall be allowed:-

i) Above 15 ft. to 25 ft. (4.6 to 7.6 m) :- Total rates to be paid for 15 ft. to 25 ft. (4.6 to 7.6 m) length will be 1.5 times of the rate given in the Composite Schedule of Rates.

ii) Above 25 ft. (7.6 m) :- The total rate to be paid for above 25 ft. (7.6 m) length will be 2 times of the rate given in the Composite Schedule of Rates.

The length measured shall not be the actual length, but the length of the form of consignment as actually received.

Note: 4 The term 'mile' (Km) whenever used is to mean statute mile (Km).

Note: 5 The rates include loading and unloading of material from the conveyance and stacking as directed.

Note: 6 The rates for carriage by boat or steamer shall be the same as by any other mechanical means on land.

## MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite		
1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.				16.1	Add 20% extra for the item "Recouping of Reserve Stock of stone for Flood Protection Work in Irrigation Department".
	1st chain (1st 30 m)	30M	185.35			
	2nd chain (2nd 30 m)	30M	34.10			
	3rd to 10th chain (60 to 300 m)	30M	21.20			
	1000 to 3000 ft. (300 to 900 m)	300 M	208.55			
	1st Km	Km	183.95			
	2nd Km	Km	84.40			
	3rd Km	Km	62.20			
	4th Km	Km	41.40			
	5th Km	Km	37.95			
	6th Km	Km	37.15			
	7th Km	Km	34.00			
	8th Km	Km	33.55			
	9th Km	Km	31.00			
	10th Km	Km	28.40			
	11th Kms to 200Kms	Km	20.55			
	201 Kms to 250 Kms	Km	3.25			
	251 Kms & susequent Kms	Km	2.00			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
2	Carriage of 5 tons of all material like coal, stone lime (unslaked), etc. B.G. Rail fastenings, points and crossing, Bridge Girders, pipes, sheets, Rail, M.S. bars, etc. etc. by truck or any other means owned by the contractor.							16.1	Cement carried in containers other than bags will be paid according to this item. The word "pipes" covers G.I,C.I,R.C.C. and P.C.C.
	1st chain (1st 30 m)				30M	185.35			
	2nd chain (2nd 30 m)				30M	34.10			
	3rd to 10th chain (60 to 300 m)				30M	21.20			
	1000 to 3000 ft. (300 to 900 m)				300M	208.55			
	1st Km				Km	183.95			
	2nd Km				Km	84.40			
	3rd Km				Km	62.20			
	4th Km				Km	41.40			
	5th Km				Km	37.95			
	6th Km				Km	37.15			
	7th Km				Km	34.00			
	8th Km				Km	33.55			
	9th Km				Km	31.00			
	10th Km				Km	28.40			
	11th Kms to 200Kms				Km	20.55			
	201 Kms to 250 Kms				Km	3.25			
	251 Kms & susequent Kms				Km	2.00			
3	Carriage of 100 maunds of fuel wood by truck or any other means owned by the contractor:							16.1	
	1st chain (1st 30 m)				30 M	185.35			
	2nd chain (2nd 30 m)				30 M	34.10			
	3rd to 10th chain (60 to 300 m)				30 M	21.20			
	1000 to 3000 ft. (300 to 900 m)				300 M	208.55			
	1st Km				Km	183.95			
	2nd Km				Km	84.40			
	3rd Km				Km	62.20			
	4th Km				Km	41.40			
	5th Km				Km	37.95			
	6th Km				Km	37.15			
	7th Km				Km	34.00			
	8th Km				Km	33.55			
	9th Km				Km	31.00			

Finance Department

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Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
4	10th Km				Km	28.40		ditto	Reduce the rate by 33% in case of carriage of 1000 Nos. tiles size 12"x6"x1¼" (300 x 150 x 30 mm).
	11th & subsequent Kms				Km	20.55			
	Carriage of 1000 Nos. bricks 10"x5"x3" (250x125x75 mm) or 1000 Nos. tiles 12"x6"x2" (300x150x50 mm) by truck or any other means owned by the contractor :-								
	1st chain (1st 30 m)				30 M	185.35			
	2nd chain (2nd 30 m)				30 M	34.10			
	3rd to 10th chain (60 to 300 m)				30 M	21.20			
	1000 to 3000 ft. (300 to 900 m)				300 M	208.55			
	1st Km				Km	183.95			
	2nd Km				Km	84.40			
	3rd Km				Km	62.20			
	4th Km				Km	41.40			
	5th Km				Km	37.95			
	6th Km				Km	37.15			
	7th Km				Km	34.00			
	8th Km				Km	33.55			
9th Km				Km	31.00				
10th Km				Km	28.40				
11th & subsequent Kms				Km	20.55				
5	Carriage of 100 cft. (2.83 cu.m) of all material like stone, aggregate, spawl, kankar lime(unslaked), surkhi, etc. or 150 cft. (4.25 cu.m) of timber, by means of material trolley.							16.1	Material trolley to be supplied by the Government and maintained and run by the contractor.
	1st chain (1st 30 m)				30 M	185.35			
	2nd chain to 10th chain (2nd 30 m to 300 m)				30 M	34.10			
	1000 to 3000 ft. (300 to 900 m)				300 M	208.55			
	1st Km				Km	150.85			
	2nd Km				Km	111.75			
	3rd Km				Km	56.15			
	4th Km				Km	42.45			
	5th Km				Km	36.80			
	6th Km				Km	35.25			
	7th Km				Km	29.35			
	8th Km				Km	28.95			
	9th Km				Km	26.75			
	10th Km				Km	24.45			
	11th Kms to 200Kms				Km	19.35			
201 Kms to 250 Kms				Km	3.25				
251 Kms & subsequent Kms				Km	2.00				



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Sr. No.	Description	Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite		
6	Carriage of 5 tons of all material like coal, stone lime (unslaked), etc. B.G. Rail fastening, points and crossing, Bridge girders, pipes, sheets, Rail, M.S. bars, etc. etc. by means of material trolley.				16.1	Material trolley to be supplied by the Government and maintained and run by the contractor.
	1st chain (1st 30 m)	30 M	185.35			
	2nd chain (2nd 30 m)	30 M	34.10			
	1000 to 3000 ft. (300 to 900 m)	300 M	208.55			
	1st Km	Km	150.85			
	2nd Km	Km	111.75			
	3rd Km	Km	56.15			
	4th Km	Km	42.45			
	5th Km	Km	36.80			
	6th Km	Km	35.25			
	7th Km	Km	29.35			
	8th Km	Km	28.95			
	9th Km	Km	26.75			
	10th Km	Km	24.45			
7	Carriage of 100 maunds of fuel wood, by means of material trolley.				ditto	Material trolley to be supplied by the Government and maintained and run by the contractor.
	1st chain (1st 30 m)	30 M	185.35			
	2nd chain (2nd 30 m)	30 M	34.10			
	1000 to 3000 ft. (300 to 900 m)	300 M	208.55			
	1st Km	Km	150.85			
	2nd Km	Km	111.75			
	3rd Km	Km	56.15			
	4th Km	Km	42.45			
	5th Km	Km	36.80			
	6th Km	Km	35.25			
	7th Km	Km	29.35			
	8th Km	Km	28.95			
	9th Km	Km	26.75			
	10th Km	Km	24.45			
8	Carriage of 1000 Nos. tiles 12" x6" x2" (300x150x50 mm), by means of material trolley.				ditto	Material trolley to be supplied by the Government and maintained and run by the contractor.
	1st chain (1st 30 m)	30 M	185.35			
	2nd chain (2nd 30 m)	30 M	34.10			
	1000 to 3000 ft. (300 to 900 m)	300 M	208.55			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
9	1st Km				Km	150.85		16.1	
	2nd Km				Km	111.75			
	3rd Km				Km	56.15			
	4th Km				Km	42.45			
	5th Km				Km	36.80			
	6th Km				Km	35.25			
	7th Km				Km	29.35			
	8th.				Km	28.95			
	9th Km				Km	26.75			
	10th Km				Km	24.45			
	11th & subsequent Kms				Km	19.35			
Carriage of 1000 No. bricks, 9"x4½"x3" (225x113x75 mm) or 8"x4"x4" (200x100x100 mm) (nominal)									
1st chain (1st 30 m)				30 M	151.86				
2nd chain (2nd 30 m)				30 M	32.65				
3rd to 10th chain (60 to 300 m)				30 M	17.40				
1000 to 3000 ft. (300 to 900 m)				300 M	170.74				
1st Km				Km	150.80				
2nd Km				Km	69.05				
3rd Km				Km	50.95				
4th Km				Km	34.20				
5th Km				Km	32.05				
6th Km				Km	31.20				
7th Km				Km	27.85				
8th Km				Km	27.45				
9th Km				Km	25.40				
10th Km				Km	23.25				
11th & subsequent Kms				Km	16.75		16.1		
Carriage of 1000 No. tiles 9"x4½"x1½" (225x113x38 mm).									
1st chain (1st 30 m)				30 M	91.65				
2nd chain (2nd 30 m)				30 M	16.84				
3rd to 10th chain (60 to 300 m)				30 M	10.40		16.1		



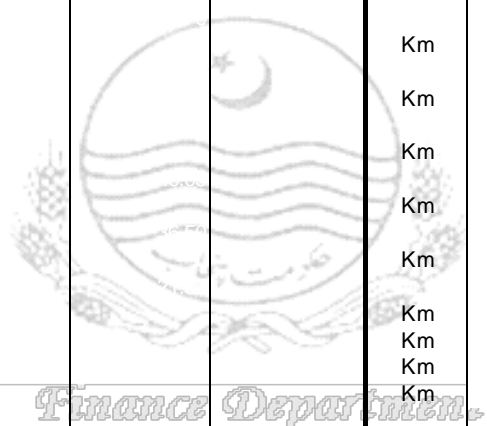
**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
11	1000 to 3000 ft. (300 to 900 m)				300 M	103.15		ditto	
	1st Km				Km	91.00			
	2nd Km				Km	41.80			
	3rd Km				Km	30.80			
	4th Km				Km	20.50			
	5th Km				Km	18.65			
	6th Km				Km	18.25			
	7th Km				Km	16.85			
	8th Km				Km	16.60			
	9th Km				Km	15.35			
	10th Km				Km	14.10			
	11th & subsequent Kms				Km	10.15			
	Carriage of 1 Cwt. (50 Kg) cement in bags.								
	1st chain (1st 30 m)				30 M	3.50			
	2nd chain (2nd 30 m)				30 M	0.42			
	3rd to 10th chain (60 to 300 m)				30 M	0.20			
	1000 to 3000 ft. (300 to 900 m)				300 M	2.05			
	1st Km				Km	2.25			
	2nd Km				Km	1.55			
	3rd Km				Km	0.65			
	4th Km and subsequent kilometers.				Km	0.40			
12	Carriage of 100 Nos. empty cement bags including bundling.						16.1		
	1st 1000 (300 m) ft.				300 M	51.16			
	1000 to 3000 (300 to 900 m) ft.				300 M	6.37			
	1st Km				Km	5.55			
	2nd Km				Km	4.80			
	3rd Km				Km	2.20			
	4th Km & subsequent Kms				Km	1.80			
13	Carriage of 100 (2.83 cu.m) cft. of Sarkanda or pilchi, frash or brushwood, by boat or road :-						ditto	Previous lead of collection not to be deducted from the next	



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
									lead of carriage.
	1st chain (1st 30 m)				30 M	75.83			
	2nd chain (2nd 30 m)				30 M	34.10			
	3rd to 10th chain (60 to 300 m)				30 M	10.40			
	1000 to 3000 ft. (300 to 900 m)				300 M	85.68			
	1st Km				Km	85.00			
	2nd Km				Km	41.80			
	3rd Km				Km	30.80			
	4th Km				Km	20.50			
	5th Km				Km	18.65			
	6th Km				Km	18.25			
	7th Km				Km	16.85			
	8th Km				Km	16.60			
	9th Km				Km	15.35			
	10th Km				Km	14.10			
	11th Km & subsequent				Km	10.15			
14	Carriage of light machinery weighing upto 3 tonne upto 1000 ft. (300 metre)				Tonne				ditto
	Exceeding 1000 to 5000 ft (300 to 1500metre)				300 M	619.90			
					"	150.20			
	1st Km				Km	180.95			
	2nd Km				Km	82.65			
	3rd Km				Km	54.25			
	4th Km				Km	33.55			
	5th Km				Km	31.35			
	6th Km				Km	30.05			
	7th Km				Km	25.65			
	8th Km				Km	25.25			
	9th Km				Km	24.40			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (Metric System)			Spec. No.	Remarks	
		Unit of M/ment	Labour	Composite			
15	10th Km			Km	19.00	16.1 For consignment weighing 5 to 10 maunds, rate be increased by 25%; and for consignments weighing 10 to 20 maunds, rate be increased by 100%.	
	11th Km & susequent			Km	15.40		
	Carriage of small consignments weighing upto 5 maunds (job rates) :						
	Upto 1000 ft. (300 metre)			Consign-ment/ 300 M	50.34		
	Exceeding 1000 to 3000 ft. (300 to 900 metre)				34.52		
	1st Km			Consign-ment/ Km	28.35		
	2nd Km			"	17.30		
	3rd Km & subsequent			"	5.40		
	16	Carriage of consignments job.					
		i) Cooly load for distance:-			Each		
		a) Upto 5 Km			Consignmer		56.10
		b) Above 5 to 13 Km			"		114.05
		ii) Carriage of consignments odd jobs.			Each		
		a) Donkey load for distance upto 500 feet.			Consignmer		10.85
		b) Upto 1000 feet.			"		16.45
c) Upto ½ Mile/ 0.8 Km				"	20.80		
d) Upto one Mile/ 1.6 Km				"	26.00		
e) Upto three Miles/ 4.8 Km				"	45.95		
f) Exceeding 3 Miles/ 16 km				"	82.25		
iii) Cart load for a distance :-				Each			
a) upto 4 Miles/ 6.4 Km				Consign-ment	89.85		
b) Exceeding 4 Miles(6.4 Km) to10 Miles(16 Km)				"	163.55		
iv) Camel load for a distance:-				"			
a) upto 4 Miles/ 6.4 Km.)			"	66.45			
b) exceeding 4 to 12 mills (6.4 Km to 19.2 Km)			"	100.75			
17	Hire charges of:-					1. This item will be allowed with prior concurrence of Superintending Engineer. 2. The rate includes pay of driver	
	i) truck (10 Ton Capacity)			Per day	3000.00		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	ii) tractor with trolly				"	1000.00		and cleaner only. The repairs shall be the responsibility of the owner and the cost of lubrication, fuel, loading and unloading shall be paid by the borrower.	
	iii) tractor without trolly				"	800.00			
18	Carriage of bitumen, tar or other lubricants, in drums: 0 Kilometer to 100 Kilometers 0 Kilometer to 200 Kilometers 0 Kilometer to 250 Kilometers 251 to susequent Kilometers				P.Ton P.Ton P.Ton P.Ton	1255.15 1650.10 1920.10 7.65	16.1		
19	Carriage of Asbestos cement pipes BSS Class 'B' with comet joint and rubber ring, including loading, unloading and stacking (rate per 100 Rft. (30 m pipes):-								
	<b>i) 3" (75 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	7.30			
	2nd chain (2nd 30 m)				30 M	1.35			
	3rd to 10th chain (60 to 300 m)				30 M	0.85			
	1000 to 3000 ft. (300 to 900 m)				300 M	8.25			
	1st Km				Km	7.25			
	2nd Km				Km	3.30			
	3rd Km				Km	2.40			
	4th Km				Km	1.60			
	5th Km				Km	1.50			
	6th Km				Km	1.40			
	7th Km				Km	1.30			
	8th Km				Km	1.25			
	9th Km				Km	1.20			
	10th Km				Km	1.10			
	11th Km & Susequent				Km	1.05			
	<b>ii) 4" (100 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	9.60			
	2nd chain (2nd 30 m)				30 M	1.75			
	3rd to 10th chain (60 to 300 m)				30 M	1.10			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

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					Unit of M/ment	Labour	Composite		
	1000 to 9000 ft. (300 to 900 m)				300 M	10.80			
	1st Km				Km	9.50			
	2nd Km				Km	4.35			
	3rd Km				Km	3.20			
	4th Km				Km	2.10			
	5th Km				Km	1.90			
	6th Km				Km	1.85			
	7th Km				Km	1.70			
	8th Km				Km	1.65			
	9th Km				Km	1.55			
	10th Km				Km	1.45			
	11th Km & subsequent Km				Km	1.35			
iii)	<b>6" (150 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	14.40			
	2nd chain (2nd 30 m)				30 M	2.65			
	3rd to 10th chain (60 to 300 m)				30 M	1.65			
	1000 to 9000 ft. (300 to 900 m)				300 M	16.20			
	1st Km				Km	14.25			
	2nd Km				Km	6.50			
	3rd Km				Km	4.80			
	4th Km				Km	3.20			
	5th Km				Km	2.90			
	6th Km				Km	2.85			
	7th Km				Km	2.65			
	8th Km				Km	2.50			
	9th Km				Km	2.35			
	10th Km				Km	2.15			
	11th Km & subsequent Km				Km	1.80			
iv)	<b>8" (200 mm) i/d pipes:</b>								
	1st chain (1st 30 m)				30 M	24.35			
	2nd chain (2nd 30 m)				30 M	4.50			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	3rd to 10th chain (60 to 300 m)				30 M	2.80			
	1000 to 3000 ft. (300 to 900 m)				300 M	27.35			
	1st Km				Km	24.15			
	2nd Km				Km	11.35			
	3rd Km				Km	8.25			
	4th Km				Km	5.45			
	5th Km				Km	5.05			
	6th Km				Km	4.95			
	7th Km				Km	4.50			
	8th Km				Km	4.30			
	9th Km				Km	3.85			
	10th Km				Km	2.45			
	11th Km & subsequent Km				Km	1.70			
v)	<b>10" (250 mm) i/d pipes:-</b>								
	1st chain (1st 30 m)				30 M	32.7			
	2nd chain (2nd 30 m)				30 M	6.00			
	3rd to 10th chain (60 to 300 m)				30 M	3.75			
	1000 to 3000 ft. (300 to 900 m)				300 M	36.80			
	1st Km				Km	32.45			
	2nd Km				Km	14.75			
	3rd Km				Km	10.85			
	4th Km				Km	7.20			
	5th Km				Km	6.55			
	6th Km				Km	6.45			
	7th Km				Km	6.15			
	8th Km				Km	6.05			
	9th Km				Km	5.60			
	10th Km				Km	5.15			
	11th Km & subsequent Kms				Km	3.70			
vi)	<b>12" (300 mm) i/d pipes:</b>								
	1st chain (1st 30 m)				30 M	42.50			
	2nd chain (2nd 30 m)				30 M	7.80			
	3rd to 10th chain (60 to 300 m)				30 M	4.85			
	1000 to 3000 ft. (300 to 900 m)				300 M	47.85			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	1st Km				Km	42.20			
	2nd Km				Km	20.20			
	3rd Km				Km	14.50			
	4th Km				Km	9.35			
	5th Km				Km	8.55			
	6th Km				Km	8.35			
	7th Km				Km	7.65			
	8th Km				Km	7.55			
	9th Km				Km	6.95			
	10th Km				Km	6.35			
	11th Km & subsequent Kms				Km	4.70			
vii)	<b>16" (400 mm) i/d pipes:-</b>								
	1st chain (1st 30 m)				30 M	69.70			
	2nd chain (2nd 30 m)				30 M	12.80			
	3rd to 10th chain (60 to 300 m)				30 M	8.00			
	1000 to 3000 ft. (300 to 900 m)				300 M	78.40			
	1st Km				Km	69.15			
	2nd Km				Km	31.95			
	3rd Km				Km	23.35			
	4th Km				Km	15.55			
	5th Km				Km	14.25			
	6th Km				Km	13.95			
	7th Km				Km	12.75			
	8th Km				Km	12.55			
	9th Km				Km	11.65			
	10th Km				Km	10.65			
	11th Km & subsequent Kms				Km	7.75			
viii)	<b>18" (450 mm) i/d pipes:-</b>								
	1st chain (1st 30 m)				30 M	89.55			
	2nd chain (2nd 30 m)				30 M	16.45			
	3rd to 10th chain (60 to 300 m)				30 M	10.25			
	1000 to 3000 ft. (300 to 900 m)				300 M	100.75			



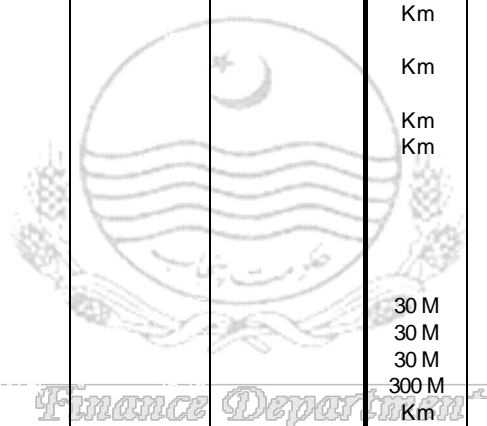
**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	1st Km				Km	88.85			
	2nd Km				Km	40.80			
	3rd Km				Km	30.05			
	4th Km				Km	20.05			
	5th Km				Km	18.35			
	6th Km				Km	17.95			
	7th Km				Km	16.40			
	8th Km				Km	16.20			
	9th Km				Km	15.00			
	10th Km				Km	13.70			
	11th Km & subsequent Kms				Km	9.85			
i x)	<b>20" (500 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	95.05			
	2nd chain (2nd 30 m)				30 M	17.50			
	3rd to 10th chain (60 to 300 m)				30 M	10.90			
	1000 to 3000 ft. (300 to 900 m)				300 M	106.95			
	1st Km				Km	94.35			
	2nd Km				Km	43.30			
	3rd Km				Km	31.90			
	4th Km				Km	21.25			
	5th Km				Km	19.45			
	6th Km				Km	19.05			
	7th Km				Km	17.45			
	8th Km				Km	17.20			
	9th Km				Km	15.90			
	10th Km				Km	14.55			
	11th Km & subsequent Kms				Km	10.65			
x)	<b>24" (600 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	105.35			
	2nd chain (2nd 30 m)				30 M	19.40			
	3rd to 10th chain (60 to 300 m)				30 M	12.05			
	1000 to 5000 ft. (300 to 1500 m)				300 M	118.50			
	1st Km				Km	104.50			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	2nd Km				Km	47.90			
	3rd Km				Km	35.30			
	4th Km				Km	24.00			
	5th Km				Km	21.50			
	6th Km				Km	21.05			
	7th Km				Km	19.25			
	8th Km				Km	19.00			
	9th Km				Km	17.55			
	10th Km				Km	16.05			
	11th Km & subsequent Kms				Km	11.60			
20	Carriage of PVC pipes B.S.S. Class 'B' including loading, unloading and stacking (Rate per 1000 ft.) (300 metre) :-								
	<b>i) 3" (75 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	14.35			
	2nd chain (2nd 30 m)				30 M	2.65			
	3rd to 10th chain (60 to 300 m)				30 M	1.65			
	1000 to 3000 ft. (300 to 900 m)				300 M	16.15			
	1st Km				Km	14.25			
	2nd Km				Km	6.50			
	3rd Km				Km	4.80			
	4th Km				Km	3.20			
	5th Km				Km	2.95			
	6th Km				Km.	2.85			
	7th Km				Km	2.60			
	8th Km				Km	2.55			
	9th Km				Km	2.35			
	10th Km				Km	2.15			
	11th Km & subsequent Kms				Km	1.75			
	<b>ii) 4" (100 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	22.10			
	2nd chain (2nd 30 m)				30 M	4.05			





**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	3rd to 10th chain (60 to 300 m)				30 M	2.55			
	1000 to 3000 ft. (300 to 900 m)				300 M	24.85			
	1st Km				Km	21.95			
	2nd Km				Km	10.25			
	3rd Km				Km	7.45			
	4th Km				Km	4.85			
	5th Km				Km	4.45			
	6th Km				Km	4.35			
	7th Km				Km	4.00			
	8th Km				Km	3.95			
	9th Km				Km	3.65			
	10th Km				Km	3.30			
	11th Km & subsequent Kms				Km	2.80			
iii)	<b>5" (125 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	30.15			
	2nd chain (2nd 30 m)				"	5.55			
	3rd to 10th chain (60 to 300 m)				"	3.45			
	1000 to 3000 ft. (300 to 900 m)				300 M	33.90			
	1st Km				Km	29.90			
	2nd Km				"	13.90			
	3rd Km				"	10.25			
	4th Km				"	6.90			
	5th Km				Km.	6.10			
	6th Km				"	6.00			
	7th Km				"	5.45			
	8th Km					5.40			
	9th Km					5.00			
	10th Km					4.55			
	11th Km & subsequent Kms					3.35			
iv)	<b>6" (150 mm) i/d pipes</b>								
	1st chain (1st 30 m)				30 M	41.55			
	2nd chain (2nd 30 m)				30 M	7.65			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	3rd to 10th chain (60 to 300 m)				30 M	4.75			
	1000 to 3000 ft. (300 to 300 m)				300 M	46.75			
	1st Km.				Km.	41.25			
	2nd Km				Km.	18.90			
	3rd Km				Km.	13.95			
	4th Km				Km.	9.30			
	5th Km				Km.	8.50			
	6th Km				Km.	8.35			
	7th Km				Km.	7.65			
	8th Km				Km.	7.55			
	9th Km				Km.	6.95			
	10th Km				Km.	6.35			
	11th Km & subsequent Kms				Km.	4.60			
v)	<b>8" (200 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	72.90			
	2nd chain (2nd 30 m)				30 M	13.40			
	3rd to 10th chain (60 to 300 m)				30 M	8.35			
	1000 to 3000 ft. (300 to 900 m)				300 M	82.00			
	1st Km				Km	72.35			
	2nd Km				Km	33.20			
	3rd Km				Km	24.45			
	4th Km				Km	16.30			
	5th Km				Km	14.90			
	6th Km				Km	14.60			
	7th Km				Km	13.35			
	8th Km				Km	13.20			
	9th Km				Km	12.20			
	10th Km				Km	11.15			
	11th Km & subsequent Kms				Km	8.05			
vi)	<b>10" (250 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	113.05			
	2nd chain (2nd 30 m)				30 M	20.80			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	3rd to 10th chain (60 to 300 m)				30 M	12.95			
	1000 to 3000 ft. (300 to 900 m)				300 M	127.15			
	1st Km				Km	112.15			
	2nd Km				Km	51.50			
	3rd Km				Km	37.90			
	4th Km				Km	25.25			
	5th Km				Km	23.15			
	6th Km				Km	22.65			
	7th Km				Km	20.70			
	8th Km				Km	20.45			
	9th Km				Km	18.90			
	10th Km				Km	17.30			
	11th Km & subsequent Kms				Km	12.60			
	<b>vii) 12" (300 mm) i/d pipes:-</b>								
	1st chain (1st 30 m)				30 M	159.10			
	2nd chain (2nd 30 m)				30 M	29.25			
	3rd to 10th chain (60 to 300 m)				30 M	18.20			
	1000 to 3000 ft. (300 to 900 m)				300 M	179.00			
	1st Km				Km	157.90			
	2nd Km				Km	72.45			
	3rd Km				Km	53.40			
	4th Km				Km	35.55			
	5th Km				Km	32.60			
	6th Km				Km	31.90			
	7th Km				Km	29.15			
	8th Km				Km	28.75			
	9th Km				Km	26.60			
	10th Km				Km	24.30			
	11th Km & subsequent Kms				Km	17.65			
	<b>viii) 14" (350 mm) i/d pipes:-</b>								
	1st chain (1st 30 m)				30 M	207.10			
	2nd chain (2nd 30 m)				30 M	38.10			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	3rd to 10th chain (60 to 300 m)				30 M	23.70			
	1000 to 3000 ft. (300 to 900 m)				300 M	233.00			
	1st Km				Km	205.55			
	2nd Km				Km	94.30			
	3rd Km				Km	69.45			
	4th Km				Km	46.25			
	5th Km				Km	42.35			
	6th Km				Km	41.50			
	7th Km				Km	37.95			
	8th Km				Km	37.45			
	9th Km				Km	34.60			
	10th Km				Km	31.70			
	11th Km & subsequent Kms				Km	23.05			
21	Carriage of PVC pipes B.S.S. Class 'D' including loading, unloading and stacking (Rates per 1000 ft.):-								
	<b>i) 2" (50 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	10.50			
	2nd chain (2nd 30 m)				30 M	1.95			
	3rd to 10th chain (60 to 300 m)				30 M	1.20			
	1000 to 3000 ft. (300 to 900 m)				300 M	11.80			
	1st Km				Km	10.40			
	2nd Km				Km	4.80			
	3rd Km				Km	3.50			
	4th Km				Km	2.35			
	5th Km				Km	2.15			
	6th Km				Km	2.10			
	7th Km				Km	1.95			
	8th Km				Km	1.90			
	9th Km				Km	1.75			
	10Km				Km	1.60			
	11th Km & subsequent Kms				Km	1.20			
	<b>ii) 2½" (63 mm) i/d pipes-</b>								



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	1st chain (1st 30 m)				30 M	16.30			
	2nd chain (2nd 30 m)				30 M	3.00			
	3rd to 10th chain (60 to 300 m)				30 M	1.85			
	1000 to 3000 ft. (300 to 900 m)				300 M	18.35			
	1st Km				Km	16.20			
	2nd Km				Km	7.45			
	3rd Km				Km	5.50			
	4th Km				Km	3.70			
	5th Km				Km	3.35			
	6th Km				Km	3.30			
	7th Km				Km	3.05			
	8th Km				Km	2.80			
	9th Km				Km	2.65			
	10Km				Km	2.45			
	11th Km & subsequent Kms				Km	1.85			
iii)	<b>3" (75 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	22.60			
	2nd chain (2nd 30 m)				30 M	4.15			
	3rd to 10th chain (60 to 300 m)				30 M	2.60			
	1000 to 3000 ft. (300 to 900 m)				300 M	25.45			
	1st Km				Km	22.45			
	2nd Km				Km	10.30			
	3rd Km				Km	7.60			
	4th Km				Km	5.10			
	5th Km				Km	4.65			
	6th Km				Km	4.55			
	7th Km				Km	4.15			
	8th Km				Km	4.10			
	9th Km				Km	3.70			
	10th Km				Km	3.40			
	11th Km & subsequent Kms				Km	2.55			
iv)	<b>4" (100 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	37.45			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	2nd chain (2nd 30 m)				30 M	6.90			
	3rd to 10th chain (60 to 300 m)				30 M	4.30			
	1000 to 3000 ft. (300 to 900 m)				300 M	42.10			
	1st Km				Km	37.15			
	2nd Km				Km	17.05			
	3rd Km				Km	12.55			
	4th Km				Km	8.35			
	5th Km				Km	7.65			
	6th Km				Km	7.50			
	7th Km				Km	6.95			
	8th Km				Km	6.75			
	9th Km				Km	6.25			
	10th Km				Km	5.65			
	11th Km & subsequent Kms				Km	4.25			
v)	<b>5" (125 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	55.95			
	2nd chain (2nd 30 m)				30 M	10.30			
	3rd to 10th chain (60 to 300 m)				30 M	6.40			
	1000 to 3000 ft. (300 to 900 m)				300 M	62.95			
	1st Km				Km	55.50			
	2nd Km				Km	25.45			
	3rd Km				Km	18.75			
	4th Km				Km	12.50			
	5th Km				Km	11.45			
	6th Km				Km	11.20			
	7th Km				Km	10.25			
	8th Km				Km	10.10			
	9th Km				Km	9.35			
	10th Km				Km	8.45			
	11th Km & subsequent Kms				Km	6.30			
vi)	<b>6" (150 mm) i/d pipes-</b>								
	1st chain (1st 30 m)				30 M	80.60			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description				Rate (Metric System)			Spec. No.	Remarks
					Unit of M/ment	Labour	Composite		
	2nd chain (2nd 30 m)				30 M	14.85			
	3rd to 10th chain (60 to 300 m)				30 M	9.25			
	1000 to 3000 ft. (300 to 900 m)				300 M	90.65			
	1st Km				Km	79.95			
	2nd Km				Km	36.70			
	3rd Km				Km	27.00			
	4th Km				Km	18.00			
	5th Km				Km	16.45			
	6th Km				Km	16.15			
	7th Km				Km	14.80			
	8th Km				Km	14.60			
	9th Km				Km	13.45			
	10th Km				Km	12.30			
	11th Km & subsequent Kms				Km	9.05			
22	Hand shunting loaded Railway wagons or trucks:-								
	a) upto ¼ mile/ ¼ Km				Each	169.00			
	b) upto ½ mile/ ½ Km				No	305.95			
	c) upto ¾ mile/ ¾ Km				"	413.05			
	d) upto 1 (1.6 Km) mile				"	491.55			
	e) 2nd mile and subsequent miles/ 2nd and subsequent kilometres				Each No/Km	276.80			
23	Hand shunting empty Railway wagons or trucks.								
	a) upto ¼ mile/ ¼ Km				Each	98.05			
	b) upto ½ mile/ ½ Km				No.	162.45			
	c) upto ¾ mile/ ¾ Km				"	214.20			
	d) upto 1 mile/ 1 Km				"	257.15			
	e) 2nd mile and subsequent miles/ 2nd and subsequent kilometres				Each No/Km	135.90			

Finance Department

## 2. LOADING, UNLOADING & STACKING

1 The rate for loading into and unloading from mobile trucks, trollies and boats, etc. will be the same as for Railway wagons.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Loading or unloading into or from Railway wagons, lead within one chain, (30m) shingle, sand, ballast, surkhi, ashes, kankar, brick bats, coal, lime or 1,000 Nos. tiles size 12"x6"x2" (300x150x50 mm) or 9"x4½"x1½" (225x113x37mm) properly laid & stacked.	100 Cft.	589.25		cu.m	208.10			
2	Loading or unloading bricks into or from Railway wagons laid and stacked, lead within one chain:-								
	a) Bricks 10" (250 mm) size.	1000 Nos.	736.55		1000 Nos.	736.55			
	b) Bricks 9" (225 mm) or smaller size.	ditto	589.25		ditto	589.25			
3	Loading or unloading into or from Railway wagons cement in bags (from inside or outside the godown) and stacking within one chain (30 m)	100 Bags	736.55		100 Bags	736.55			
4	Loading or unloading into or from Railway wagons empty cement bags (from inside or outside the godown) and stacking.	100 Nos.	70.70		100 Nos.	70.70			
5	Loading or unloading into or from Railway wagons (from inside or outside the godown) and stacking, white lime in bags.	100 Mds.	441.95		100 Kg	11.85			
6	Loading or unloading into or from Railway wagons Structural Steel, R.S. joists, broad, narrow or meter gauge rail and rail fastenings, etc.	Per Tonne	353.55		Per Tonne	347.95			
7	Loading or unloading 45 gallon (204.57 Litres) drums full into or from Railway wagons, lead upto one chain.	Each	44.20		Each	44.20			
8	Loading or unloading packages of all sorts, upto one Cwt (50 Kg).	Each	22.10		Each	22.10		Except cement in jute or paper bags.	
9	Loading or unloading sleepers other than wooden, including stacking lead within one chain:-								
	a) Broad gauge sleepers	100 Nos.	1473.10		100 Nos.	1473.10			
	b) Metre gauge and narrow gauge sleepers.	ditto	736.55		ditto	736.55			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
10	Loading or unloading timber logs or timber for shuttering, into or from Railway wagons of any gauge, including stacking lead within one chain (30 m)	Per Ton	184.15		Per Tonne	181.25			
11	Loading or unloading bhoosa in Railway wagons lead upto 150 ft. (45 m)	100 Mds.	1767.75		100 Kg	47.35			
12	Loading or unloading timber scrap or wooden plugs, into or from Railway wagons, and stacking within one chain lead.	Per Ton	294.60		Per Tonne	289.95			
13	Loading or unloading pitching stone or spawl from Railway wagons of any gauge (including clearing 5 ft. (1500 mm) away from the rail).	100 Cft.	218.00		cu.m	77.00			
14	Loading or unloading building stone (including clearing 5 ft. (1.5 m) away from rails).	100 Cft.	282.85		cu.m	99.90			
15	Unloading oil, bitumen tar, etc.								
	a) Crude oil (to be pumped from tank wagon into tank).	1000 Gallon	736.55		100 litres	16.20			
	b) Crude oil (drained by gravity).	1000 Gallon	736.55		100 litres	16.20			
	c) Crude oil materials from railway wagons.	100 Cft.	94.30		cu.m	33.30			
	d) Fuel oil from tank into empty drums, including stacking within one chain (30 m).	Per Ton	261.90		Per Tonne	257.75			
	e) Petrol (2 gallon tin)	100 Nos.	371.25		100 Nos.	371.25		The rate includes checking and weighing the tins.	
	f) Kerosene oil (4 gallon tin)	100 Nos.	736.55		100 Nos.	736.55			
16	Removing and stacking within one chain (30 m) lead:								
	a) Stone, spawl, brick bats, shingle, sand, lime, surkhi, ashes, kankar and coat, etc.	100 Cft.	294.60		cu.m	104.05			
	b) Bricks.	1000 Nos.	785.65		1000 Nos.	785.65			
	c) Broad gauge wooden sleepers.	100 Nos.	471.4		100 Nos.	471.4			
	d) Metre gauge or narrow gauge wooden sleepers.	100 Nos.	280.60		100 Nos.	280.60			
	e) Rails girders, pipes, cement etc.	Per Ton	130.95		Per Tonne	128.90			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
f)	Bridge and crossing timbers, etc.	100 No.	1571.35		100 No.	1571.35			
17	Loading into wagons girders, rails, permanent way material (except wooden sleepers) iron work, M.S. bars, pipes, etc. including lead one chain (30 M) and stacking inside wagons.	Per Ton	294.60		Per Tonne	289.95			
18	Unloading from wagons girders, rails, permanent way material (except wooden sleepers) iron work, M.S. bars, pipes, etc. lead upto one chain (30 m) but excluding stacking.	Per Ton	168.35		Per Tonne	165.70			
19	Loading into wagons wooden broad gauge sleepers, including one chain (30 m) lead and stacking,.	100 Nos.	1178.50		100 Nos.	1178.50			
20	Unloading wooden broad gauge sleepers from wagons, including one chain (30 m) lead and stacking.	100 Nos.	561.20		100 Nos.	561.20			
21	Loading metre gauge or narrow gauge wooden sleepers, including one chain (30 m) lead and stacking inside wagons.	100 Nos.	589.25		100 Nos.	589.25			
22	Unloading metre gauge or narrow gauge wooden sleepers, including one chain (30 m) lead but excluding stacking.	100 Nos.	310.15		100 Nos.	310.15			
23	Loading bridge and crossing timbers, including one chain (30 m) lead and stacking.	100 Nos.	2357.00		100 Nos.	2357.00			
24	Unloading bridge and crossing timbers, including one chain (30 m) lead but excluding stacking.	100 Nos.	1178.50		100 Nos.	1178.50			
25	Loading or unloading bitumen, asphalt or tar in drums, into or from railway wagons, lead upto one chain (30 m).	Per Ton	176.75		Per Tonne	174.00			

### 3. EARTHWORK (EXCAVATION & EMBANKMENT)

- 1 Special allowances for the hardness, wetness and slush:-  
The grant of allowances for hard, very hard, wet and slush will be subject to Superintending Engineer's approval. Specific instructions regarding grant of such allowances may be issued by the various Administrative Departments and Statutory Bodies. The earth requiring repeated blows of Kassi to break it and of which dry bulk density is not less than 1.5, will be treated as hard.
- 2 Deduction for shrinkage from bank measurements:-  
The following allowances should be provided for material which is not rammed, or equally consolidated:-
  - a) Deduction for shrinkage from the bank measurements when the earthwork is done by manual labour..... 10%
  - b) Deduction for settlement from the bank measurement when the earthwork is done by machines..... 3 to 6%

Before the work is let out to be done by tractors, scrapers, etc. deduction ranging between 3% to 6% should be agreed to with the contractors.

#### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
1	Earthwork excavation undressed lead upto a single throw of Kassi, phaorah or shovel:-							171 to 17.5	
	a) In ashes, sand, soft soil or silt clearance.	1000 Cft.	2,209.70	--	cu.m	78.05	--		
	b) In ordinary soil.	1000 Cft.	2,651.60	--	cu.m	93.65	--		
2	Earthwork excavation in ashes, sand and soft soil or silt clearance, undressed lead upto 50 ft (15 metre).	1000 Cft.	3,240.85	--	cu.m	114.45	--	ditto	
3	Bed clearance and dressing slopes of drains to required sections including the removal of weeds, roots, etc. disposal of excavated materials within 50 ft. (15 metre) lead.							ditto	The rate is applicable where the earth of the bed to be removed is of the type of ordinary soil. When it is silt or 1 or 2 above, whichever is applicable. the drains of each category.
	a) Excavated material undressed.	1000 Cft.	4,124.75	--	cu.m	145.70	--		
	b) Excavated material dressed in the specified manner.	1000 Cft.	4,458.70	--	cu.m	157.50	--		
4	Borrowpit excavation undressed lead upto 100 ft (30 metre).								
	a) Ordinary soil	1000 Cft.	4,124.75	--	cu.m	145.70	--		
	b) Hard soil	1000 Cft.	5,067.55	--	cu.m	179.00	--		
5	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:-							* 411-1 to 411-13 and 301-1 & 202-3	The rate includes hire charges of machinery, cost of fuel, lubricants, pay of driver and cleaner. The rate also includes clearing and grubbing where necessary.
	i) 95% to 100% maximum modified AASHO dry density.	1000 Cft.	4,499.05	5,095.80	cu.m	158.90	180.00		
	ii) 90% maximum modified AASHO dry density.	1000 Cft.	4,499.05	5,004.40	cu.m	158.90	176.75		
	iii) 85% maximum modified AASHO dry density.	1000 Cft.	4,499.05	4,913.00	cu.m	158.90	173.55		
6	Regular excavation dressed.	1000 Cft.	3,035.55	--	cu.m	107.20	--	* 411-2	
7	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from							17.1 to 17.5	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
	trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-								
	i) ordinary	1000 Cft.	5,160.45	5,237.75	cu.m	182.25	185.00		
	ii) hard	1000 Cft.	6,103.25	6,180.55	cu.m	215.55	218.30		
	iii) very hard	1000 Cft.	7,105.00	7,182.25	cu.m	250.95	253.70		
	iv) gravel & shingle	1000 Cft.	11,954.75	12,032.05	cu.m	422.25	424.95		
8	Earthwork excavation in open cutting 5.01 ft. (1.5 m) to 10.0 ft. (3.0 mm) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 100 ft. (30 m) lead:-							ditto	
	i) ordinary	1000 Cft.	5,615.80	5,769.55	cu.m	198.35	203.80		
	ii) hard	1000 Cft.	6,558.60	6,712.35	cu.m	231.65	237.10		
	iii) very hard	1000 Cft.	7,560.35	7,714.05	cu.m	267.05	272.45		
	iv) gravel & shingle	1000 Cft.	12,999.35	13,153.10	cu.m	459.15	464.55		
9	Excavation in shingle or gravel formation and rock, not requiring blasting, undressed lead upto 100 ft (30 m).							17.1 to 17.5	
	i) Dry	1000 Cft.	11,195.70	--	cu.m	395.45	--		
	ii) Wet	1000 Cft.	12,963.45	--	cu.m	457.85	--		
	iii) In flowing water	1000 Cft.	16,498.95	--	cu.m	582.75	--		
10	Earthwork excavation in irrigation channels, drains, etc. to designed section, grades and profiles, excavated material disposed off and dressed within 50 ft. (15 m) lead:-							ditto	
	i) ordinary	1000 Cft.	4,731.95	--	cu.m	167.15	--		
	ii) hard	1000 Cft.	5,674.75	--	cu.m	200.45	--		
	iii) very hard	1000 Cft.	6,676.45	--	cu.m	235.80	--		
	iv) gravel & shingle	1000 Cft.	11,820.85	--	cu.m	417.50	--		
11	Excavation in rock dressed to designed section, grades and profiles, excavated material disposed off within 100 ft. (30 m) and lift upto 5'-0" (1.5 m).							17.1 to 17.5	
	a) Soft rock, slate, shale, schist laterite work, with pick and crow bar.	1000 Cft.	11,285.45	--	cu.m	398.60	--	Tools and plants shall be the liability of the contractor.	
	b) Medium hard rock, requiring occasional blasting.	1000 Cft.	17,884.85	18,475.25	cu.m	631.70	652.55		
12	a) Excavation in hard rock requiring blasting and disposal of excavated material (blasted material) upto 50 ft. (15 m) lead, (including dressing and leveling to designed section, etc. complete).							17.1 to 17.5	
	i) Grade I	1000 Cft.	10,853.05	11,443.45	cu.m	383.35	404.20	1) Tools and plants required shall be the liability of the Contractor	
	ii) Grade II	1000 Cft.	11,669.35	12,653.35	cu.m	412.15	446.90	2) Reduce the rate by 8% if the excavated section is not dressed or levelled to designed section.	
	iii) Grade III	1000 Cft.	13,950.55	15,131.35	cu.m	492.75	534.45		
	iv) Grade IV	1000 Cft.	15,490.75	16,868.35	cu.m	547.15	595.80		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
	v) Grade V	1000 Cft.	17,142.60	18,717.00	cu.m	605.50	661.10		
	vi) Grade VI	1000 Cft.	18,388.15	20,159.35	cu.m	649.45	712.05		
b)	Excavation in hard rock requiring blasting, but blasting prohibited, and disposal of excavated material within 50 ft. (15 m) lead (including dressing and levelling to designed section, etc. complete):-							17.1 to 17.5	1) Tools and plants required shall be the liability of the contractor.  2) Reduce the rate by 8% if the excavated section is not dressed or levelled to designed section.
	i) Grade I	1000 Cft.	21,706.10	22,886.90	cu.m	766.65	808.35		
	ii) Grade II	1000 Cft.	23,338.65	25,306.65	cu.m	824.30	893.85		
	iii) Grade III	1000 Cft.	27,901.10	30,262.70	cu.m	985.45	1068.90		
	iv) Grade IV	1000 Cft.	30,981.45	33,736.65	cu.m	1094.25	1191.60		
	v) Grade V	1000 Cft.	34,285.15	37,433.95	cu.m	1210.95	1322.15		
	vi) Grade VI	1000 Cft.	36,776.25	40,318.65	cu.m	1298.95	1424.05		
13	Rehandling of earthwork:								
	a) Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft.	1,473.10	--	cu.m	52.05	--	ditto	
	b) Upto a lead of 50 ft. (15 m).	1000 Cft.	2,062.35	--	cu.m	72.85	--		
14	Rehandling of gravel work or excavated rock, lead upto 50 ft. (15 m)	1000 Cft.	5,892.50	--	cu.m	208.10	--	17.1 to 17.5	
15	Filling, watering and ramming earth under floors:-							ditto	
	i) with surplus earth from foundation, etc.	1000 Cft.	2,973.15	--	cu.m	105.00	--		
	ii) with new earth excavated from outside, lead upto one chain (30 m).	1000 Cft.	5,743.75	--	cu.m	202.85	--		
16	Extra for every 50 ft. (15 m) additional lead or part thereof :-								This rate shall be applicable upto 1000 ft. total distance, including the lead covered in the item of earthwork
	i) for earhtwork soft, ordinary, hard and very hard.	1000 Cft.	56.70	--	cu.m	2.00	--		
	ii) for gravel, shingle or rock.	1000 Cft.	67.00	--	cu.m	2.35	--		
17	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)								This rate will be paid in addition to the rate of earthwork, without deducting the lead covered in the item of earthwork
	a) upto ¼ mile (400 m).	1000 Cft.	2,871.20	--	cu.m	101.40	--		
	b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	1000 Cft.	7.40	--	cu.m	0.25	--		
	c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	1000 Cft.	165.75	--	cu.m	5.85	--		
	d) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	1000 Cft.	147.70	--	cu.m	5.20	--		
18	Dressing and levelling of earhtwork to designed section, etc. complete:-							17.10 to 17.5	
	a) Ashes, sand, silt or soft soil.	1000 Cft.	192.15	--	cu.m	6.80	--		
	b) Ordinary or hard soil.	1000 Cft.	374.30	--	cu.m	13.20	--		
	c) Gravel work or soft rock not requiring blasting.	1000 Cft.	901.80	--	cu.m	31.85	--		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
19	Dowel dressing.	Per Chain	175.60	--	Metre	5.75	--	ditto	This rate is in addition to payment for dressed earhtwork.
20	a) Dressing slopes of banks or ground surface.	100Sft.	78.40	--	sq.m	8.45	--	ditto	To be paid only when exclusively dressing is done and no earthwork is carried out in embankment or cutting.
	b) Dressing of earthwork (done by machinery or otherwise and left undressed) to designed section.	100Sft.	139.50	--	sq.m	15.00	--		i) The surface area dressed is to be taken for measurement.  ii) The item is applicable where the dressing is done by the contractor other than the one who executed the work.
21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)							17.1 to 17.5	
	a) in sand, ashes or loose soil	1000 Cft.	5,321.20	--	cu.m	187.95	--		
	b) in ordinary soil.	1000 Cft.	6,214.05	--	cu.m	219.50	--		
	c) in hard soil or soft murum.	1000 Cft.	6,955.10	--	cu.m	245.65	--		
22	Cutting hard rock such as granite, ballast, hard lime stone or sand stone, etc. with chisels and hammers, for small foundations.	1000 Cft.	44,559.00	48,594.60	cu.m	1573.80	1716.35	17.1 to 17.5	Tools and plants required shall be the liability of the contractor.
23	Extra for excavation requiring shoring.	1000 Cft.	756.60	1,015.35	cu.m	26.70	35.85	17.1 to 17.5	Composite rate includes materials, i.e. plank, etc.
24	Compaction of earthwork (soft, ordinary or hard soil) :-							ditto	
	a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	1000 Cft.	708.25	--	cu.m	25.00	--		
	b) Compaction by rolling with animal driven roller/hand rammed:								
	i) soft or sandy soil	1000 Cft.	883.85	--	cu.m	31.20	--		
	ii) ordinary soil	1000 Cft.	1,031.20	--	cu.m	36.40	--		
	iii) hard soil	1000 Cft.	1,178.50	--	cu.m	41.65	--		
	iv) admixture of shingle	1000 Cft.	1,325.80	--	cu.m	46.85	--		
	c) Ramming earthwork (all types of soil).	1000 Cft.	883.85	--	cu.m	31.20	--		
	d) Ramming earhtwork behind retaining walls.	1000 Cft.	1,178.50	--	cu.m	41.65	--		
25	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture							17.1 (a) *411-5 and	The rate also includes hire charges of

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
	content in layers, etc. complete:							202-3	machinery, cost of fuel, lubricant, pay of driver and cleaner, etc.
	i) 95% to 100% maximum modified AASHO dry density.	1000 Cft.	--	596.75	cu.m	-	21.10		
	ii) 90% maximum modified AASHO dry density.	1000 Cft.	--	505.35	cu.m	-	17.85		
	iii) 85% maximum modified AASHO dry density.	1000 Cft.	--	413.95	cu.m	-	14.60		
26	Extra for wet earthwork.	1000 Cft.	2,062.35	--	cu.m	72.85	-	17.1 to 17.5	That will support a man's weight.
27	Extra for slush or Daldal including dewatering.	1000 Cft.	4,714.00	--	cu.m	166.50	-	17.1 to 17.5	That will not support a man's weight.
28	Extra for puddling.	1000 Cft.	3,709.75	--	cu.m	131.05	-	ditto	
29	Earthwork on small rain water drains, along canal banks, roads and plantation drains, dressed, etc. complete.	100 Rft.	559.80	--	Metre	18.35	-	ditto	
30	Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft.( 15 m).	1000 Cft.	5,303.25	--	cu.m	187.30	--	17.1 to 17.5	
31	Dag bailing 3" (75 mm) deep.	Per mile	2,244.20	--	Per Km	1394.80	--	ditto	Dag bailing for layout of borrow pit, to be done by contractors at their own cost.
32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	100Sft.	982.10	--	sq.m	105.65	--	ditto	
33	Berm cutting:-							17.1 to 17.5	
	a) lead upto a single throw of Kassi, phaora or shovel (without dressing).	1000 Cft.	2,651.60	--	cu.m	93.65	--		
	b) upto 50 ft(15 m)lead (including dressing).	1000 Cft.	4,731.95	--	cu.m	167.15	--		
34	Berm trimming both sides of channels:-							17.1 to 17.5	
	a) upto 3½ ft. (1.06 m) depth.	Per Mile	6,904.50	--	Per Km.	4315.30	--		
	b) exceeding 3½ ft. to 5 ft. (1.06 to 1.5 m) depth.	Per Mile	9,687.05	--	Per Km.	6054.40	--		
	c) exceeding 5 ft. to 8 ft. (1.5 to 2.4 m) depth	Per Mile	15,103.45	--	Per Km.	9439.65	--		
35	Ploughing and levelling borrowpits.							ditto	Area ploughed to be measured.
	i) upto 3 ft. (0.9 m) depth.	Per Acre	1,473.10	--	Per Hect.	3640.15	--		
	ii) above 3 ft. (0.9 m) depth.	Per Acre	2,946.25	--	Per Hect.	7280.30	--		
36	Making boundary or service roads, including dag-belling, leveling and dressing:							ditto	
	i) in unploughed land:								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
	a) from 10.0 ft. to 20.0 ft. (3 to 6 m) wide.	Per Chain	744.05	--	Metre	24.40	--		
	b) from 20.1 ft. to 40.0 ft. (6.10 to 12 m) wide.	Per Chain	997.05	--	Metre	32.70	--		
	ii) in ploughed land:								
	a) from 10.0 ft. to 20.0 ft. (3 to 6 m) wide.	Per Chain	767.25	--	Metre	25.15	--		
	b) from 20.1 ft. to 40.0 ft. (6.10 to 12 m) wide.	Per Chain	1,020.25	--	Metre	33.45	--		
37	Earthwork by boats, including hire of boats:-							17.1 to 17.5	For ordinary soil.
	i) Digging and loading into boats, upto 50 ft. (15 m) lead.	1000 Cft.	4,419.35	--	cu.m	156.10	--		
	ii) Carriage by boats upto 10 chains (300 m).	1000 Cft.	1,115.40	--	cu.m	39.40	--		
	iii) Extra for every additional one chain (30 m) or part thereof beyond 10 chains (300 m).	1000 Cft.	117.85	--	cu.m	4.15	--		
	iv) Unloading earth from boats.	1000 Cft.	2,062.35	--	cu.m	72.85	--		
38	Unloading earth from B.G. trucks and clearing 5 ft. (1.5 m) from rail.	1000 Cft.	1,767.75	--	cu.m	62.45	--	17.1 to 17.5	
39	Earthwork by tramway, digging and loading in trucks, upto 50 ft. (15 m) lead.	1000 Cft.	4,124.75	--	cu.m	145.70	--	17.1 to 17.5	
40	Unloading earth from B.G. trucks and spreading upto 15 ft. (4.5 m) from rail.	1000 Cft.	3,314.50	--	cu.m	117.05	--	ditto	
41	Supplying clean and screened river or pit sand within 5 chains (150 m).	100Cft.	601.80	624.80	cu.m	212.55	220.70	ditto	The rate includes:- i) removal of top crust of earth over burden ii) royalty to the government or cost to the private owner.
42	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-							17.1 to 17.5 ** 13.1 & 13.4	The rate does not include back filling after laying of sewer, which is payable separately.
	i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000 Cft.	4,800.80	5,183.95	cu.m	169.55	183.10		If the timbering and shuttering is not actually done at site, the composite rate may be reduced by Rs. 368.20, 579.60 and 579.60 respectively.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	1000 Cft.	8,144.90	8,713.35	cu.m	287.70	307.75		
	iii) above 15.0 ft. (4.5 m) depth	1000 Cft.	10,501.85	11,070.35	cu.m	370.95	391.00		
43	Earthwork excavation of trenches in open cutting for sewers and manhole chambers, etc. below sub-soil water level to correct section and dimensions according to templates and levels, including shoring, timbering and shuttering of M.S. sheets on both sides of the trenches:							17.1 to 17.5 **13.3 & 13.5	The rate does not include back filling after laying of sewer, which is payable separately.
	i) 0 ft. to 4.0 ft. (0 to 1.20 m) depth below SSWL.	1000 Cft.	6,604.85	9,140.05	cu.m	233.30	322.85		
	ii) 4.01 ft. to 8.0 ft. (1.22 to 2.4 m) depth below SSWL.	1000 Cft.	8,257.10	11,417.35	cu.m	291.65	403.25		
	iii) Exceeding 8 ft. (2.4 m) depth below SSWL.	1000 Cft.	12,385.65	15,745.70	cu.m	437.45	556.15		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit of M/ment	Labour	Composite	Unit of M/ment	Labour	Composite		
44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000 Cft.	4,428.35	--	cu.m	156.40	--	17.1 to 17.5 **8.1	The rate does not include back filling after laying of pipe line, which is payable separately.
45	Cutting and removing trees within a distance of 100 ft. (30 m)								
	a) upto 2½ ft. (760 mm) girth.	Each	862.10	--	Each	862.10			
	b) above 2½ ft. to 6 ft. (760 to 1800 mm) girth.	Each	1,682.35	--	Each	1682.35			
46	Uprooting stump and removing within 100 ft. (30 m) from 2 ft. to 6 ft. (600 to 1800 mm) girth.	Each	1,104.85	--	Each	1104.85			
47	Jungle clearance and removing within 100 ft. (30 m).								
	a) light	1000 Sft.	147.30	--	sq.m	1.60	--		
	b) thick	1000 Sft.	294.60	--	sq.m	3.15	--		
48	Uprooting Sarkanda growth and disposal within 100 ft. (30 m)	100Sft.	70.70	--	sq.m	7.60	--		
49	Ploughing 3 times.	Per Acre	598.45	--	Per Hect.	1478.80	--		
50	Leveling, dressing and making lawns.	100Sft.	294.60	--	sq.m	31.70	--		
51	Turfing lawns (excluding cost of turf).	100Sft.	253.00	--	sq.m	27.20	--		
52	Earthwork in excavation of drains, irrigation channels through excavator / drag lines in all kind of soil and conditions(dry,wet slush,daldal and under water) including its disposal and preparation of working pad for operation of machinery. (Rates includes 100 ft lead)	1000 Cft.	--	1564.00	cu.m	--	55.25		

\* Specification number correspond to Book of "Specification for Road & Bridge Construction, 1971".

\*\* Specification number correspond to Book of "Building & Roads Department Specification Vol. II, 1966 (Public Health Works).

## 4. DISMANTLING (DEMOLITION)

- 1 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 2 The rates for dismantling roofs or upper storey floor, include the dismantling of all materials, except roof supports such as beams and trusses.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
<b><u>Stone Work</u></b>									
1	Dismantling dry stone masonry.	100Cft.	500.85		cu.m	176.90		18.1	
2	Dismantling stone masonry in mud mortar.	100Cft.	736.55		cu.m	260.15		ditto	
3	Dismantling stone masonry in lime or cement mortar.	100Cft.	1,767.75		cu.m	624.35		ditto	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively.
4	a) Dismantling dry stone or spawl pitching.	100Cft.	883.85		cu.m	312.20		ditto	
	b) Dismantling stone or spawl pitching (mud grouted).	100Cft.	1,119.55		cu.m	395.45		ditto	
5	Dismantling stone or spawl pitching and apron in silted condition.	100Cft.	1,473.10		cu.m	520.30		ditto	
6	Dismantling stone pitching, cement or lime grouted.	100Cft.	2,357.00		cu.m	832.50		ditto	
7	Dismantling stone in crates:								
	a) wooden crates	100Cft.	1,178.50		cu.m	416.25			
	b) wire crates	ditto	1,473.10		ditto	520.30			
8	Dismantling stone ware drain including base concrete.	100Cft.	824.95		cu.m	291.35		ditto	
<b><u>Brick Work</u></b>									
9	Dismantling mud/pise walling.	100Cft.	294.6		cu.m	104.05		18.1	
10	Dismantling sun dried brick masonry.	100Cft.	736.55		cu.m	260.15		ditto	
11	Dismantling dry brick masonry.	100Cft.	500.85		cu.m	176.9		ditto	
12	Dismantling brick work in mud mortar.	100Cft.	1031.2		cu.m	364.2		18.1	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively against item No. 12, 13, 14 & 15.
13	Dismantling brick work in lime or cement mortar.	100Cft.	2504.3		cu.m	884.5		ditto	
14	Dismantling cement block masonry.	100Cft.	2,209.70		cu.m	780.45		ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
15	Dismantling Dhajji walling.  <p align="center"><u>Concrete</u></p>	100Cft.	589.25		cu.m	208.10		ditto	
16	Dismantling mud concrete.	100Cft.	1,178.50		cu.m	416.25		ditto	
17	Dismantling lime concrete.	100Cft.	1,620.45		cu.m	572.35		Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively against item No. 17, 19 & 20.	
18	Dismantling lime or cement concrete, under water.	100Cft.	6,187.10		cu.m	2185.30			
19	a) Dismantling cement concrete plain 1:4:8.	100Cft.	3,240.85		cu.m	1144.65		ditto	
	b) Dismantling cement concrete plain 1:3:6.	ditto	5,303.25		ditto	1873.10			
	c) Dismantling cement concrete 1:2:4 plain.	ditto	6,481.75		ditto	2289.35			
	d) Dismantling cement concrete with brick aggregate.	ditto	1,767.75		ditto	624.35			
	e) Dismantling D.P.C. of cement concrete 1½" thick (40 mm) and clearing the site.	ditto	883.85		ditto	312.20			
20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same.  <p align="center"><u>Roofing</u></p>	100Cft.	10,606.45		cu.m	3746.20		ditto	
21	Dismantling sirki sarkanda or thatched roofing, supported on battens or bellies.	100Sft.	353.55		sq.m	38.05		18.1	
22	a) Dismantling 1st class tile roofing.	100Sft.	883.85		sq.m	95.10		Add extra 13%, 32 and 51% on labour rate only for 2nd, 3rd, 4th and subsequent floors respectively against items No. 22, 25, 26 and 28.	
	b) Dismantling 2nd class tile roofing.	100Sft.	736.55		sq.m	79.25			ditto
23	Dismantling from any height, asbestos sheets and ridge coping.	100Sft.	462.00		sq.m	49.70		18.1	
24	a) Dismantling roof of wooden planks and battens, from any height.	100Sft.	369.6		sq.m	39.75		ditto	
	b) Dismantling wooden ceiling above 20' (6.0 m) height in difficult position, including lifting with care and special scaffolding along live electric wires and with machines underneath.	100Sft.	1,462.35		sq.m	157.35		ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
25	Dismantling jack arch roofing, including removal of joists.	100Sft.	1,178.50		sq.m	126.80		ditto	
26	Dismantling R.B. roof complete with mud and plaster, including separating reinforcement, cleaning and straightening the same.	100Sft.	1,473.10		sq.m	158.50		ditto	
27	a) Stripping and stacking slate or tiles from the truss roofing.	100Sft.	736.55		sq.m	79.25			
	b) Stripping and stacking C.I. sheet roof.	ditto	669.60		ditto	72.05			
	c) Extra for dismantling C.I. sheet roof above 20 ft. (6m) in difficult position, including lifting with special scaffolding along live electric wire with machine underneath.	ditto	816.80		ditto	87.90			
28	Dismantling slates or tiles including battens, purlins and planking.	100Sft.	1,178.50		sq.m	126.80		18.1	
	<b>Flooring</b>								
29	Dismantling brick or flagged flooring without concrete foundation.	100Sft.	500.85		sq.m	53.90		18.1	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively against items No. 29 and 30.
30	Dismantling plank or wooden block flooring, etc.	100Sft.	736.55		sq.m	79.25		ditto	
31	Disjoining R.C.C. pipes inside the trench and dismantling and removing the pipes from the trench and stacking them outside:-								i) The rate does not include the cost of excavation and refilling of trench, or the demolition of any masonry or brick work.
	a) 6" to 12" (150 to 300 mm) diameter	Per Lft	18.50		Metre	60.70			
	b) 13" to 24" (325 to 600 mm) diameter	Per Lft	30.25		Metre	99.20			ii) Bends, elbows, sluice valves, etc. should not be paid for extra if fixed in the length of pipe line that is being dismantled.
	c) 25" to 36" (625 to 900 mm) diameter	ditto	35.40		ditto	116.10			
	d) Above 36" (Above 900 mm) diameter	ditto	50.45		ditto	165.50			
	<b>WOOD WORK</b>								
32	a) Removing door with chowkat.	Per No.	236.00		Per No.	236.00		18.1	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively against items No. 32, 33, 34, 35 & 36.
	b) Removing windows and sky lights with chowkat.	ditto	182.45		ditto	182.45			
33	Removing ventilators and wooden sunshade, etc.	Per No.	95.40		Per No.	95.40		ditto	
34	a) Dismantling wooden beams upto 12' (3.65m) length.	Per No.	184.15		Per No.	184.15		ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	b) Dismantling wooden beams from 12.1' to 23' (3.65 to 7.0 m) length.	ditto	294.60		ditto	294.60			
35	a) Dismantling wooden partition Jaffry work etc.	100Sft.	330.00		sq.m	35.50	ditto		
	b) Dismantling wooden trusses.	100Kg	1,035.25		%Kg	1035.25			
36	Dismantling wooden palisade fencing.	Per Lft.	26.20		Metre	85.95	ditto		
	<b><u>Iron work</u></b>								
37	Dismantling iron work of trusses, sheds, water tanks, etc. excluding cutting of rivets.	100Kg	999.50		%Kg	999.50	18.1	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors respectively against items No. 37 and 38.	
38	Dismantling rolled steel beams or iron rails, etc.	100Kg	483.55		%Kg	483.55	ditto		
39	Dismantling iron latrine.	Per Unit/ 2 Seats	1,071.30		Per Unit/ 2 Seats	1071.30	ditto		
40	Dismantling tees, bends or sluice valves upto 12" (300 mm) bore.	Each per inch bore	21.85		Each per cm bore	8.75	ditto		
41	a) Dismantling B.G. water column.	Each	7,147.80		Each	7147.80	ditto		
	b) Dismantling M.G. or N.G. water column.	Each	4,728.90		Each	4728.90	ditto		
42	Dismantling all type of wire fencing, including rolling wire into bundles and collecting material.	100Lft.	500.85		Metre	16.45	18.1		
	<b><u>Miscellaneous</u></b>								
43	Dismantling wire netting of tennis courts and frame work.	100Sft.	235.70		sq.m	25.35	18.1		
44	Dismantling cloth ceiling and supporting timber.	100Sft.	441.95		sq.m	47.55	ditto		
45	Dismantling and removing road metalling.	100Cft.	1,178.50		cu.m	416.25	ditto		
46	Dismantling and removing road pavement, etc., including screening and stacking of byproducts upto one chain lead (30 metre).	100Cft.	1,573.30		cu.m	555.70	ditto		
47	Removing mud plaster from walls.	100Sft.	122.75		sq.m	13.20	ditto	Add extra 13%, 32% and 51% on labour rates only for 2nd, 3rd, 4th and subsequent floors against item	
48	Removing cement or lime plaster.	100Sft.	245.50		sq.m	26.40	ditto	No. 47, 48, 49, & 50 respectively	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
49	Scraping:-							18.1	
	a) White wash or colour wash.	100Sft.	147.30		sq.m	15.85			
	b) Ordinary distemper, oil bound distemper, or paint of wall.	ditto	441.95		ditto	47.55			
50	Dismantling glazed or encaustic tiles, etc.	100Sft.	1,258.75		sq.m	135.45		18.1	
51	Scraping boulders.	100Cft.	2,062.35		cu.m	728.40		18.1	
52	Cleaning lime or cement mortar of old stones to be used in masonry.	100Cft.	1,031.20		cu.m	364.20		18.1	
	<b><u>Electric Wiring</u></b>								
53	Dismantling light, fan and call bell point including casing and capping/strip open type, and making good damaged surface (building portion).	Per point	40.15	40.65	Per point	40.15	40.65		
54	Dismantling plug point and making good damaged surface (building portion).	Per point	34.45	34.85	Per point	34.45	34.85		
55	Dismantling G.I./M.S. conduit/G.I. flexible/PVC pipes or conduit wiring, etc. of all sizes including making good damaged surface (building portion):-								
	i) on surface	Per foot	7.35	7.45	P.Mtr	24.10	24.45		
	ii) recessed in wall	Per foot	16.00	16.15	P.Mtr	52.50	52.95		

# 5. MORTAR

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

S. No.	Ratio of Mortar	Dry Material Required for 100 Cft. Wet (Ready) Mortar			Dry Material Required for One Cum Wet (Ready) Mortar		
		Cement (50 Kg) Bag	Lime Putty Cft.	Sand Cft.	Cement (50 Kg.) Bag.	Lime Putty Cum	Sand Cum.
1	2	3	4	5	6	7	8
1	Cement : Sand						
	1 : 2	33.48		82	11.83		0.82
	1 : 3	23.11		85	8.16		0.85
	1 : 4	18.37		90	6.49		0.90
	1 : 5	14.70		90	5.19		0.90
	1 : 6	13.61		100	4.81		1.00
	1 : 7	11.68		100	4.12		1.00
	1 : 8	10.21		100	3.61		1.00
2	Cement : Lime : Sand						
	1 : 1 : 6	12.25	15.0	90	4.33	0.15	0.90
	1 : 1 : 7	10.70	13.1	92	3.78	0.13	0.92
	1 : 1 : 8	9.39	11.5	92	3.32	0.12	0.92
	1 : 1 : 9	8.52	10.44	94	3.00	0.10	0.94
	1 : 1 : 10	7.67	9.4	94	2.71	0.09	0.94
	1 : 2 : 8	9.19	22.5	90	3.25	0.23	0.90
	1 : 2 : 9	8.16	20.0	90	2.88	0.20	0.90
	1 : 2 : 10	7.67	18.8	94	2.71	0.19	0.94
	1 : 2 : 12	6.39	15.66	94	2.26	0.16	0.94
	1 : 3 : 12	6.26	23.0	92	2.21	0.23	0.92
	1 : 3 : 14	5.47	20.1	94	1.93	0.20	0.94
	1 : 3 : 16	4.82	17.7	94	1.70	0.18	0.94
	1 : ¼ : 3	23.11	7.0	85	8.16	0.07	0.85
3	Lime : Sand						
	1 : 2		43	86		0.43	0.86
	1 : 3		31	93		0.31	0.93

# 5. MORTAR

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

S. No.	Ratio of Mortar	Dry Material Required for 100 Cft. Wet (Ready) Mortar					Dry Material Required for one M <sup>3</sup> Wet (Ready) Mortar					
		Clay	Lime (Putty)	Sand	Surkhi	Cinder	Clay	Lime (Putty)	Sand	Surkhi	Cinder	
		Cft.	Cft.	Cft.	Cft.	Cft.	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	
1	2	3	4	5	6	7	3	4	5	6	7	
4	Mud	135					1.35					
5	Lime : Surkhi											
	2 : 3		49.00	-	73.5		-	0.49	-	0.74	-	
	1 : 2		40.75	-	81.5		-	0.41	-	0.82	-	
	1 : 3		30.30	-	91.0		-	0.30	-	0.91	-	
6	Lime : Sand : Surkhi											
	1 : 1 : 1		40.50	40.5	40.5		-	0.41	0.41	0.41		
7	Lime : Cinder											
	1 : 1		57.0		-	57.0	-	0.57	-	-		0.57

Wet material required for 100 Cft. masonry (including wastage):

Wet material required for 1M<sup>3</sup> (35.32 Cft) masonry ( including wastage) :

**1 Brick Masonry :**

a) Mud Mortar	35.00 Cft	0.35 M <sup>3</sup>
b) Cement, Sand	25.00 Cft	0.25 M <sup>3</sup>
c) Cement, Lime (Putty) Sand	25.00 Cft	0.25 M <sup>3</sup>
d) Lime (Putty) Sand	25.00 Cft	0.25 M <sup>3</sup>

**2 Stone Masonry :**

a) Random rubble, uncoursed		
i) Foundation and Plinth	45.00 Cft	0.45 M <sup>3</sup>
ii) Superstructure	40.00 Cft	0.40 M <sup>3</sup>
iii) Coursed	35.00 Cft	0.35 M <sup>3</sup>
b) Ashlar Block in course or Scabed masonry	30.00 Cft	0.30 M <sup>3</sup>
c) Ashlar fine masonry	20.00 Cft	0.20 M <sup>3</sup>

- Notes :**
- (1) Cement                      1 Cft.            = 40.8233 Kg
  - (2) Unslaked lime            1.7 Cft.        = 37.3242 Kg
  - (3) Slaked lime                2.5 Cft.        = 37.3242 Kg
  - (4) Quick lime                40 Kg            Will yield 2.6 Cft. lime putty.

Finance Department



## 6. CONCRETE

1. Rates for all finished works include the removal of surplus debris, unused material and by products.
2. If concrete mixer or high frequency vibrator, etc. is supplied by the Government, all charges including depreciation will be recovered from the contractor.
3. Subsequent carriage of crushed stone aggregate / bajri will be paid according to the following:
  - a) The carriage for the whole distance to the site of work shall be calculated on the basis of the rates of the actual means of transport used in carriage, i.e. road and / or rail, as the case may be.
  - b) It shall be payable from the nearest approved quarry.

### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Mud concrete in foundation including watering and ramming, using brick or stone ballast 1½" (40 mm) gauge.	100Cft	3244.80	4813.80	cu.m	1146.05	1700.25		The stone ballast, crushed bajri, round shingle from nallah, or brick ballast may be used according to their comparative cheaper rates in various areas of the Province.
2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	100Cft	2209.70	3727.70	cu.m	780.45	1316.60		
3	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-							20.1	-do-
	(a) Ratio 1: 3: 6	100Cft	4271.50	14589.10	cu.m	1508.70	5152.85		
	(b) Ratio 1: 4: 8	ditto	4271.50	12496.80	"	1508.70	4413.85		
	(c) Ratio 1:5:10	ditto	4271.50	11386.55	"	1508.70	4021.75		
	(d) Ratio 1: 6:12	ditto	4271.50	10553.50	"	1508.70	3727.50		
	(e) Ratio 1: 6: 18	ditto	4271.50	9598.30	"	1508.70	3390.10		
	(f) Ratio 1: 7:20	ditto	4271.50	9209.65	"	1508.70	3252.85		
4	Extra on item No. 3 above, for sedimentation tank or filter beds of Public Health Engineering Works:								
	(a) in bed	100Cft	1314.60	-	cu.m	464.30	-		The stone ballast, crushed bajri, round shingle from nallah, or brick ballast may be used according to their comparative cheaper rates in various areas of the Province.
	(b) on slope	ditto	1943.95	-	"	686.60	-		
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):							20.1	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	(a) Ratio 1: 1:2	100Cft	5711.65	29500.45	cu.m	2017.35	10419.55		
	(b) Ratio 1: 1½: 1½	ditto	5711.65	29028.85	"	2017.35	10253.00		
	(c) Ratio 1: 1½: 3	ditto	5711.65	24010.45	"	2017.35	8480.50		
	(d) Ratio 1: 2: 3	ditto	5711.65	22974.85	"	2017.35	8114.70		
	(e) Ratio 1: 3: 3	ditto	5711.65	20553.70	"	2017.35	7259.55		
	(f) Ratio 1: 2: 4	100Cft	5711.65	21055.30	cu.m	2017.35	7436.75		
	(g) Ratio 1: 2: 6	ditto	5711.65	18937.80	"	2017.35	6688.85		
	(h) Ratio 1: 3: 6	ditto	5711.65	18292.45	"	2017.35	6460.90		
	(i) Ratio 1: 4: 8	ditto	5711.65	16298.50	"	2017.35	5756.65		
6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-							20.4	1) The rate includes rendering floor surface smooth, and the plastering done for making up all surfaces after removing centring.  2) Plastering done under soffit of R.C.C. roof slab meant for human habitation buildings shall be paid extra.  3) This item shall not be applicable to factory made units.  4) Composite rate shall be reduced by Rs: 5/50- P.Cft & Rs:12/- P.Cft if chenab sand and local sand respectively is used.
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-								
	(1) Type A (nominal mix 1:1:2)	Per Cft	132.85	420.60	cu.m	4692.25	14855.60		
	(2) Type B (nominal mix 1: 1½: 3)	ditto	132.85	366.05	"	4692.25	12928.90		
	(3) (c) Type C (nominal mix 1: 2: 4)	ditto	132.85	336.7	"	4692.25	11892.25		
	(a)(ii) Reinforced cement concrete in slab of rafts/ strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-								
	(1) Type A (nominal mix 1: 1: 2)	Per Cft	76.90	332.35	cu.m	2716.10	11738.60		
	(2) Type B (nominal mix 1: 1½: 3)	ditto	76.90	272.90	"	2716.10	9638.85		
	(3) Type C (nominal mix 1: 2: 4)	ditto	76.90	243.50	"	2716.10	8600.40		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	(b) Precast reinforced cement concrete and prestressed reinforced cement concrete in columns, beams, lintels, stair cases, shelves, etc.								
	(1) Type A (nominal mix 1: 1: 2)	Per Cft	100.00	375.40	cu.m	3532.00	13259.15		
	(2) Type B (nominal mix 1:1½: 3)	ditto	100.00	320.45	"	3532.00	11318.30		
	(3) Type C (nominal mix 1: 2: 4)	ditto	100.00	291.50	"	3532.00	10295.80		
	(c) Erecting and fixing in position, precast cement concrete or stone slab in roofs or lintels, etc. lift unto 20 ft., (6m) including all charges.	Per Cft	45.20	53.30	cu.m	1596.45	1882.55		
	(d) Add extra labour for R.C. concrete in 2nd and subsequent storeys.	Per Cft	22.10	--	cu.m	780.55	-		
7	Providing and casting in situ bored reinforced concrete piles with type C concrete (nominal mix 1: 2: 4) , using 10% extra cement in dry mix, and course sand, including all labour and material (except the cost of steel reinforcement and its labour for bending and laying in position, etc. which will be paid separately, including, screening & washing of shingle and curing:-							* 851-1 to 851-10 Composite rate shall be reduced by Rs: 5/50 P.Cft & Rs.12/- P.Cft if chenab sand and local sand respectively is used.	
	i) 18" (450 mm) dia pile	Per Rft	783.90	1096.25	Metre	2571.20	3595.70		
	ii) 20" (500 mm) dia pile	Per Rft	918.15	1303.55	Metre	3011.55	4275.65		
	iii) 22" (550 mm) dia pile	Per Rft	1120.5	1571.95	Metre	3675.25	5156		
	iv) 24" (600 mm) dia pile	Per Rft	1391.50	1946.65	Metre	4564.10	6385.05		
8	Fabrication of mild steel reinforcement bar cage for R.C.C. bored piles, including cutting, bending, laying in position, welding and fastening, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from the bars):-							* 851-5 The rate includes wastage, overlaps, etc. but does not apply to the laps and spiral reinforcement which are specifically shown in the structural / working drawings of piles as per lapping requirements of design.	
	(a) plain bars	Per Cwt.	1523.30	5003.65	100 kg	2998.60	9849.70		
	(b) deformed bars	ditto	1523.30	5965.60	"	2998.60	11743.30		
9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints							* 851.5 The rate includes wastage, overlaps and chairs, etc.	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-								
	(a) Plain bars	Per Cwt.	393.35	4053.90	100 kg	774.30	7980.10		
	(b) Deformed bars (Grade-40)	ditto	393.35	5093.40	ditto	774.30	10026.40		
	(c) Deformed bars (Grade-60)	ditto	393.35	5324.40	ditto	774.35	10481.10		
10	Precast cement concrete solid or face blocks (1:2:4), including cost of templates.	Per Cft	50.60	199.25	cu.m	1787.20	7037.50	20.2	
11	Precast cement concrete hollow blocks (1: 2: 4) , including cost of templates and constructing walls thereof.	Per Cft	112.15	209.80	cu.m	3961.15	7410.15	20.2	
12	Providing and fixing ornamental cement jali 2" (50 mm) thick (1: 2: 4), without steel.	Per Sft	31.45	56.60	sq,m	338.40	609.00	20.1 to 20.4	
13	Extra labour for laying concrete plain or reinforced:								
	(a) above 20' (6 m) upto 40'(12 m) height	100Cft	2357.00	-	cu.m	832.50	-		
	(b) for every additional 10'(3 m) height.	100Cft	1473.10	-	cu.m	520.30	-		
14	Extra labour for work of weirs, rail or road bridges, syphons, and concreting in superstructure	100Cft	589.25	-	cu.m	208.10	-		
15	Making reinforced cement concrete spout, including fixing in position (2½ x 6" x5") (760 mmx150 mm x 125 mm)	Each	393.35	546.20	Each	393.35	546.20	20.4	
16	Making holes upto 3" (75 mm) dia 18" (450 mm) depth in cement concrete or stone masonry walls and repairing.	Per hole	944.05	-	Each	944.05	-	20.1	
17	Extra labour for skipping concrete in wells.	100Cft	3504.15	-	cu.m	1237.65	-	20.1	
18	Nicking concrete surface:								
	(a) Cement concrete surface	100Sft	334.75	-	sq,m	36.00	-		
	(b) Lime concrete surface	ditto	110.45	-	"	11.90	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
19	Preparing, watering and ramming surface for laying concrete (for Headworks only):- (a) Horizontal floor (b) Glacis and crest (c) Inverted filters	100Sft	334.75	-	sq.m	36.00	-		
		ditto	482.05	-	"	51.85	-		
		ditto	157.35	-	"	16.95	-		
20	Fabrication of high tensile steel prestressing cables for prestressed (post tensioned) concrete, including assembling by drawing the H.T. wire through metal spacer plate, inserting in helix core and taping or tying, sheathing in longitudinally welded metal corrugated sheath, positioning, anchorage with male and female set of anchorage cone, forming ducts for transverse cable, stressing cables with jack at both ends as per stressing schedule, maintaining stressing record and supply the same in the approved proforma to the Engineer-in-charge, making loop at blind end, including all materials required for it, grouting the cable ducts with cement, cutting projected ends and making good recesses, etc., complete in all respects.	100 Kg.	4843.85	32392.30	100 Kg.	4843.85	32392.30	* 811-1 to 811-11	The rate includes wastage in cutting and breakage in stressing, etc.
21	Fabrication of High Tensile steel reinforcement for prestressed (pretension) concrete work, including inserting wire in moulds, providing M.S. shear bars, spacers and lift hooks, male and female anchorage, tie down, struts, stressing cables, maintaining stress record and supply the same in approved proforma to the Engineer-in-charge, cutting wires and projecting ends and making good recesses, etc., complete in all respects.	100kg	2883.55	29300.45	%kg	2883.55	29300.45		1) The rate includes wastage in cutting and breakage in stressing, etc.  2) Quantity of H. T. wire will form basis of payment. 3) This item shall not be applicable to factory made units.
22	Lifting, transporting and placing precast prestressed concrete Beam, Girder and other members (excluding battens) etc. in Position on the bridge to correct alignment and level, etc. complete							* 811-1 to 811-11	
	i) Beam upto 50 ft. (15 m) length	100Cft		1795.75	cu.m		634.25		
	ii) Beam above 50 ft. (15m) upto 75 ft. (22.5m) length	100Cft		2546.08	cu.m		899.30		
	iii) Beam above 75ft. (22.5m) upto 100ft. (30m) length	100Cft		3439.80	cu.m		1214.95		
	iv) Beam above 100ft. (30m) upto 150ft.(45m) length	100Cft		4467.40	cu.m		1577.90		
	v) Beam above 150ft. (45m) length	100Cft		5525.25	cu.m		1951.50		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
23	Providing and laying foam concrete 3 inch (75 mm) thick, using cement sand in the ratio of 1:2 and aluminium powder at the rate of 0.2% of the cement, sand mix,	Per Sft.	30.95	69.20	sq.m.	333.00	744.60		
24	Providing and fixing 6 in(150 mm). wide curved sheet of required shape fixed on face of the construction joint with G.I. screw, 1.5 in (40 mm) long to cover construction joints vertically:-								
	i) aluminium sheet 1/16 in(1.5 mm) thick	Per Rft.	15.25	92.20	Metre	50.00	302.40		
	ii) G.I. sheet, 18 SWG	Per Rft.	15.65	79.35	Metre	51.35	260.25		
25	Providing and fixing 1/8" (3 mm) thick 3" (75 mm) wide aluminium strip on horizontal and vertical expansion joints in walls, columns, ceilings and floors etc., including cost of clips/screws etc., complete in all respects:-								
	a) On interior surface (without mastic strip)	Per Rft.	13.95	90.85	Metre	45.75	298.00		
	b) On exterior surface (with mastic strip)	ditto	13.95	94.45		45.75	309.80		
26	Providing and fixing 1/16" (1.5 mm) thick copper flashing on expansion joints complete in all respects.	Per Sft.	15.75	104.75	Sq.m	169.45	1127.10		
27	Providing and fixing 6 in (150 mm). wide G.I. sheet 18SWG. stopper to expansion joint.	Per Rft.	5.15	63.15	Metre	16.90	207.15		
28	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	Per Rft.	20.90	68.90	Metre	68.55	225.95		
29	Filling expansion joints with bitumen. sand & saw dust in ratio 1:2:2.	Per Rft per inch width	3.70	14.15	P.Metre/ Per 25 mm Width	12.15	46.40		
30	Filling expansion joints with bitumen.	Per Rft.	54.40	-	Metre	178.45	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
31	Laying asphaltic mixture in expansion joints.	Per Rft.	51.55	-	Metre	169.10	-		Material to be paid on actuals.
32	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:								
	a) 1" (25 mm) thick thermopore sheet	Per Sft.	6.30	11.80	Sq.m	67.80	126.95		
	b) 1½" (40 mm) thick thermopore sheet	ditto	6.30	15.65	"	67.80	168.40		
33	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :-								
	(a) with one coat bitumen and one coat polythene sheet 500gauge								
	i) 1½" thick (40 mm)	100Sft	1471.25	4326.60	sq,m	158.30	465.55		
	ii) 2" thick (50 mm)	100Sft	1471.25	4887.45	sq,m	158.30	525.90		
	iii) 3" thick (75 mm)	100Sft	1527.00	6167.70	sq,m	164.30	663.65		
	(b) with 2 coats of bitumen:								
	i) 1½" thick (40 mm)	100Sft	1471.25	4507.85	sq,m	158.30	485.05		
	ii) 2" thick (50 mm)	100Sft	1471.25	5068.20	sq,m	158.30	545.35		
	iii) 3" thick (75 mm)	100Sft	1527.00	6348.45	sq,m	164.30	683.10		
34	Providing and laying damp proof course with cement sand plaster and bitumen coating:-								
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge :-								
	i) Ratio 1: 4								
	a) ½" thick (13 mm)	100Sft	1387.55	2764.75	sq,m	149.30	297.50		
	b) ¾" thick (20 mm)	100Sft	1387.55	3056.85	sq,m	149.30	328.90		

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ii) Ratio 1:3								
	a) ½" thick (13 mm)	100Sft	1387.55	2857.50	sq,m	149.30	307.45		
	b) ¾" thick (20mm)	100Sft	1387.55	3165.95	sq,m	149.30	340.65		
	iii) Ratio 1:2								
	a) ½" thick (13 mm)	100Sft	1387.55	3014.65	sq,m	149.30	324.40		
	b) ¾" thick (20 mm)	100Sft	1387.55	3444.00	sq,m	149.30	370.55		
	(b) with 2 coats of bitumen:-								
	i) Ratio 1: 4								
	a) ½" thick (13 mm)	100Sft	1387.55	2838.40	sq,m	149.30	305.40		
	b) ¾" thick (20 mm)	100Sft	1387.55	3130.65	sq,m	149.30	336.85		
	ii) Ratio 1:3								
	a) ½" thick (13 mm)	100Sft	1387.55	2932.10	sq,m	149.30	315.50		
	b) ¾" thick (20 mm)	100Sft	1387.55	3240.55	sq,m	149.30	348.70		
	iii) Ratio 1:2								
	a) ½" thick (13 mm)	100Sft	1387.55	3162.95	sq,m	149.30	340.35		
	b) ¾" thick (20 mm)	100Sft	1387.55	3623.50	sq,m	149.30	389.90		
35	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-								
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:								
	i) Ratio 1: 4								
	a) ½" thick (13 mm)	100Sft	1387.55	2690.70	sq,m	149.30	289.50		
	b) ¾" thick (20 mm)	100Sft	1387.55	2983.15	sq,m	149.30	321.00		
	ii) Ratio 1:3								
	a) ½" thick (13 mm)	100Sft	1387.55	2783.80	sq,m	149.30	299.55		
	b) ¾" thick (20 mm)	100Sft	1387.55	3092.25	sq,m	149.30	332.75		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iii) Ratio 1:2								
	a) ½" thick (13 mm)	100Sft	1387.55	3014.65	sq.m	149.30	324.40		
	b) ¾" thick (20 mm)	100Sft	1387.55	3475.20	sq.m	149.30	373.95		
	(b) with 2 coats of bitumen:-								
	i) Ratio 1: 4								
	a) ½" thick (13 mm)	100Sft	1387.55	2838.25	sq.m	149.30	305.40		
	b) ¾" thick (20 mm)	100Sft	1387.55	3130.65	sq.m	149.30	336.85		
	ii) Ratio 1:3								
	a) ½" thick (13 mm)	100Sft	1387.55	2931.25	sq.m	149.30	315.40		
	b) ¾" thick (20 mm)	100Sft	1387.55	3239.75	sq.m	149.30	348.60		
	iii) Ratio 1:2								
	a) ½" thick (13 mm)	100Sft	1387.55	3162.30	sq.m	149.30	340.25		
	b) ¾" thick (20 mm)	100Sft	1387.55	3622.65	sq.m	149.30	389.80		
36	Grouting concrete between, the grooves of gates, including shuttering.	100Cft	6534.00	-	cu.m.	2307.80	-		
37	Chisel dressing concrete surface on sides of grooves.	100Sft	184.10	-	sq.m	19.80	-		
38	Laying and ramming dry ballast or kankar.	100Cft	2393.80	-	cu.m	845.50	-		
39	Hoisting and placing in position R.C.C. shelves.	per No.	72.20	-	per No.	72.20	-		
40	Breaking brick ballast, screening and stacking:-								
	(a) 2" (50 mm) ring	100Cft.	1841.40	-	cu.m	650.40	-		
	(b) 1½" (40 mm) ring	ditto	2062.35	-	"	728.40	-		
	(c) 1" (25 mm) ring	ditto	2393.80	-	"	845.50	-		
	(d) Jhama ballast ¾" (20 mm) ring	ditto	2762.10	-	"	975.55	-		
41	Supplying and fixing broken glasses on court yard walls, including 1:3: 6 cement concrete coping.	Per Rft	56.90	101.50	metre	186.65	332.90		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
42	Crushing stone ballast by machine.	100Cft	1841.40	-	cu.m.	650.40	-	This does not include the charges for working of crushers, but includes manual labour for carriage of stone to crusher within three chains (90 m) and also stacking the product after crushing within three chains (90 m).	
43	Breaking stone ballast screened and stacked:-								
	(a) 2" ring (50 mm)	100Cft.	2062.35	-	cu.m.	728.40	-		
	(b) 1½" ring (40 mm)	ditto	2393.80	-	"	845.50	-		
	(c) 1" ring (25 mm)	ditto	2762.10	-	"	975.55	-		
	(d) ½" ring (13 mm)	ditto	3682.80	-	"	1300.75	-		
	(e) 1/8" to ¼" ring (3 mm to 6 mm)	ditto	6260.75	-	"	2211.30	-		
44	Screening and stacking stone ballast shingle or bajri, etc.	100Cft.	589.25	-	cu.m.	208.10	-		
45	Washing ballast, bajri or shingle.	100Cft.	589.25	-	cu.m.	208.10	-		
46	Erecting and carting sun shades of precast R.C. concrete upto 5' x 2½' (1.50 m x 0.76 m)	Each	319.40	-	Each	319.40	-		

Specification numbers correspond to book of standard specification of Road and Bridge Construction, "1971"

# 7. BRICK WORK

- 1 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 2 The rates apply to all sizes of bricks, including the modular bricks of size 8"x4"x4" (200x100x100 mm) nominal.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Pacca brick work in mud mortar in buildings:								
	i) in foundation and plinth	100Cft.	2856.85	14977.15	cu.m	1009.05	5289.95	21.1 to 21.4	Masonry of boundary wall to be considered as masonry other than building.  The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used.
	ii) in ground floor	ditto	3780.85	15901.15	ditto	1335.40	5616.30		
2	Add extra labour on item No. 1 for brick work in:-								
	i) first floor	100Cft.	756.60	--	cu.m	267.25	-		
	ii) second floor	ditto	1680.60	--	ditto	593.60	-		
	iii) third floor	ditto	2604.60	--	ditto	919.95	-		
	iv) fourth & subsequent floors	ditto	4158.00	--	ditto	1468.60	-		
3	Pacca brick work in mud mortar other than building:-								
	i) upto 20 ft. (6.1 m) height	100Cft.	3896.40	16016.70	cu.m	1376.20	5657.10	21.1 to 21.4	Same remarks as against item No. 1 above
	ii) extra labour for every 5 ft. (1.5 m) additional height, or part thereof.	ditto	756.60	--	ditto	267.25	-		
4	Pacca brick work in foundation and plinth in:-								
	i) Cement, sand mortar:-								ditto  Same remarks as against item No. 1 above.
	Ratio 1:2	100Cft.	3756.60	21183.00	cu.m	1326.80	7481.85		
	Ratio 1:3	ditto	3756.60	19940.40	ditto	1326.80	7042.95		
	Ratio 1:4	ditto	3756.60	19194.85	ditto	1326.80	6779.60		
	Ratio 1:5	ditto	3756.60	18697.80	ditto	1326.80	6604.05		
	Ratio 1:6	ditto	3756.60	18324.25	ditto	1326.80	6472.15		
	Ratio 1:7	ditto	3756.60	18080.40	ditto	1326.80	6386.00		
	Ratio 1:8	ditto	3756.60	17865.20	ditto	1326.80	6310.00		
	ii) lime, cement sand mortar:-							21.1	
	Ratio 1:1:6	100Cft.	3756.60	18599.55	cu.m	1326.80	6569.35		
	Ratio 1:1:7	ditto	3756.60	18339.05	ditto	1326.80	6477.35		
	Ratio 1:1:8	ditto	3756.60	18128.45	ditto	1326.80	6402.95		
	Ratio 1:1:9	ditto	3756.60	17951.75	ditto	1326.80	6340.55		
	Ratio 1:1:10	ditto	3756.60	17819.40	ditto	1326.80	6293.80		
	iii) lime, sand mortar 1:2	100Cft.	3756.6	17363.5	cu.m	1326.8	6132.8	ditto	ditto

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
5	Pacca brick work in ground floor:-							ditto  i) The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used. ii) Masonry of boundary wall to be considered as masonry other than building.  The rate of lime mortar also includes grinding of mortar.  The rate of lime mortar also includes grinding of mortar.	
	i) cement, sand mortar:-								
	Ratio 1:2	100Cft.	4975.25	22401.65	cu.m	1757.25	7912.25		
	Ratio 1:3	ditto	4975.25	21159.05	ditto	1757.25	7473.40		
	Ratio 1:4	ditto	4975.25	20413.45	ditto	1757.25	7210.05		
	Ratio 1:5	ditto	4975.25	19916.45	ditto	1757.25	7034.50		
	Ratio 1:6	ditto	4975.25	19542.85	ditto	1757.25	6902.55		
	Ratio 1:7	ditto	4975.25	19299.05	ditto	1757.25	6816.45		
	Ratio 1:8	ditto	4975.25	19082.25	ditto	1757.25	6739.85		
	ii) lime, cement, sand mortar:-								
	Ratio 1:1:6	100Cft.	4975.25	19818.15	cu.m	1757.25	6999.75		
	Ratio 1:1:7	ditto	4975.25	19560.35	ditto	1757.25	6908.70		
	Ratio 1:1:8	ditto	4975.25	19347.05	ditto	1757.25	6833.40		
	Ratio 1:1:9	ditto	4975.25	19170.35	ditto	1757.25	6770.95		
	Ratio 1:1:10	ditto	4975.25	19038.45	ditto	1757.25	6724.40		
	iii) lime, sand mortar 1:2	100Cft.	4975.25	18582.15	cu.m	1757.25	6563.20		
6	Add extra labour on item No. 5 for brickwork in:-								
	i) first floor	100Cft.	756.60	--	cu.m	267.25	-		
	ii) second floor	ditto	1680.60	--	ditto	593.60	-		
	iii) third floor	ditto	2604.60	--	ditto	919.95	-		
	iv) fourth & subsequent floors	ditto	4158.00	--	ditto	1468.60	-		
7	Pacca brick work other than building upto 10ft. (3 m) height.							21.1 to 21.5  i) The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used. ii) Workshops, godowns, bins, house type godowns, reservoirs, filter beds, storage tanks, wells, screening chambers, collecting tanks, manholes etc. are to be treated as masonry other than buildings.  The rate of lime mortar also includes grinding of mortar.	
	i) cement, sand mortar:-								
	Ratio 1:2	100Cft.	4334.35	21760.75	cu.m	1530.90	7685.90		
	Ratio 1:3	ditto	4334.35	20518.15	ditto	1530.90	7247.00		
	Ratio 1:4	ditto	4334.35	19772.60	ditto	1530.90	6983.70		
	Ratio 1:5	ditto	4334.35	19275.55	ditto	1530.90	6808.10		
	Ratio 1:6	ditto	4334.35	18902.00	ditto	1530.90	6676.20		
	Ratio 1:7	ditto	4334.35	18658.15	ditto	1530.90	6590.05		
	Ratio 1:8	ditto	4334.35	18442.95	ditto	1530.90	6514.05		
	ii) lime, cement, sand mortar:-								
	Ratio 1:1:6	100Cft.	4334.35	19177.30	cu.m	1530.90	6773.40		
	Ratio 1:1:7	ditto	4334.35	18916.80	ditto	1530.90	6681.40		
	Ratio 1:1:8	ditto	4334.35	18706.20	ditto	1530.90	6607.05		
	Ratio 1:1:9	ditto	4334.35	18529.40	ditto	1530.90	6544.60		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	Ratio 1:1:10	ditto	4334.35	18397.15	ditto	1530.90	6497.85		
	iii) lime, sand mortar 1:2	100Cft.	4334.35	17941.25	cu.m	1530.90	6336.85		ditto
8	Add extra labour on item No. 7, for every 10ft.(3 m) additional height, or part thereof.	100Cft.	756.60	--	cu.m	267.25	-		
9	Extra labour for arch work in brick masonry, including labour for centring and decentring.	100Cft.	1298.90	--	cu.m	458.75	-	21.5	
10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft.	836.90	1565.05	cu.m	295.60	552.80	21.1 to 21.4	The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used.
11	Extra labour for profile and flared walls.	100Cft.	287.90	--	cu.m	101.70	-		
12	Extra labour for pacca brick work in piers and abutment:-								
	i) from 10ft. to 20ft. (3 m to 6 m) height	100Cft.	374.95	--	cu.m	132.45	-		
	ii) above 20 ft. (6 m) height.	100Cft.	756.60	--	cu.m	267.25	-		
13	Extra for face work (half brick thick) using special bricks instead of first class bricks.	100Cft.		3058.40	cu.m		1080.25		This item is to be executed only under the written permission of Superintending Engineer.
14	Reinforced brick work in lintel of openings, laid in 1:3 cement mortar, including all labour, material, forms, moulds, lifting & shuttering, etc, (but excluding cost and labour of steel reinforcement which shall be paid for separately).	Per Cft.	123.65	291.30	cu.m	4366.95	10288.70		
15	Extra for dressing or chamfering bricks for:-								
	a) special architectural bricks	100 Nos.	2208.85	-	% Nos.	2208.85	-		
	b) all other purposes	ditto	1104.40	-	ditto	1104.40	-		
16	Perforated pacca brick walling half brick thick, in ground floors:-							21.1 to 21.4	The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used.
	i) mud mortar	100 Sft.	1887.50	4922.00	Sqm.	203.10	529.60		
	ii) cement, sand mortar:-								
	Ratio 1:2	100 Sft.	2493.60	6854.65	sq.m.	268.30	737.55		
	Ratio 1:3	ditto	2493.60	6543.60	ditto	268.30	704.10		
	Ratio 1:4	ditto	2493.60	6357.60	ditto	268.30	684.10		
	Ratio 1:5	ditto	2493.60	6233.35	ditto	268.30	670.70		
	Ratio 1:6	ditto	2493.60	6145.95	ditto	268.30	661.30		
	Ratio 1:7	ditto	2493.60	6078.30	ditto	268.30	654.05		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	Ratio 1:8	ditto	2493.60	6028.40	ditto	268.30	648.65		
iii)	lime, cement sand mortar								The rate of lime mortar also includes grinding of mortar.
	Ratio 1:1:6	100Sft.	2493.60	6208.75	sq.m	268.30	668.05		
	Ratio 1:1:7	100Sft.	2493.60	6142.40	sq.m	268.30	660.90		
	Ratio 1:1:8	100Sft.	2493.60	6093.70	sq.m	268.30	655.70		
	Ratio 1:1:9	100Sft.	2493.60	6046.00	sq.m	268.30	650.55		
	Ratio 1:1:10	100Sft.	2493.60	6018.15	sq.m	268.30	647.55		
iv)	lime, sand mortar 1:2	100Sft.	2493.60	5896.50	sq.m	268.30	634.45		ditto
17	Add extra labour on item No. 16 for pacca brick work in:-								
i)	first floor	100Sft.	381.65	-	sq.m	41.05	-		
ii)	second floor	ditto	836.95	-	ditto	90.05	-		
iii)	third floor	ditto	1305.65	-	ditto	140.50	-		
iv)	fourth & subsequent floors	ditto	1999.05	-	ditto	215.10	-		
18	Perforated pacca brick walling one brick thick, in ground floor:							21.1 to 21.4	The composite rate is to be reduced by 7% and 14%, if 2nd or 3rd class bricks are used.
i)	mud mortar	100Sft.	2669.85	8730.00	sq.m	287.30	939.35		
ii)	cement, sand mortar:-								
	Ratio 1:2	100 Sft.	3745.00	12458.20	sq.m	402.95	1340.50		
	Ratio 1:3	ditto	3745.00	11836.90	ditto	402.95	1273.65		
	Ratio 1:4	ditto	3745.00	11464.10	ditto	402.95	1233.55		
	Ratio 1:5	ditto	3745.00	11215.60	ditto	402.95	1206.80		
	Ratio 1:6	ditto	3745.00	11040.85	ditto	402.95	1188.00		
	Ratio 1:7	ditto	3745.00	10905.00	ditto	402.95	1173.40		
	Ratio 1:8	ditto	3745.00	10799.35	ditto	402.95	1162.00		
iii)	lime, cement, sand mortar:-								The rate of lime mortar also includes grinding of mortar
	Ratio 1:1:6	100Sft.	3745.00	11166.45	sq.m	402.95	1201.50		
	Ratio 1:1:7	ditto	3745.00	11033.00	ditto	402.95	1187.15		
	Ratio 1:1:8	ditto	3745.00	10930.95	ditto	402.95	1176.15		
	Ratio 1:1:9	ditto	3745.00	10842.55	ditto	402.95	1166.65		
	Ratio 1:1:10	ditto	3745.00	10777.75	ditto	402.95	1159.70		
iv)	lime, sand mortar 1:2	100Sft.	3745.00	10547.20	sq.m	402.95	1134.90		ditto
19	Add extra labour on item No. 18 for perforated pacca brick work in:-								
i)	first floor	100Sft.	567.45	--	sq.m	200.45	-		
ii)	second floor	ditto	1260.45	--	ditto	445.20	-		
iii)	third floor	ditto	1953.45	--	ditto	689.95	-		
iv)	fourth & subsequent floors	ditto	3118.50	--	ditto	1101.45	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
20	Fire brick masonry in fireclay mortar:-								
	i) upto 20 ft. (6.10 m) height including all charges.	Per Cft.	46.70	640.95	cu.m	1649.15	22638.55	21.1 to 21.2	
	ii) Extra for every 5 ft. (1.5 m) additional height, or part thereof.	100Cft.	756.60	--	ditto	267.25	-	A&C No.I dated 2.9.1998	
21	First class brick walling laid in 1:3 cement sand mortar, reinforced with 1" (25 mm) wide 18 gauge hoop iron:-							21.19	
	i) 4½" (113 mm) thick walling with hoop iron, bonding 6" (150 mm) apart.	100Sft.	2072.85	9319.40	sq.m	223.05	1002.75		
	ii) 4½" (113 mm) thick walling with hoop iron, bonding 12" (300 mm) apart.	100Sft.	1846.90	8640.10	sq.m	198.75	929.70		
	iii) 3" (75 mm) thick walling with hoop iron, bonding 6" (150 mm) apart.	ditto	1641.55	6910.60	ditto	176.65	743.60		
	iv) 3" (75 mm) thick walling with hoop iron, bonding 12" (300 mm) apart.	ditto	1313.25	6078.80	ditto	141.30	654.10		
22	Ghilafi work (1½ brick thick wall)	100Cft.	3805.15	10356.70	cu.m	1344.00	3658.00	21.18	
23	Dry brick pitching	100Cft.	2310.00	14298.00	cu.m	815.90	5050.05	21.1	
24	Sun dried bricks in mud mortar	100Cft.	3218.40	4201.20	cu.m	1136.75	1483.85	21.16	
25	Pise wall (mud walling)	100Cft.	1857.00	--	cu.m	655.90	-	21.17	
26	Eave brick moulded, weathered and throated with back brick or drip course cornice, in 1:3 cement mortar:-							21.1 to 21.2	
	i) 3" (75 mm) thick drip course cornice	Rft.	23.55	56.80	Metre	77.25	186.30		
	ii) 4½" (113 mm) thick drip course cornice.	ditto	26.70	110.40	ditto	87.60	362.10		
	iii) 4½" (113 mm) thick eave brick with back brick.	ditto	18.50	126.85	ditto	60.70	416.05		
27	Laying dressed or moulded brick cornices in 1:6 cement mortar, plastering or painting complete:-							21.1 to 21.2	
	i) 1 brick	Rft.	26.70	43.20	Metre	87.60	141.70		
	ii) 2 bricks	ditto	39.30	89.65	ditto	128.90	294.05		
	iii) 3 bricks	ditto	52.40	137.00	ditto	171.85	449.35		
	iv) 4 bricks	ditto	65.95	187.35	ditto	216.30	614.50		
28	Cleaning bricks dismantled from kacha pacca masonry	1,000 Nos	1031.20	--	1,000 Nos	1031.20	-		
29	Scraping bricks dismantled from pacca masonry	1,000 Nos	1944.50	--	1,000 Nos	1944.50	-		
30	Supplying and filling sand under floor; or plugging in wells.	100Cft.	245.50	1805.50	cu.m	86.70	637.70		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
31	Providing and laying 2" (50 mm) thick and 15" (375 mm) projected tile band, laid in 1:2 cement sand mortar, with hoop iron 1" (25 mm) wide 18 gauge flat iron sheet 9" apart.	Rft.	98.35	154.85	Metre	322.60	507.90		
32	First class brick tiles clad by laying tiles in stretcher course in cement sand mortar reinforced with 18 SWG hoop iron strips bonding placed at 2.0' (600 mm) apart horizontally, and at 1.0' (300 mm) interval vertically.								This item is to be executed only under the written permission of the Superintending Engineer.
	i) 1:3	100Sft.	1846.90	9850.35	sq.m	198.75	1059.90		
	ii) 1:4	ditto	1846.90	9552.15	ditto	198.75	1027.80		
33	Chamfering sides of head regulators and masonry walls to increase width.	Per Sft.	52.45	--	sq.m	564.35	-		
34	Replacing kallar eaten bricks	Each No.	40.15	47.65	Each	40.15	47.65		
35	Repairing corners of bridges and other hydraulic masonry works	Each No.	262.25	339.00	Each	262.25	339.00		
36	Extra labour for drains of bath rooms, etc.	Per Lft.	20.90	--	Metre	68.55			
37	Maroo corners	Each Corner	133.90	--	Each Corner	133.90			Payable in addition to brick work

Finance Department



## 8. STONE MASONRY

- 1 The composite rates do not include the carriage of stone or spawl which will be paid separately by road and/or rail whichever means of transport is adopted. The supply and carriage to site of work of all other materials is included in the composite rates.
- 2 The payment of carriage of stone or spawl will be made on the basis of the actual stack measurement (without any reduction factor) of the stone or spawl carried.
- 3 Where the stone or spawl is issued from stock and the contractor is paid for its carriage and/or labour only; or where the stone or spawl is supplied, carried or handled by the contractor in which no laying is required, the actual stack measurement (without any reduction factor) shall form the basis of the payment of supply or carriage of stone or spawl. The quantity of finished and completed item of work shall form the basis of laying.
- 4 Rates for all finished work include the removal of surplus debris, unused material and byproducts.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Random, rubble masonry (uncoursed), in foundation and plinth:							22.10, 22.11	
	a) dry masonry	100 Cft.	3883.45	4687.45	cu.m	1371.65	1655.60		
	b) in mud mortar	100 Cft.	4859.90	5834.00	cu.m	1716.50	2060.55		
	c) in lime, sand mortar 1:2	100 Cft.	7409.80	10294.60	cu.m	2617.15	3636.05		
	d) in cement, sand mortar								
	i) ratio 1:3	100 Cft.	7409.80	14507.50	cu.m	2617.15	5124.05		
	ii) ratio 1:4	100 Cft.	7409.80	13389.20	cu.m	2617.15	4729.05		
	iii) ratio 1:6	100 Cft.	7409.80	12109.20	cu.m	2617.15	4276.95		
	iv) ratio 1:8	100 Cft.	7409.80	11401.00	cu.m	2617.15	4026.85		
2	Coursed rubble masonry hammer dressed, in foundation and plinth:							22.8	
	a) dry masonry	100 Cft.	4720.30	5524.30	cu.m	1667.20	1951.20		
	b) in mud mortar	100 Cft.	6673.25	7647.35	cu.m	2357.00	2701.05		
	c) in lime, sand mortar 1:2	100 Cft.	8227.25	10880.10	cu.m	2905.85	3842.85		
	d) in cement, sand mortar:								
	i) ratio 1:3	100 Cft.	8227.25	14913.65	cu.m	2905.85	5267.50		
	ii) ratio 1:4	100 Cft.	8227.25	13919.55	cu.m	2905.85	4916.40		
	iii) ratio 1:6	100 Cft.	8227.25	12781.20	cu.m	2905.85	4514.30		
	iv) ratio 1:8	100 Cft.	8227.25	12155.85	cu.m	2905.85	4293.45		
3	Random rubble masonry (uncoursed) in ground floor or 20 ft.(6 m) height, building/other than building.							22.10	
	a) dry masonry	100 Cft.	4301.90	5105.90	cu.m	1519.45	1803.40		
	b) in mud mortar	100 Cft.	5836.40	6810.50	cu.m	2061.40	2405.45		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	c) in lime, sand mortar 1:2	100 Cft.	8018.00	10902.80	cu.m	2831.95	3850.85		
	d) in cement, sand mortar:								
	i) ratio 1:3	100 Cft.	8018.00	15115.70	cu.m	2831.95	5338.85		
	ii) ratio 1:4	100 Cft.	8018.00	13997.35	cu.m	2831.95	4943.85		
	iii) ratio 1:6	100 Cft.	8018.00	12717.40	cu.m	2831.95	4491.80		
	iv) ratio 1:8	100 Cft.	8018.00	12009.20	cu.m	2831.95	4241.65		
4	Coursed rubble masonry hammer dressed, in ground floor or 20 ft. (6 m) height, building/other than building.							22.8	
	a) dry masonry	100 Cft.	5507.05	6311.05	cu.m	1945.10	2229.05		
	b) in mud mortar	100 Cft.	8246.70	9213.25	cu.m	2912.75	3254.10		
	c) in lime, sand mortar 1:2	100 Cft.	9223.15	11876.05	cu.m	3257.60	4194.60		
	d) in cement, sand mortar:								
	i) ratio 1:3	100 Cft.	9223.15	15909.55	cu.m	3257.60	5619.25		
	ii) ratio 1:4	100 Cft.	9223.15	14915.50	cu.m	3257.60	5268.15		
	iii) ratio 1:6	100 Cft.	9223.15	13777.15	cu.m	3257.60	4866.10		
	iv) ratio 1:8	100 Cft.	9223.15	13151.80	cu.m	3257.60	4645.20		
5	Ashlar block in course or scabbled masonry (including dressing, etc.) in ground floor or 20 ft. (6 m) height, building/other than building.							22.5 & 22.6	
	a) in lime, sand mortar 1:2	100 Cft.	23925.00	26463.75	cu.m	8450.30	9347.00		
	b) in cement, sand mortar:								
	i) ratio 1:3	100 Cft.	23925.00	29272.60	cu.m	8450.30	10339.10		
	ii) ratio 1:4	100 Cft.	23925.00	28527.05	cu.m	8450.30	10075.75		
	iii) ratio 1:6	100 Cft.	23925.00	27682.05	cu.m	8450.30	9777.30		
6	Ashlar fine masonry (including dressing, etc.) in ground floor or 20 ft. 6 m) height, building/other than building.							22.3 (A) to (C) & 22.4	
	a) in lime, sand mortar 1:2	100 Cft.	42486.85	44776.15	cu.m	15006.35	15814.95		
	b) in cement, sand mortar:								
	i) ratio 1:3	100 Cft.	42486.85	46180.55	cu.m	15006.35	16310.95		
	ii) ratio 1:4	100 Cft.	42486.85	45807.30	cu.m	15006.35	16179.15		
	iii) ratio 1:6	100 Cft.	42486.85	45393.55	cu.m	15006.35	16033.00		
7	Extra labour on items 3, 4, 5 & 6 above for work in:-								
	i) first floor	100 Cft.	1063.30	-	cu.m	375.55	-		
	ii) second floor	100 Cft.	2335.45	-	cu.m	824.90	-		
	iii) third floor	100 Cft.	3637.10	-	cu.m	1284.60	-		
	iv) fourth floor	100 Cft.	5710.00	-	cu.m	2016.75	-		
8	Extra labour on items 3,4,5 & 6 above for every 5 ft.(1.5 m) additional height, other than building, or part thereof.	100 Cft.	924.00	-	cu.m	326.35	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
9	Extra labour for arch work in stone masonry, including centering and decentring, etc.	100 Cft.	2558.25	-	cu.m	903.55	-	22.12	
10	Extra labour for:-							22.7	
	a) coping and caps, etc.	100 Cft.	12051.05	-	cu.m	4256.45	-		
	b) cornice & string course	100 Rft.	12051.05	-	Rm.	395.25	-		
11	Dressing stones:-							22.2	
	a) hammer dressed	100 Sft.	4820.65	-	sq.m	518.70			i) This rate of dressing shall be paid only when the supply of undressed stone is made. ii) In case of masonry, dressing is already included and this rate shall not be added thereto. iii) Only dressed surface of stone shall be measured.
	b) rough tooled dressed	100 Sft.	9052.05	-	sq.m	974.00			
	c) chisel dressed	100 Sft.	10980.30	-	sq.m	1181.50			
	d) fine dressed	100 Sft.	22361.85	-	sq.m	2406.15			
12	Dhajji walling 5"x5" (125 mmx125 mm) thick deodar framing with stone laid in 1:6 cement sand mortar, and 1:4 cement sand plaster on both sides.	100 Sft.	9563.80	15450.85	sq.m	1029.05	1662.50	22.13	
13	Providing and fixing stone blocks from 2 Cft. (0.6 cu.m) to 6 Cft (0.17 cu.m). each including lift upto 20 ft. (6 m)	Per Cft.	445.70	475.85	cu.m	15742.10	16807.00		
14	Providing and fixing stone blocks, under 2 Cft. (06 cu.m) each including lift upto 20 ft. (6 m)	Per Cft.	251.10	284.25	cu.m	8868.85	10039.70		

## 9. ROOFING

Rates for all finished works include the removal of surplus debris unused material and byproducts.

### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	First class tile roofing, consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leeping over ½" (13 mm) thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq,m hot bitumen coating sand blinded, provided over 2 layers of tiles 12"x6"x1¼" (300x150x30 mm) laid in 1:6 cement mortar with ½" (13 mm) thick sand wiched layer of 1:6 cement mortar, including 1:2 cement pointing underside of tiles, complete, including curing, etc.	100Sft.	6738.20	11700.00	sq.m	725.05	1258.90	23.1	Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub- sequent floors, respectively.
2	Second class tile roofing consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leeping over ½" (13 mm) thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq,m of hot bitumen coating sand blinded, provided over one layer of 12"x6"x2" (300x150x50 mm) tiles laid in 1:6 cement mortar, including 1:2 cement pointing underneath of tiles complete including curing, etc.	100Sft.	5227.20	8692.80	sq.m	562.45	935.35	23.2	ditto
3	Covering mud roof with coal tar, and fine sand.	100Sft.	284.55	828.70	sq.m	30.60	89.15	23.1 to 23.2	ditto
4	Filling spaces in between:-								
	a) Wooden battens over beams, filled with deodar wood pieces (spacers).	100Sft.	524.50	2522.00	sq.m	56.45	271.35		Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub- sequent floors, respectively.
	b) RCC battens, filled with CC block 1:3:6.	-ditto-	999.90	1386.25		107.60	149.15		
	c) Spaces filled with bricks.	-ditto-	274.70	814.15		29.55	87.60		
5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq,m bitumen coating sand blinded.	100Sft.	1637.85	6022.90	sq.m	176.25	648.05	23.1	ditto
6	Jack arch roofing 4½" (113 mm) thick laid in 1:5 cement mortar, including an average depth of 4" (100 mm) cement concrete in haunches and over crown, with 3" (75 mm) earth and 1" (25 mm) plaster, soffits of arches cement plaster 1:6 and ½" (13 mm) thick. The rate also includes bitumen coating, centring, laying skew bricks in cement mortar (1:3), and encasing exposed flanges of the joints with fine cement concrete 1:2:4 using stone aggregate:-							23.3 to 23.5	For steel part and its erection etc. items 10 & 14 under Chapter IRON WORK be referred.  Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub- sequent floors, respectively.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	a) cement concrete in haunches 1:6:12.	100Sft.	7409.95	17757.35	sq.m	797.30	1910.70		
	b) cement concrete in haunches 1:3:6.	ditto	7409.95	19051.80	ditto	797.30	2049.95		
7	Jack arch roofing 4½" (113 mm) thick laid in 1:5 cement mortar, including an average depth of 4" (100 mm) cement concrete in haunches and over crown, with ½" (13 mm) cement plaster 1:6 on top (except earth filling mud plaster and gobi) soffit of arches cement plastered. The rate also includes bitumen coating, centring, laying skew bricks in cement sand mortar (1:3), and encasing exposed flanges of the joints with fine cement concrete 1:2:4 using stone aggregate:-							23.3 to 23.5	For steel part and its erection etc. items 10 & 14 under Chapter IRON WORK be referred.  Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub-sequent floors, respectively.
	a) cement concrete in haunches 1:6:12.	100Sft.	6023.95	17146.55	sq.m	648.20	1844.95		
	b) cement concrete in haunches 1:3:6.	ditto	6023.95	17493.60	ditto	648.20	1882.30		
8	Extra for vaulted jack arch roofing.	100Sft.	1339.00		sq.m	144.10	-		ditto
9	Jack arch roofing of shingle and cement concrete 1:3:6, 4½" (113 mm) thick at crown, with ½" (13 mm) cement plaster including cost of supplying, erecting and dismantling centring.	100Sft.	8643.35	16874.95	sq.m	930.05	1815.75	23.3 to 23.5	ditto
10	Earth filling over roof including watering, ramming with 1" (25 mm) mud plaster finished, with gobi leeping:							23.1 to 23.3	Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub-sequent floors, respectively.
	a) 3" (75 mm) thick earth filling and 1" (25 mm) mud plaster	100Sft.	742.45	974.60	sq.m	79.90	104.85		
	b) 4" (100 mm) thick earth filling and 1" (25mm) mud plaster	100Sft.	973.60	1243.55	sq.m	104.75	133.80		
11	1/8" (3 mm) thick gobi leeping on roofs or floors.	100Sft.	97.30	109.85	sq.m	10.45	11.80	ditto	ditto
12	Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m)	100Sft.	589.25	1620.80	sq.m	63.40	174.40	23.1	
13	Providing & Fixing corrugated galvanized iron sheets with G.I. bolts, nuts, limpet and bitumen washers, wind ties, complete in all respects without valleys and ridges:-							23.7	Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub-sequent floors, respectively, on items 13 to 18.
	a) 20 BWG	100Sft.	1048.95	13775.85	sq.m	112.85	1482.3		
	b) 22 BWG	100Sft.	1048.95	11823.6	sq.m	112.85	1272.2		
	c) 24 BWG	100Sft.	1048.95	9628.8	sq.m	112.85	1036.05		
14	Khassi panalass in cement, sand mortar 1:2, 12" (300	Rft.	74.85	97.35	Metre	245.50	319.30	23.10	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
15	mm) outside width finished smooth with a floating coat of neat cement. Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	282.10	466.85	Each	Each	466.85	23.10	
16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	282.10	830.00	Each	282.10	830.00	23.10	
17	Plain galvanized iron sheets 22 SWG rain water down pipe including clamp and fixing in position.								
	a) 4" (100 mm) diameter down pipe	Per Rft.	57.85	159.55	Metre	189.75	523.30		
	b) 5" (125 mm) diameter down pipe	Per Rft.	57.85	181.15	Metre	189.75	594.15		
18	Plain galvanized iron sheet flashing, 22 gauge.	Per Sft.	57.85	132.25	sq.m	622.45	1423.00	23.11	
19	Providing and fixing 1/16" (1.5 mm) thick lead flashing over roof expansion joint complete in all respects.	Per Sft.	16.75	83.15	Sq.m	180.25	894.70		
20	Cast iron rain water downpipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:-								Add extra 13%, 32% & 51% on labour rates only or 6%, 15% & 23% on composite rates for 2nd, 3rd, 4th & sub-sequent floors, respectively, on items 19 to 24
	a) 4" dia (100 mm) cast iron down pipe.	Per Rft.	52.45	215.25	Metre	172.05	706.00		
	b) 3" (75 mm) cast iron down pipe.	Per Rft.	52.45	191.25	Metre	172.05	627.30		
21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	Each	216.95	524.60	Each	216.95	524.60		
22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	Each	78.65	320.95	Each	78.65	320.95		
23	Plain GI sheet iron spouts fixed in position, including painting.	Each	241.05	359.45	Each	241.05	359.45	23.10	
24	Laying ½" (13 mm) thick deodar ceiling complete, including sawing, planing and fixing.	100Sft.	5557.20	20951.50	sq.m	597.95	2254.40	26.1	
25	Flat sheet roof with galvanized iron plain sheets, including battens, rolls, screws, clips etc. (Planking to be paid for separately):-								
	a) 22 BWG sheets roofing	100Sft.	3357.80	15383.20	sq.m	361.30	1655.25	23.60	
	b) 24 BWG sheets roofing	100Sft.	3357.80	13924.30	sq.m	361.30	1498.25		
26	Asbestos cement corrugated sheet roofing including necessary overlaps, and GI hook bolts, nuts, screws, washers and bitumen washers, etc. (excluding valleys and	100Sft.	2310.00	6216.60	sq.m	248.55	668.90	23.8	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ridges, etc).								
27	Extra labour for erection of GI sheets, flat sheet or asbestos sheet roofing, above 20' (6.10 m) height in difficult position, including lifting with care and special scaffolding along live electric wires.	100Sft.	279.00	--	sq.m	30.00	-	23.6	
28	Fixing asbestos cement sheet ridges and valleys ¼" (6 mm) thick.	Per Rft.	27.30	76.70	Metre	89.55	251.60	23.8	
29	Plain galvanized iron sheet ridging, including fixture, timber for ridge roll and ridge sheeting:-							23.6	
	a) 6" (150 mm) lap and 18" (450 mm) overall, of 22 gauge G.I sheet ridging.	Per Rft.	72.30	413.10	Per Metre	237.15	1354.95		
	b) 9" (225 mm) lap and 24" (600 mm) overall, of 24 gauge G.I sheet ridging.	Per Rft.	94.40	410.00	Per Metre	309.65	1344.80		
	c) 12" (300 mm) lap and 30" (750 mm) overall, of 22 gauge G.I sheet ridging.	Per Rft.	94.40	472.40	Per Metre	309.65	1549.45		
30	Plain 22 gauge G.I sheet gutter semi circular 8" (200 mm) dia meter.	Per Rft.	47.20	162.40	Per Metre	154.80	532.65	23.11	
31	Making masonry ventilators in cement, sand mortar 1:4	Each	1048.95	1615.60	Each	1048.95	1615.60		
32	Fixing water spouts or parnalas.	Each	314.70	--	Each	314.70	-	23.10	
33	Making drip course 2"x½" (50x13 mm) under RCC slab edges in outer opening, in cement, sand mortar 1:2.	Per Rft.	13.50	14.85	Metre	44.30	48.70		
34	Supplying and laying of twin G.I sheet 20 SWG duly painted with bitumen, with polythene film in between 300 gauge, to provide a sliding joint under the bearing of the beams, including 3" (75 mm) long, 3/8" (10 mm) dia bar to act as holdfast on wall and beam.	Per Sft.	39.55	280.50	sq.m	425.55	3018.20		
35	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:-								
	i) Thermopore sheet ½" (13 mm) thick	100Sft.	2530.45	7064.15	sq.m	272.30	760.10		
	ii) Thermopore sheet ¾" (20 mm) thick	100Sft.	2530.45	7190.15	sq.m	272.30	773.65		
	iii) Thermopore sheet 1" (25 mm) thick	100Sft.	2534.60	7320.35	sq.m	272.70	787.65		
36	Providing and fixing AC rain water down pipe 4" (100 mm)	Rft.	15.75	299.50	Metre	51.65	982.35		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	dia, with shoe, T-bend, clamp, etc.								
37	Making jharries in existing brick masonry for providing recesses for bearing of RCC roof slab, including repairing the damaged face:-							Rate will be increased by 1.5 time for stone masonry or plain; concrete; and 2 times for reinforced cement concrete.	
	i) for slabs upto 6" (150 mm) thick	Rft.	16.75	18.75	Metre	54.95	61.50		
	ii) for slabs exceeding 6" to 12" (150 to 300 mm) thick.	Rft.	28.80	32.45	Metre	94.45	106.45		
38	Making recess in existing brick masonry for bearing of beam, girder, R.S. Joist, etc. including repairing damaged face:-							Rates will be increased by 1.5 times for stone masonry and plain cement concrete and two times for reinforced cement concrete.	
	i) upto 1.0' (300 mm) height of girder or beam.	Each	69.75	76.40	Each	69.75	76.40		
	ii) for every 6" (150 mm) additional height or part thereof.	Each	33.50	36.70	Each	33.50	36.70		
39	Hoisting RS. Beams and wooden beams and placing in position.	Each	304.65	-	Each	304.65	-		
40	Hoisting and placing in position sahl ballies, over roof.	Each	44.95	-	Each	44.95	-		
41	Hoisting precast R.C.C/prestressed concrete battens and placing in position.								
	a) 5' to 6' (1.50 to 1.83 m) long	Each	43.50	-	Each	43.50	-		
	b) 6' to 7' (1.83 to 2.13 m) long	Each	60.95	-	Each	60.95	-		
	c) 7' to 8' (2.13 to 2.44 m) long	Each	76.15	-	Each	76.15	-		
	d) 8' to 9' (2.44 to 2.74 m) long	Each	101.55	-	Each	101.55	-		
	e) above 9' (2.74 m) length	Each	121.85	-	Each	121.85	-		
42	Hoisting and placing in position R.C. trough:							Applicable only to roof trough (inverted tees & trough) for height of 1st storey only.	
	a) upto 10' (3 m) in length	Each	121.85	-	Each	121.85	-		
	b) 10' to 11' (3 to 3.36 m) in length	ditto	152.35	-	ditto	152.35	-		
	c) 11' to 12' (3.36 to 3.66 m) in length	ditto	203.10	-	ditto	203.10	-		
	d) 12' to 13' (3.66 to 3.96 m) in length	ditto	234.35	-	ditto	234.35	-		
	e) 13' to 14' (3.96 to 4.26 m) in length	ditto	253.90	-	ditto	253.90	-		
	f) 14' to 15' (4.26 to 4.57 m) in length	ditto	276.95	-	ditto	276.95	-		
	g) 15' to 16' (4.57 to 4.88 m) in length	ditto	304.65	-	ditto	304.65	-		
	h) 16' to 17' (4.88 to 5.19 m) in length	ditto	338.50	-	ditto	338.50	-		
	i) 17' to 18' (5.19 to 5.49 m) in length	ditto	435.20	-	ditto	435.20	-		
	j) 18' to 19' (5.49 to 5.80 m) in length	ditto	468.70	-	ditto	468.70	-		
	k) 19' to 20' (5.80 to 6.10 m) in length	ditto	507.75	-	ditto	507.75	-		
43	Hoisting and placing in position R.C. inverted battens:-								
	i) upto 10' (3.05 m) span	Each	94.60	-	Each	94.60	-		
	ii) from 10' to 12' (3.05 to 3.66 m) span	ditto	210.15	-	ditto	210.15	-		
	iii) from 12' to 13' (3.66 to 3.96 m) span	ditto	252.20	-	ditto	252.20	-		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iv) from 13' to 14' (3.96 to 4.26 m) span	ditto	315.25	-	ditto	315.25	-		
	v) from 14' to 15' (4.26 to 4.57 m) span	ditto	343.90	-	ditto	343.90	-		
	vi) from 15' to 16' (4.57 to 4.88 m) span	ditto	378.30	-	ditto	378.30	-		
	vii) from 16' to 18' (4.88 to 5.49 m) span	ditto	472.90	-	ditto	472.90	-		
	viii) from 18' to 20' (5.49 to 6.10 m) span	ditto	756.60	-	ditto	756.60	-		
44	Reinforced cement concrete spout, including fixing in position, with top and bottom Khurras.	Each	419.60	696.60	Each	419.60	696.60		
45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position complete in all respect.								
	a) 1" thick	% Sft	379.50	5,545.50	P.Sqm	40.85	596.70		
	b) 1-1/2" thick	% Sft	379.50	8,191.50	P.Sqm	40.85	881.40		
	c) 2" thick	% Sft	379.50	10,585.50	P.Sqm	40.85	1,139.00		

*Finance Department*

# 10. FLOORING

Rates for all finished works include the removal of surplus debris, unused material and byproducts

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Laying Murum flooring, consisting of 1" (25 mm) layer of fine powdery or flakey variety of Murum, laid over 6" (150 mm) good hard layer of Murum spreaded over 9" (225 mm) thick sub-base comprising of hand packed rubble or broken bricks properly watered and rammed, provided over well rammed earth.	100 Sft.	3007.60	4277.00	sq.m	323.60	460.20		
2	Earth flooring, consisting of 6" (150 mm) thick consolidated layer of moistened earth, including ramming.	100 Sft.	1030.90	1219.90	sq.m	110.95	131.25	24.1	
3	Providing, laying, watering and ramming brick ballast 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	100 Cft.	2359.25	4129.25	cum.	833.30	1458.45		
4	Mud flooring, consisting of 6" (150 mm) thick consolidated layer of moistened earth and finished off with 1" (25 mm) mud plaster and gobi leeping.	100 Sft.	1872.10	2197.90	sq.m	201.45	236.50	24.2	
5	Dry brick paving laid flat, sand grouted, including preparation of bed by watering, ramming and bringing the same to proper camber, by ½" (13 mm) thick mud plaster.	100 Sft.	954.35	4163.05	sq.m	102.70	447.95	24.12	
6	Dry brick on edge paving, sand grouted, including preparation of bed by watering, ramming & bringing the same to proper camber, by ½" (13 mm) thick mud plaster.	100 Sft.	1726.25	6504.55	sq.m	185.75	699.90	24.12	
7	Grouting 4½" (113 mm) dry brick work with cement mortar ratio 1: 5	100 Sft.	933.00	1451.75	sq.m	100.40	156.20		
8	Flat brick flooring laid in 1:6 cement mortar, over a bed of ¾" (20 mm) thick cement mortar, 1:6.	100 Sft.	1689.60	5786.65	sq.m	181.80	622.65	24.4	
9	Brick on edge flooring, laid in 1:6 cement mortar, over a bed of ¾" (20 mm) thick cement mortar 1:6.	100 Sft.	2,151.60	8,125.00	sq.m	231.50	874.25	24.4	
10	Brick tiles (12"x6"x2") (300x150x50mm) laid in 1:6 cement mortar, over a bed of ¾" (20 mm) thick cement mortar 1:6.	100 Sft.	2,112.00	4,252.10	sq.m	227.25	457.55	ditto	
11	Brick ties (9"x4½"x1½")(225 mm x 113 mm x 40 mm) laid flat in 1:3 cement mortar, over a bed of ¾" (20 mm) thick cement mortar 1:6.	100 Sft.	2,321.20	6,051.55	sq.m	249.75	651.15	24.4	
12	Cement tiles (8"x8"x¾")(200 x 200 x 20 mm) laid flat in 1:2 cement mortar, over ¾" (20 mm) thick bed of cement	100 Sft.	1,388.65	6,404.25	sq.m	149.40	689.10	24.7	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
13	mortar 1:2. Cement concrete tiles laid in 1:2 cement mortar, over 3/4" (20 mm) thick bed of cement mortar 1:2:-  (a) 12"x12"x1" (300 x 300 x 25 mm) (b) 9"x9"x3/4" (225 x 225 x 20 mm) (c) 6"x6"x3/4" (150 x 150 x 20 mm)	100 Sft. ditto ditto	1,388.65 1,388.65 1,388.65	4,536.95 5,778.20 8,224.10	sq.m ditto ditto	149.40 149.40 149.40	488.20 621.75 884.90	24.8	
14	Coloured cement tiles (8"x8"x3/4")(200 x 200 x 20 mm) of approved dark shade laid flat in 1:2 cement mortar, over 3/4" (20 mm) bedding mortar of 1:2.	100 Sft.	1,388.65	6,433.80	sq.m	149.40	692.30	24.7	
15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:-  (a) 1" (25 mm) thick (b) 1 1/4" (30 mm) thick (c) 1 1/2" (40 mm) thick (d) 1 3/4" (45 mm) thick (e) 2" (50 mm) thick (f) 2 1/4" (56 mm) thick (g) 2 1/2" (62 mm) thick (h) 2 3/4" (70 mm) thick (i) 3" (75 mm) thick	100 Sft. ditto ditto ditto ditto ditto ditto ditto ditto	1,490.30 1,490.30 1,896.50 1,896.50 2,302.75 2,376.40 2,708.95 2,708.95 2,708.95	2,754.40 3,034.85 3,721.50 4,015.45 4,768.55 5,104.15 5,619.60 6,008.85 6,335.00	sq.m ditto ditto ditto ditto ditto ditto ditto ditto	160.35 160.35 204.05 204.05 247.80 255.70 291.50 291.50 291.50	296.35 326.55 400.45 432.05 513.10 549.20 604.65 646.55 681.65	24.9	If glass or marble strips are used for panelling, it will be paid extra as per item No. 41 or 42.
16	Providing and laying conglomerate flooring (two coat work) with top layer of 1/2" (13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16" (6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:-  (a) 1 1/2" (40 mm) thick (b) 1 3/4" (45 mm) thick (c) 2" (50 mm) thick	100 Sft. ditto ditto	2,210.60 2,210.60 2,826.05	3,989.70 4,176.85 5,077.15	sq.m ditto ditto	237.85 237.85 304.10	429.30 449.45 546.30	24.10	If glass or marble strips are used for panelling, it will be paid extra as per item No. 41 or 42.
17	Add extra in cement concrete floor topping, if finished with pigment and polishing.	100 Sft.	524.50	1,043.65	sq.m	56.45	112.30		
18	Extra labour for each storey above ground, for mosaic, conglomerate, tiles, stone and wooden floor.	100 Sft	441.95	-	sq.m	47.55	-		On items 19-25 & 29-34
19	Flag stone flooring in lime mortar 1:2, over 3/4" (20 mm) bedding mortar, in platforms and floors, etc.  (a) 2" (50 mm) thick (b) 3" (75 mm) thick	100 Sft. ditto	4,550.30 4,550.30	6,225.50 6,470.90	sq.m ditto	489.60 489.60	669.85 696.25	24.5	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
20	Asphalt flooring , including preparation of proper base remelting, setting out, and finishing complete:-  (a) 1"(25 mm) thick topping (b) ½"(13 mm) thick topping (c) ¼"(6 mm) thick topping	100 Sft. ditto ditto	1,891.55 1,481.45 1,088.05	11,123.30 6,205.90 3,553.00	sq.m ditto ditto	203.55 159.40 117.05	1196.85 667.75 382.30	24.10	
21	1 <sup>3</sup> / <sub>8</sub> "(35 mm) thick mosaic flooring, consisting of 3/8"(10 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick flooring of 1:2:4 cement concrete including rubbing and polishing complete :-  (a) using grey cement (b) using white cement	100 Sft. ditto	6,735.95 6,735.95	9,426.00 9,895.30	sq.m ditto	724.80 724.80	1014.25 1064.75		If glass or marble strips are used for panelling, it will be paid extra as per item No. 41 or 42.
22	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-  (a) using grey cement (b) using white cement	100 Sft. ditto	6,735.95 6,735.95	9,622.00 10,514.90	sq.m ditto	724.80 724.80	1035.35 1131.40		If glass or marble strips are used for panelling, it will be paid extra as per item No. 41 or 42.
23	Providing and laying floor of mosaic marble chips tiles 1"(25 mm) thick of approved quality and shade, laid in white cement and pigment, over ¾"(20 mm) thick bedding of cement sand mortar 1:2, including finishing and polishing, complete.	100 Sft.	3,860.30	8,039.10	sq.m	415.35	865.00	24.8	
24	Laying floor of approved white glazed tile ¼" (6 mm) thick in white cement 1:2 over ¾" (20mm) thick cement mortar 1:2, complete.	100 Sft.	4,999.50	12,626.75	sq.m	537.95	1358.65	24.7	
25	Laying floor of approved coloured glazed tiles ¼" (6 mm) thick, laid in white cement and pigment on a bed of ¾" (20 mm) thick cement mortar 1:2.	100 Sft.	4,999.50	14,183.05	sq.m	537.95	1526.10	ditto	
26	Rubbing and polishing old grit/ mosaic floor, including repairing voids, uneven surface, complete in all respects.	100 Sft.	1,410.55	1,544.25	sq.m	151.80	166.15		The composite rate will be reduced by Rs. 150.00 per % Sft or Rs.13.95 per Sq. metre respectively, if no polishing is done.
27	Rubbing and polishing grit floor, including repairing voids, uneven surface, complete in all respects	100 Sft.	1,501.65	1,638.05	sq.m	161.60	176.25		The composite rate will be reduced by Rs. 150.00 per % Sft or Rs.13.95 per Sq. metre respectively, if no polishing is done.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
28	Cleaning and washing mosaic or marble floor with caustic soda mixture.	100 Sft.	200.20	245.75	sq.m	21.55	26.45	24.6	
29	Shisham wood boarding or strip flooring 3/4" (20mm) thick (sawn to required size) tongued and grooved or splayed rebated fixed with brass screws on deodar wood battens 1½"x2" (40 x 50 mm), size placed at 12" (300 mm) centre to centre, including two coats of bitumen laid hot on the base.	100 Sft.	4,184.40	37,433.55	sq.m	450.25	4027.85	24.13	
30	Deodar wood boarding or strip flooring 3/4" (20 mm) thick (sawn to required size) tongued and grooved or splayed rebated fixed with brass screws on deodar wood battens 1½"x2" (40 x 50 mm) size, placed at 12" (300 mm) centre to centre including two coats of bitumen laid hot on the base.	100 Sft.	4,720.30	45,957.40	sq.m	507.90	4945.00	ditto	
31	Teak wood boarding or strip flooring ½" (13 mm) "thick (sawn to required size) to tongued and grooved screwed on deodar wood battens 1½" x2" (40 x 50 mm) size, placed at 12" (300 mm) centre to centre, including 2 coats of bitumen laid hot on base.	100 Sft.	4,017.20	48,639.50	sq.m	432.25	5233.60	ditto	
32	Shisham wood block flooring 1" (25 mm) thick cut to required size, fixed on a layer of asphalt bitumen laid on base.	100 Sft.	4,352.05	41,147.15	sq.m	468.30	4427.45	24.13	
33	Teak wood block 1" (25 mm) thick cut to required size, fixed on a layer of asphalt bitumen laid on base.	100 Sft.	4,017.20	79,528.40	sq.m	432.25	8557.25	ditto	
34	Laying wooden paving of hard wood on edge in coal tar and asphalt:-	100 Sft.			sq.m			ditto	
	(a) Shisham wood	Per Inch thickness	2,588.95	25,645.20	per cm thickness	278.55	2759.40		
	(b) Kikar wood	ditto	2,588.95	14,273.70	ditto	278.55	1535.85		
35	Tile skirting laid in 1:2 cement mortar, over ¾" (20 mm) thick cement mortar, 1:2 including cement washing and filling joints complete:-	100 Sft.	2,270.00	7,721.85	sq.m	244.25	830.85		
	(a) cement tiles	ditto	3,704.90	11,105.60	ditto	398.65	1194.95		
	(b) mosaic tiles								
36	Providing grey cement skirting or dado 3/8" (10 mm) thick including rounding of corner and straight ening of top edge and finishing to smooth surface after plastering :-	100 Sft.	2,764.10	3,418.25	sq.m	297.40	367.80		
	(a) 1:2 cement, sand mortar								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	(b) 1:3 cement, sand mortar	ditto	2,764.10	3,226.80	ditto	297.40	347.20		
	(c) Extra if skirting or dado is finished with pigment of any colour.	ditto	184.15	451.80	ditto	19.80	48.60		
37	White glazed tile (6"x6"x1/4") (6 mm) thick dado jointed in white cement and laid over 1:2 cement sand mortar 3/4" (20mm) thick, including finishing.	100 Sft.	6,154.50	13,781.75	sq.m	662.20	1482.90	24.7	
38	Coloured glazed tile dado (6"x6"x1/4") (6mm) thick in pigment over 1:2 cement, sand mortar 3/4"(20mm) thick, including finishing.	100 Sft.	6,154.50	15,320.15	sq.m	662.20	1648.45	ditto	
39	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1/2" (13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:								
	(a) using grey cement:								
	i) 3/8" (10 mm) thick	100 Sft.	8,090.30	9,495.60	sq.m	870.50	1021.75		
	ii) 1/2" (13 mm) thick	ditto	8,090.30	10,375.95	ditto	870.50	1116.45		
	(b) using white cement :								
	i) 3/8" (10 mm) thick	100 Sft.	8,090.30	10,618.95	sq.m	870.50	1142.60		
	ii) 1/2" (13 mm) thick	ditto	8,090.30	11,009.90	ditto	870.50	1184.65		
40	Rubber flooring, consisting of 12"x12"x1/8" (300x300x3mm) rubber tiles, laid on firm foundation.	Per Sft.	19.40	82.30	sq.m	208.75	885.55	24.14	The cost of base for rubber flooring is not included in the rate and is payable separately.
41	Providing and fixing glass strip 5mm thick and 1 1/2" (40 mm) wide, for dividing the mosaic flooring into panels.	Per Rft.	-	4.20	Metre	-	13.80		Labour for fixing already included in items No. 15, 16, 21 and 22 of this Chapter.
42	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels								
	a) Size 1 1/2" x 3/8" (40 x 10 mm)	Per Rft.	-	6.60	Metre	-	21.65		
	b) Size 1 1/2" x 1/4" (40 x 6 mm)	ditto	-	4.60	ditto	-	15.10		
43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. <b>(50% Grey / 50% Coloured)</b>								
	a) 50-mm thick	P.Sft	13.50	85.40	Sq.m	145.05	918.70		
	b) 60-mm thick	P.Sft	13.50	96.45	Sq.m	145.05	1,037.90		
	c) 80-mm thick	P.Sft	13.50	119.80	Sq.m	145.05	1,289.00		

# 11. SURFACE RENDERING

- 1 PLASTERING, POINTING, WHITE WASHING, COLOUR WASHING AND DISTEMPERING, ETC.  
 2 Rates for all finished works include the removal of surplus debris, unused material and byproducts.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Mud plaster on walls (excluding Gobri leeping) upto 20' (6.00 m) height:-							25.7	
	a) ½" (13 mm) thick	100 Sft.	438.80	506.50	sq.m	47.20	54.50		
	b) 1" (25 mm) thick	ditto	618.35	753.70	ditto	66.55	81.10		
2	Mud plaster on floor or roof (excluding Gobri leeping):-							ditto	Add extra 13%, 32% and 51% above the labour rates only or 6%, 15% & 23% on the composite rates for 2nd, 3rd, 4th and subsequent floors, respectively.
	a) ½" (13 mm) thick	100 Sft.	395.95	463.65	sq.m	42.60	49.90		
	b) 1" (25 mm) thick	ditto	395.95	531.30	ditto	42.60	57.15		
3	Cement lime plaster 1:7:12 (cement, lime and sand) upto 20' (6.00 m) height.							25.1 to 25.6	
	a) ¼" (6 mm) thick	100 Sft.	1243.20	1420.55	sq.m	133.75	152.85		
	b) ½" (13 mm) thick	ditto	1243.20	1597.75	ditto	133.75	171.90		
4	Cement Neru plaster 1:2 (cement and sand) upto 20' (6.00 m) height:-							ditto	
	a) ¼" (6 mm) thick	100 Sft.	1243.20	1707.50	sq.m	133.75	183.75		
	b) ½" (13 mm) thick	ditto	1243.20	1988.45	ditto	133.75	213.95		
5	2" (50 mm) stucco cement plaster 1:2:4 (cement, sand and shingle) upto 20' (6.00 m) height.	100 Sft.	3208.65	6046.05	sq.m	345.25	650.55	ditto	
6	Providing and laying machine sprayed plaster ½" (13 mm) thick, using cement and chips zero gauge, over the existing plastered and roughened surface, upto 20' (6.00 m) height:-							ditto	
	i) ratio 1:1	100 Sft.	1053.60	2772.25	sq.m	113.35	298.30		
	ii) ratio 1:1½	ditto	1053.60	2656.00	ditto	113.35	285.80		
	iii) ratio 1:2	ditto	1053.60	2589.00	ditto	113.35	278.60		
7	Cement plaster 1:2 upto 20' (6.00 m) height:-							25.1 to 25.6	
	a) 3/8" (10 mm) thick	100 Sft.	1243.20	1897.35	sq.m	133.75	204.15		
	b) ½" (13 mm) thick	ditto	1243.20	2091.00	ditto	133.75	225.00		
	c) ¾" (20 mm) thick	ditto	1557.85	2866.20	ditto	167.65	308.40		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
8	Cement plaster 1:3 upto 20' (6.00 m) height:-							ditto	
	a) 3/8" (10 mm) thick	100 Sft.	1243.20	1705.90	sq.m	133.75	183.55		
	b) 1/2" (13 mm) thick	ditto	1243.20	1860.10	ditto	133.75	200.15		
	c) 3/4" (20 mm) thick	ditto	1557.85	2483.30	ditto	167.65	267.20		
9	Cement plaster 1:4 upto 20' (6.00 m) height:-							ditto	
	a) 3/8" (10 mm) thick	100 Sft.	1243.20	1655.25	sq.m	133.75	178.10		
	b) 1/2" (13 mm) thick	ditto	1243.20	1767.10	ditto	133.75	190.15		
	c) 3/4" (20 mm) thick	ditto	1557.85	2374.20	ditto	167.65	255.45		
10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height.							ditto	i) This item shall be applicable to buildings meant for human habitation only, such as buildings like residences, offices, educational institutions and hospitals, etc. It shall not be admissible on godowns; bins; agriculture, poultry and animal sheds; cycle stands; garrages; etc. ii) The thickness of the plaster will not be more than 3/8" (10 mm) thick.
	a) 1:2	100 Sft.	1410.55	2193.65	sq.m	151.80	236.05		
	b) 1:3	ditto	1410.55	2001.40	ditto	151.80	215.35		
	c) 1:4	ditto	1410.55	1950.75	ditto	151.80	209.90		
11	Cement plaster 1:5 upto 20' (6.00 mm) height:-							25.1 to 25.6	
	a) 3/8" (10 mm) thick	100 Sft.	1243.20	1610.40	sq.m	133.75	173.30		
	b) 1/2" (13 mm) thick	ditto	1243.20	1690.05	ditto	133.75	181.85		
	c) 3/4" (20 mm) thick	ditto	1557.85	2292.25	ditto	167.65	246.65		
12	Cement plaster 1:6 upto 20' (6.00 mm) height:-							ditto	
	a) 3/8" (10 mm) thick	100 Sft.	1243.20	1546.30	sq.m	133.75	166.40		
	b) 1/2" (13 mm) thick	ditto	1243.20	1645.20	ditto	133.75	177.00		
	c) 3/4" (20 mm) thick	ditto	1557.85	2164.10	ditto	167.65	232.85		
13	Applying floating coat of cement 1/32" (0.8 mm) thick.	100 Sft.	710.15	966.50	sq.m	76.40	104.00	25.4 to 25.6	
14	Lime pointing flush upto 20' (6.00 m) height including raking joints, in lime, sand mortar 1:2.	100 Sft.	928.50	1053.35	sq.m	99.90	113.35	25.8	
15	Lime pointing struck joints on walls, upto 20' (6.00 m) height, including raking joints in lime sand mortar 1:2.	100 Sft.	1410.55	1535.40	sq.m	151.80	165.20	ditto	
16	Cement pointing flush upto 20' (6.00 m) height:-							ditto	
	a) ratio 1:2	100 Sft.	1243.20	1732.65	sq.m	133.75	186.45		
	b) ratio 1:3	ditto	1243.20	1620.40	ditto	133.75	174.35		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
17	Cement pointing 1:2 flush on floor.	100 Sft.	928.50	1417.95	sq,m	99.90	152.55	ditto	
18	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-								
	a) ratio 1:2	100 Sft.	1410.55	1900.00	sq,m	151.80	204.45		
	b) ratio 1:3	ditto	1410.55	1787.80	ditto	151.80	192.35		
19	Pointing flush on stone work, upto 20' (6.00 m) height.							25.8	
	a) in lime mortar 1:2 (lime, sand)	100 Sft.	1115.95	1281.50	sq,m	120.10	137.90		
	b) in cement mortar 1:3	ditto	1115.95	1493.15	ditto	120.10	160.65		
	c) on stone work raised:-								
	i) in lime mortar 1:2	100 Sft.	2080.05	2245.60	sq,m	223.80	241.65		
	ii) in cement mortar 1:3	ditto	2080.05	2457.30	ditto	223.80	264.40		
20	Raking and washing joints of stone masonry (old work).	100 Sft.	669.50	-	sq,m	72.05	-	ditto	
21	Raking and washing joints of brick masonry (old work).	100 Sft.	334.75	-	sq,m	36.00	-	ditto	
22	Priming coat of chalk under distemper.	100 Sft.	125.90	133.50	sq,m	13.55	14.35	25.11	
23	Distemping:-							ditto	
	a) new surface:-								
	i) one coat	100 Sft.	134.15	215.30	sq,m	14.45	23.15		
	ii) two coats	ditto	198.40	304.20	ditto	21.35	32.75		
	iii) three coats	ditto	262.70	393.05	ditto	28.25	42.30		
	b) old surface:-								
	i) one coat	100 Sft.	122.95	179.55	sq,m	13.25	19.30		
	ii) two coats	ditto	198.40	255.00	ditto	21.35	27.45		
24	Colour washing:-							25.10	
	a) new surface:-								
	i) one coat	100 Sft.	115.70	144.40	sq,m	12.45	15.55		
	ii) two coats	ditto	173.55	215.45	ditto	18.65	23.20		
	b) old surface:-								
	i) one coat	100 Sft.	115.70	133.45	sq,m	12.45	14.35		
	ii) two coats	ditto	173.55	202.60	ditto	18.65	21.80		
25	White washing:-							25.9	
	a) new surface:-								
	i) one coat	100 Sft.	115.70	139.15	sq,m	12.45	14.95		
	ii) two coats	ditto	173.55	208.60	ditto	18.65	22.45		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iii) three coats	ditto	224.70	271.40	ditto	24.20	29.20		
	b) old surface:-								
	i) one coat	100 Sft.	115.70	133.25	sq.m	12.45	14.35		
	ii) two coats	ditto	173.55	202.75	ditto	18.65	21.80		
26	Gobri leeping:-							25.7	
	a) on walls	100 Sft.	136.85	140.40	sq.m	14.75	15.10		
	b) over roofs	ditto	116.75	120.30	ditto	12.55	12.95		
27	Striking joints of burnt bricks in lime or cement mortar.	100 Sft.	167.40	-	sq.m	18.00	-	25.8	Payable with fresh masonry, when the face of the work is not to be plastered/pointed.
28	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	100 Sft.	227.65	-	sq.m	24.50	-		
29	Caulking joints of sleeper wall, with sand and coaltar.	100 Sft.	629.40	967.45	sq.m	67.70	104.10		
30	Caulking joints of sleepers, withmud and chopped straw.	100 Sft.	629.40	649.90	sq.m	67.70	69.95		
31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft.	209.20	309.70	sq.m	22.50	33.30		
32	Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height.								
	i) 3/8" (10 mm) thick	100 Sft.	1410.55	1873.25	sq.m	151.80	201.55		
	ii) 1/2" (13 mm) thick	ditto	1410.55	2027.50	ditto	151.80	218.15		
33	Providing and fitting expanded metal edge bead for corners, with nails on both sides of edges.	Rft.	9.95	39.60	Metre	32.65	129.90		
34	Petty repairs to fire place.								
	i) Single	Each	220.30	274.90	Each	220.30	274.90		
	ii) Double	Each	440.55	549.75	Each	440.55	549.75		
35	Petty repair to main rooms.	Each	459.65	605.75	Each	459.65	605.75		Area above 100 Sft (10.76 sq.m)
36	Petty repair to small rooms.	Each	229.85	302.85	Each	229.85	302.85		Area upto 100 Sft (10.76 sq.m)
37	Petty repair to verandah.	Each	459.65	576.40	Each	459.65	576.40		
38	Extra labour for white washing, colour washing, priming coat and distempering, etc. from 20' (6.00 m) height and above, requiring scaffolding, for every additional 10' (3.00m) height or part thereof.	100 Sft. Per coat	19.30	-	sq.m Per coat	2.10	-		The height will be taken from the floor, roof or ground uderneath as the case may be on the side towards which the work is to be done.

# 12. WOOD WORK

- 1 No extra rate is to be paid for sawing as the rates are inclusive of these.
- 2 Rates for all finished works include the removal of surplus debris, unused material and byproducts.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Plain wood work sawn, wrought, planed and fixed in position, including cost of nails and screws etc.							26.1	
	a) Deodar wood	Per Cft.	736.45	4216.20	cu.m	26011.40	148916.20		
	b) Shisham wood	ditto	836.90	3213.15	ditto	29559.30	113488.45		
2	Plain wood work for regulation karries or needles, etc. including sawing, planning, wroughting wood and providing and fixing steel parts of karries i.e. end strip and rods, etc.							26.1	
	a) Deodar wood	Per Cft.	477.00	3998.05	cu.m	16847.65	141211.15		
	b) Shisham wood	ditto	477.00	2922.85	ditto	16847.65	103235.05		
3	First class teak wood wrought joinery in doors and windows, etc. panelled, panelled and glazed or fully glazed and fixed in position, including chowkat, holdfast, tower bolt, chocks, rubber stop, cleats/G.I. clamps, chords with hooks, nails, screws, etc. complete (excluding sliding bolt and lock):-							26.1 to 26.3 & 26.7	
	i) 2" (50 mm) thick	Per Sft.	127.10	1477.10	sq.m	1367.60	15893.60		
	ii) 1¾" (45 mm) thick	ditto	127.10	1380.05	ditto	1367.60	14849.35		
	iii) 1½" (40 mm) thick	ditto	127.10	1285.25	ditto	1367.60	13829.30		
4	First class teak wood wrought joinery in wire gauze doors and windows with frames 22 SWG galvanized iron wire gauze 12x12 meshes to square inch, (5x5 meshes in cm <sup>2</sup> ) including brass fittings, sash bars, etc. complete:-							26.8 to 26.10	i) This also includes the cost of wood required for extra thickness of chowkat. ii) If 24 SWG wire gauge is used, the composite rate shall be reduced by Rs.4.70 per sft. and Rs.50.60 per sq.m.
	a) teak wood framing 1¾" (45 mm) thick with wire gauze fixed in position:-								
	i) without springs or spring hinges.	Per Sft.	23.25	599.35	sq.m	250.15	6449.00		
	ii) with springs or spring hinges.	ditto	23.25	603.05	ditto	250.15	6488.80		
	b) teak wood framing 1½" (40 mm) thick, with wire gauze fixed in position:-								
	i) without springs or spring hinges.	Per Sft.	23.25	553.10	sq.m	250.15	5951.35		
	ii) with springs or spring hinges.	ditto	23.25	557.30	ditto	250.15	5996.55		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
c)	G.I. wire gauze 22 SWG, 12x12 meshes per square inch, (5x5 meshes per cm <sup>2</sup> ) fixed to chowkat with ¾" (20 mm) teak wood strips and screws.	Per Sft.	41.85	190.6	sq.m	450.3	2050.85		
d)	G.I. wire gauze 22 SWG, 12x12 meshes per square inch (5x5 meshes per cm <sup>2</sup> ) fixed with ½" (13 mm) strip on separate frame of teak wood 2"x2" (50x50 mm), for windows, etc.	Per Sft.	39.25	579.85	sq.m	422.35	6239.20		
5	P/F expanded metal ½" to ¾" (13 to 20 mm) mesh, 16 Gauge, fixed to chowkat with 1" (25 mm) teak wood cover strips and screw etc., complete.	Per Sft.	52.30	301.25	sq.m	562.75	3241.45		
6	Providing and fixing expanded metal ½" (13 mm) to ¾" (20 mm), 16 gauge, fixed to chowkat with 1" (25 mm) cover moulding and screws, including teak wood frame 2"x2" (50 mm x 50 mm)	Per Sft.	52.30	439.45	sq.m	562.75	4728.50		
7	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast, hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete (excluding sliding bolt or lock):-							26.1 to 26.3 & 26.7	
a)	2" thick (50 mm)	Per Sft.	124.00	1115.30	sq.m	1334.25	12000.65		
b)	1¾" thick (45 mm)	ditto	124.00	1044.60	ditto	1334.25	11240.00		
c)	1½" thick (40 mm)	ditto	124.00	995.50	ditto	1334.25	10711.60		
8	Deodar wood framed, braced and battened doors and windows, complete with iron fittings and fixed in position, including chowkats:-							26.1, 26.2 & 26.4	
a)	2¼" (56 mm) thick, with 1¼" (30 mm) battens and 1" (25 mm) planks.	Per Sft.	139.50	768.45	sq.m	1501.00	8268.50		
b)	1¾" (40 mm) thick with 1" (25 mm) battens and ¾" (20 mm) planks.	ditto	128.75	665.20	ditto	1385.35	7157.55		
9	1" (25 mm) thick battened doors and windows fitted in position, complete with iron fittings, without chowkats.	Per Sft.	159.00	448.00	sq.m	1710.85	4820.50		
10	Deodar battened ledged and braced doors and windows 2¼" (56 mm) thick (1¼" (30 mm) thick ledge braces and 1" (25 mm) thick battens complete with iron fittings, chowkats and fixed in position.	Per Sft.	150.20	751.85	sq.m	1616.15	8089.90	26.1, 26.2 & 26.6	
11	a) Deodar wood framed with braces and 22 SWG G.I. sheet facing, including holdfast, wooden beadings, hinges, and locking arrangements as directed by the							26.1, 26.2 & 26.4	If 24 gauge G.I. sheet is used, the composite rate will be reduced by Re.4.70 per Sft. (Rs. Per 50.60

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	Engineer incharge:-								
	i) G.I. sheet facing on one side.	Per Sft.	65.40	578.45	sq.m	703.70	6224.10	Sq.m) for G.I. facing on one side and Rs.9.40 per Sft. (Rs.101.20 per Sq.m) for G.I. sheet facing on both sides.	
	ii) G.I. sheet facing on both sides.	ditto	71.90	609.40	ditto	773.65	6557.15		
	b) Partial wood framed with braces and 22 SWG G.I. sheet facing, including holdfast, wooden beadings, hinges and locking arrangements, as directed by the Engineer-in-charge:-							-ditto-	
	i) G.I. sheet facing on one side.	Per Sft.	65.40	256.90	sq.m	703.70	2764.25		
	ii) G.I. sheet facing on both sides.	ditto	71.90	287.85	ditto	773.65	3097.25		
12	First class deodar wood wrought joinery work in wire gauze doors and windows, with 22 SWG G.I. wire gauze, 12x12 meshes per square inches (5x5 per cm <sup>2</sup> ) including iron fittings etc. complete:-							26.8 to 26.10	
	a) deodar wood framing 1 3/4" (45 mm) thick with wire gauze fixed in position:-							i) This also includes the cost of wood required for extra thickness of chowkat.  ii) If 24 SWG wire gauze is used the composite rate shall be reduced by Rs.4.70 per sft or Rs.50.60 per sq.m.	
	i) without springs or spring hinges.	Per Sft.	69.75	485.85	sq.m	750.50	5227.75		
	ii) with springs or spring hinges.	ditto	69.75	490.00	ditto	750.50	5272.40		
	b) deodar wood framing 1 1/2" (40 mm) thick, with wire gauze fixed in position:-								
	i) without springs or spring hinges	Per Sft.	69.75	452.95	sq.m	750.50	4873.75		
	ii) with springs or spring hinges	ditto	69.75	455.50	ditto	750.50	4901.20		
	c) G.I. wire gauze 22 SWG, 12x12 meshes per square inch, (5x5 in cm <sup>2</sup> ) fixed to chowkat, with 3/4" (20 mm) thick deodar wood strip and screws.	Per Sft.	52.30	168.65	sq.m	562.75	1814.65		
	d) G.I. wire gauze 22 SWG 12x12 meshes per square inch, (5x5 meshes in cm <sup>2</sup> ) fixed to chowkat, with 1/2" (13 mm) strip on separate frame of deodar wood 2" x 2" (50 mm x 50 mm).	Per Sft.	78.45	423.15	sq.m	844.10	4553.10		
13	Making and fixing trellis doors and windows of deodar wood, complete.	Per Sft.	116.25	512.60	sq.m	1250.85	5515.60	26.1 26.2	
14	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:-								
	a) M.S. angle iron 1 1/2" x 1 1/2" x 1/4" (40x40x6 mm) welded with M.S. flat 2" x 1/4" (50 mm x 6 mm)	Per Sft.	27.85	138.30	sq.m	299.65	1488.10		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	b) M.S. tee iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	Per Sft.	27.85	106.90	sq.m	299.65	1150.25		
15	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:								
	a) single rebate	Per Sft.	43.05	129.35	sq.m	463.20	1391.80		
	b) double rebate	ditto	50.50	149.55	ditto	543.40	1609.15		
16	Extra for providing and fixing iron double spring hinges, with brass fittings (it shall include brass finger plate, 6" (150 mm) tower bolt).	Per Sft. door area	4.00	32.05	sq.m door area	43.05	344.85	26.2	
17	Providing and fixing brass spring hinges to wire gauzed doors.	Each	83.70	236.10	Each	83.70	236.10		
18	Providing and fixing sliding bolt to doors:-								
	i) iron sliding bolt, 10" (250 mm) long	Each	78.45	140.85	Each	78.45	140.85		
	ii) iron sliding bolt, 12" (300 mm) long	ditto	78.45	182.85	ditto	78.45	182.85		
	iii) brass sliding bolt, 10" (250 mm) long	ditto	78.45	181.65	ditto	78.45	181.65		
	iv) brass sliding bolt, 12" (300 mm) long	ditto	78.45	338.85	ditto	78.45	338.85		
19	Extra for brass fittings to doors and windows, except for hinges, which shall be of iron:-								
	i) deodar wood panelled or panelled and glazed or fully glazed.	Per Sft.	2.40	12.70	sq.m	25.80	136.65		
	ii) deodar wood wire gauzed shutters.	ditto	2.40	10.20	ditto	25.80	109.75		
20	Extra for providing and fixing approved quality rim lock adjustable over the style surface.	Each	251.05	462.25	Each	251.05	462.25		
21	Providing and fixing, approved quality mortice lock.	Each	348.70	539.50	Each	348.70	539.50		
22	Providing and fixing, expended metal ½" to ¾" (13 mm to 20 mm) mesh 16 gauge.								
	a) fixed to chowkat with 1" (25 mm) thick deodar wood strip and screws, etc.	Per Sft.	52.30	250.50	sq.m	562.75	2695.40		
	b) fixed with 1" (25 mm) cover moulding and screws, including deodar wood frame 2"x2" (50 x 50 mm)	ditto	52.30	348.20	ditto	562.75	3746.65		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
23	a) Providing and fixing deodar wood almirah 9" to 12" (225 mm to 300 mm) depth, including boxing with back, shelves, shutter and brass fittings, etc. complete.	Per Sft.	167.40	1587.65	sq.m	1800.95	17083.05		For hollow frame shutter with commercial ply on one side, the composite rate shall be reduced by Rs.54.00 per Sft; or Rs.580.00 per Sqm and for hollow frame shutter with commercial ply on both sides, the composite rate shall be reduced by Rs.22.80 per Sft. or Rs.245.00 per Sq. metre.
	b) Providing and fixing deodar wood almirah 9" to 12" (225 mm to 300 mm) depth with shelves, shutters, brass fittings, etc., without boxing and back, complete.	Per Sft.	125.55	583.95	sq.m	1350.70	6283.10		
24	Providing and fixing class room almirah consisting of 1" (25 mm) thick solid flush shutter with deodar wood lipping ¼" (6 mm) thick all around (Approved Factory Manufactured) fixed in deodar wood frame 3"x1" (75mm x 25mm) including full hinges C.P. fittings with RCC (1:1½:3) shelves 1½" (40 mm) thick including 3 coats of painting.	Per Sft.	99.90	388.40	Sq.m	1074.95	4179.20		
25	Providing and fixing wooden box type wardrobe 22" (550 mm) deep including ¾" (20 mm) thick boxing and shelves, hanger rods, hard board back drawers, brass fittings, locking arrangements, handles, internal bolts, shoe rods, etc. including three coats of enamel paint:-								If hollow flush door leaves 1" thick (25 mm) with commercial ply 3 ply on both sides of deodar wood frame and partial wood bracing and deodar wood lipping is used, the composite rate will be reduced by Rs.13.00 per Sft. or Rs.140.00 per Sq. metre.
	i) Partial wood boxing and deodar wood shelves and leaves, etc.	Per Sft.	193.15	769.10	sq.m	2078.05	8275.75		
	ii) Deodar wood boxing, and deodar wood shelves and leaves, etc.	ditto	188.30	983.15	ditto	2026.10	10578.90		
26	Providing and fixing wardrobe 22" (550 mm) deep consisting of RCC shelves 1½" (40 mm) thick including ½" thick vinboard boxing and back (one side ply) vinboard shutter ¾" (20 mm) thick including deodar wood lipping ¼" (6 mm) on all edges, fixes including deodar wood frame 3"x1" (75mm x 25mm) with hanger rod in centre position drawers at bottom and openable shutter on upper portion including full hinges C.P. fitting and painting 3 coats complete.	Per Sft.	74.90	628.70	Sq.m	806.15	6764.65		
27	Providing and fixing chowkat for doors, windows and C. windows, including holdfast, etc.								
	a) Teak wood	Per Sft.	37.20	503.95	Sq.m	400.20	5422.50		
	b) Deodar wood	ditto	23.25	364.90	ditto	250.15	3926.25		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	c) Shisham wood	ditto	27.90	187.10	ditto	300.15	2013.10		
28	Making and fixing deodar wood planking in eave boards, etc. planed on both sides, rebated and fixed including nails and screws, bolts and brackets:-							26.1 26.2	
	a) 1" (25 mm) thick	Sft.	41.85	327.15	sq.m	450.25	3520.20		
	b) ¾" (20 mm) thick	ditto	41.85	255.75	ditto	450.25	2751.95		
	c) ½" (13 mm) thick	ditto	41.85	184.65	ditto	450.25	1986.90		
29	Making and fixing deodar wood shelves, including brackets:-							ditto	
	i) 1" (25 mm) thick	Sft.	41.85	327.15	sq.m	450.25	3520.20		
	ii) 1½" (40 mm) thick	ditto	41.85	469.65	ditto	450.25	5053.50		
	iii) 2" (50 mm) thick	ditto	41.85	612.15	ditto	450.25	6586.80		
30	a) Making and fixing cleats for doors and windows, including hinges and screws.	Each	50.20	134.45	Each	50.20	134.45	26.1 and 26.2	
	b) Making and fixing cleats with brass hooks for roof ventilators.	Each	66.95	109.75	Each	66.95	109.75		
	c) Providing and fixing door stops of 1½" (40 mm) dia rubber block.	Each	6.95	60.10	Each	6.95	60.10		
	d) Providing and fixing G.I. hook with clamps for doors.	Each	2.25	11.15	Each	2.25	11.15		
31	Hard wood railing of any shape and design, including bends and corners, fixed in position, including polishing complete as directed.							ditto	
	a) Shisham wood	Per Rft.	191.80	349.95	Metre	629.05	1147.80		
	b) Teak wood	ditto	142.25	710.05	ditto	466.65	2328.95		
32	Deodar wood dado or picture rail 3"x1½" (75x40 mm) as per approved design including moulding and fixed in place, cost of screws, nails, plugs, and painting complete.	Per Rft.	71.15	254.95	Metre	233.30	836.20	26.1 26.2	
33	Sawing wood by hand:-								
	a) Soft wood (deodar, kail or chir).	100Sft.	836.88	-	sq.m	90.05	-		
	b) Hard wood (shisham, kikar, teak or sahl).	ditto	1115.84	-	ditto	120.05	-		
34	Sawing wood by machine:								
	a) Soft wood	100Sft.	493.76	-	sq.m	53.15	-		
	b) Hard wood	ditto	742.05	-	ditto	79.85	-		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
35	Making and fixing sun-shade of deodar wood including fixing brackets.	Per Sft.	58.60	399.95	sq.m	630.35	4303.55	26.1	
36	Making and fixing 1" (25 mm) thick kail or chir wooden notice board with frame.	Per Sft.	69.75	141.60	sq.m	750.50	1523.60	ditto	
37	Making deodar punkha pole 10'x6"x6" (3.0 m x 150 mm x 150 mm)	Each	251.05	7803.85	Each	251.05	7803.85	ditto	
38	Dismantling and refixing eave boards.	Per Rft.	17.95	--	Metre	58.85	--		
39	Making wooden stair-cases complete 2' to 3' (600 to 900 mm) wide frame 1½" (40 mm) thick planks of deodar wood, including hand rails.	Per Rft.	276.35	2484.30	Metre	906.50	8148.45	26.1	
40	Providing and fixing partition, including frame work:-								
	a) Sheets on one side of framework:-								
	i) Hard board	100Sft.	1307.65	13273.15	sq.m	140.70	1428.20		
	ii) Ply wood ¼" (6 mm) thick	ditto	1307.65	14785.15	ditto	140.70	1590.90		
	iii) Masonite	ditto	1307.65	15037.15	ditto	140.70	1618.00		
	b) Sheets on both sides of frame work:-								
	i) Hard board	100Sft.	1569.15	14950.85	sq.m	168.85	1608.70		
	ii) Ply wood ¼" (6 mm) thick	ditto	1569.15	25292.20	ditto	168.85	2721.45		
	iii) Masonite	ditto	1569.15	18478.85	ditto	168.85	1988.30		
41	Providing and fixing ceiling, including frame work:-								
	i) Hard board	100Sft.	2563.00	10148.95	sq.m	275.80	1092.05		
	ii) Chip board	ditto	2563.00	12788.95	ditto	275.80	1376.10		
	iii) Ply wood ¼" (6 mm) thick	ditto	2563.00	12668.95	ditto	275.80	1363.20		
	iv) Masonite	ditto	2563.00	12068.95	ditto	275.80	1298.60		
42	Providing and fixing thermopore false ceiling, including wooden frame panelling, cost of M.S. clamps, making holes in walls and repairing damaged surface, complete in all respects:-								
	a) Deodar wood frame panelling:								
	i) ¾" (20 mm) thick	100Sft.	2871.00	10396.50	sq.m	308.90	1118.65		
	ii) 1" (25 mm) thick	ditto	2871.00	10469.35	ditto	308.90	1126.50		
	b) Partial wood frame panelling:								
									In case of acoustic Thermopore sheet, the composite rate will be increased by Rs.9.00 per Sft.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) ¾" (20 mm) thick ii) 1" (25 mm) thick	100Sft. ditto	2871.00 2871.00	7209.00 7335.00	sq.m ditto	308.90 308.90	775.70 789.25		
43	a) Fixing door, including chowkats.	Each	393.35	-	Each	393.35	-		
	b) Fixing windows, including chowkats.	ditto	196.70	-	ditto	196.70	-		
44	a) Glazing with panes (16 oz. to 18 oz.) including cost of putty.	Per Sft.	29.90	64.00	sq.m	321.60	688.65	26.12	
	b) Glazing with panes (16 oz. to 18 oz.) using deodar wooden fillets and putty.	Per Sft.	37.65	97.30	sq.m	405.20	1047.15		
45	Glazing with panes (24 oz. to 26 oz.), using putty and deodar wooden fillets.	Per Sft.	56.05	114.45	sq.m	602.95	1231.35	26.12	
46	a) Cutting to required size and fixing glass panes with putty	Per Sft.	20.90	22.05	sq.m	225.10	237.10		
	b) Cutting to required size and fixing glass panes with wooden fillets and putty.	Per Sft.	31.40	51.10	sq.m	337.70	549.90		
47	Glazing with plate glass 1/4" (6 mm) thick including the cost of deodar wood fillets and putty:-								
	a) Glazing upto 8 sft (0.75 sq.m)	Per Sft.	48.10	115.00	sq.m	517.80	1237.60		
	b) Glazing exceeding 8 Sft (0.75 sq.m) but not exceeding 24 sft (2.25 sq.m).	Per Sft.	48.10	115.20	sq.m	517.80	1239.70		
48	Providing and fixing 1½" (40 mm) thick deodar wood panelled or panelled and glazed, doors and windows, with mild steel chowkat (frame), etc. complete in all respects (excluding sliding bolt or lock) with:-								
	i) M.S. angle iron 1½"x1½"x¼", welded (40 mmx 40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft.	178.85	719.05	sq.m	1924.35	7736.90		
	ii) M.S. tee iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat ½"x¼" (13 mm x 6 mm)	Per Sft.	178.85	676.30	sq.m	1924.35	7276.80		
49	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):-								
	i) M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft.	124.00	582.70	sq.m	1334.05	6269.85		Teak ply would be used under the written permission of the superintending Engineer, and the composite rate of using teak ply will be increased by Rs.20.00 per Sft. ( 216.00 per Sq.m)

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ii) M.S. tee iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat ½"x¼" (13 mm x 6 mm)	Per Sft.	124.00	551.35	sq.m	1334.05	5932.30		
50	Providing and fixing 1½" (40mm) thick solid flush door shutter (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per Sft.	68.30	360.85	sq.m	735.10	3882.70		It C.P. Finger plate and kick plate are not provided/fixed the composite rate will be reduced by Rs.15.20 per Sft. Reduce composite rate by Rs.20.00 per. Sq/ft or Rs.215 per sq.meter if 3-mm commercial ply is used
51	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.S. sheet 22 SWG fitted in hollow frame chowkat 3"x4½" (75 mmx113 mm) made of M.S. sheet 18 SWG filled with plain cement concrete 1:3:6 etc. complete with all fittings and hammer painting, including carriage to site and fixing in position.	Per Sft.	116.85	352.15	sq.m	1257.50	3789.00		
52	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Per Rft.	25.10	38.90	Metre	82.35	127.50		
53	Providing and fitting curtain railing to doors and windows, comprising of TOSO-elite Japan made superior type of railing or equivalent, fixed over 4"x¾" (100mmx20mm) deodar wood strip, including painting.	Per Rft.	10.45	132.95	Metre	34.30	436.10		
54	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	Per Sft.	60.25	185.70	sq.m	648.35	1997.95		
55	Providing and fixing G.I. wire gauze 22 SWG, 12x12 meshes per square inch, (5x5 meshes in cm <sup>2</sup> ) fixed to steel window, complete with flat iron patti ½"x 1/8" (13 mmx3 mm) and machine made screws.	Per Sft.	21.30	64.65	sq.m	229.20	695.75		It 24 SWG wire gauze is used, the composite rate shall be reduced by Rs.4.70 per Sft. or Rs.50.60 P.SQM
56	Providing and fixing wooden moulding stopper 2½"x5/8" (63 x 16 mm) on door frame fitted with ply of approved quality complete in all respects.								
	a) Teak wood moulding	Per Sft.	26.15	114.75	sq.m	281.40	1234.60		
	b) Deodar wood moulding	ditto	26.15	70.75	ditto	281.40	761.45		
57	Providing and fixing deodar wood dolly frame having 1½"x1½" (40 x 40 mm) vertical and horizontal double post with 1½"x1½" (40 x 40 mm) full width of janes braces at 12" (300 mm) including filling of the spaces in between								Rate shall be paid as per surface area of dolly frame e-g 0.75' x (3.5' + (2 x 7))

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	braces with 1:3:6 PCC fixing ply of approved quality including holdfasts complete in all respects.								
	a) Teak wood ply	Per Sft.	64.40	346.70	sq.m	692.70	3730.50		
	b) With commercial ply	ditto	64.40	340.55	ditto	692.70	3664.30		
58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.								
	a) Teak wood architrave	Per Sft.	11.75	70.95	sq.m	126.40	763.55		
	b) Deodar wood architrave	ditto	11.75	41.20	ditto	126.40	443.15		
59	Providing and fixing Vin board cabinet ¾" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects.								
	i) 1-1/2' deep,without back	Per Sft	136.00	567.45	sq,m	1463.35	6105.60		
	ii) 1-1/2' deep,with back	Per Sft	136.00	619.05	sq,m	1463.35	6660.80		
	iii) 2' deep,without back	Per Sft	136.00	617.75	sq,m	1463.35	6646.95		
	iv) 2' deep,with back	Per Sft	136.00	669.35	sq,m	1463.35	7202.15		

*Finance Department*

# 13. PAINTING AND VARNISHING

- 1 The rates include charges for scaffolding and other arrangements.
- 2 The rates for all finished works include the removal of surplus debris, unused material and by products

## MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	a) Cleaning painted wood work with oil and water.	100 Sft.	147.30	181.70	sq.m	15.85	19.55		
	b) Oiling woodwork with boiled linseed oil.	100 Sft.	98.20	146.10	sq.m	10.55	15.70	27.7	
2	Brushing and scraping blisters of old paints from woodwork.	100 Sft.	294.60	--	sq.m	31.70	-	27.3	
3	Scraping, brushing and removing old paint from metal surface.	100 Sft.	1178.50	--	sq.m	126.80	-	27.9	
4	Painting old surfaces:-							27.1 27.3 & 27.9	
	a) Painting corrugated surfaces, patent roofing, etc. with oil paint.								
	i) first coat	100 Sft.	346.15	523.90	sq.m	37.25	56.35		
	ii) each subsequent coat	ditto	262.25	353.00	ditto	28.20	38.00		
	b) Painting sashes, fanlights, glazed or gauzed doors and windows:-								
	i) first coat	100 Sft.	209.80	304.30	sq.m	22.55	32.75		
	ii) each subsequent coat	ditto	178.30	255.40	ditto	19.20	27.50		
	c) Painting doors and windows, any type:								
	i) first coat	100 Sft.	346.15	527.65	sq.m	37.25	56.80		
	ii) each subsequent coat	ditto	262.25	400.25	ditto	28.20	43.05		
	d) Painting guard bars, gates of iron bars, gratings, railing (including standards, braces etc.) and similar open work:-								
	i) first coat	100 Sft.	209.80	304.30	sq.m	22.55	32.75		
	ii) each subsequent coat	ditto	178.30	255.40	ditto	19.20	27.50		
	e) Painting fillets, framings, skirtings, pipes, gutters and similar linear work not exceeding 6" in girth:-								
	i) first coat	100 Lft.	178.30	272.80	Metre	5.85	8.95		
	ii) each subsequent coat	ditto	125.90	202.95	ditto	4.15	6.65		
	f) Painting small detached articles, not exceeding one square foot (Sq.m) of painted surface:-								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) first coat	100 Nos.	510.50	688.25	100 Nos.	510.50	688.25		
	ii) each subsequent coat	ditto	463.90	558.35	ditto	463.90	558.35		
	g) Painting small detached articles, exceeding one square foot (Sq.m) but not exceeding three square feet (Sq.m) of painted surface:-								
	i) first coat	100 Nos	1166.90	1696.35	100 Nos	1166.90	1696.35		
	ii) each subsequent coat	ditto	688.65	953.40	ditto	688.65	953.40		
5	Painting new surface:-							27.1	
	a) Preparing surface and painting corrugated surface, patent roofing, etc.							27.2 & 27.9	
	i) priming coat.	100 Sft.	506.85	737.50	sq.m	54.55	79.35		
	ii) each subsequent coat of paint.	ditto	178.75	400.00	ditto	19.25	43.05		
	b) Preparing surface and painting sashes, fan light, glazed or gauzed doors and windows etc. any type (including edges):-								
	i) priming coat.	100 Sft.	214.50	374.25	sq.m	23.10	40.25		
	ii) each subsequent coat of paint.	ditto	151.05	276.60	ditto	16.25	29.75		
	c) Preparing surface and painting of doors and windows any type (including edges):-								
	i) priming coat.	100 Sft.	506.85	733.75	sq.m	54.55	78.95		
	ii) each subsequent coat of paint.	ditto	178.75	400.00	ditto	19.25	43.05		
	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-								
	i) priming coat.	100 Sft.	334.45	472.10	sq.m	36.00	50.80		
	ii) each subsequent coat of paint.	ditto	151.05	276.60	ditto	16.25	29.75		
	e) Preparing surface and painting of fillets, framing, skirtings, pipes, gutters, and similar linear work not exceeding 6" (150 mm) girth:-								
	i) priming coat.	100 Lft.	267.50	371.70	Metre	8.75	12.20		
	ii) each subsequent coat of paint.	ditto	100.70	203.90	ditto	3.30	6.70		
	f) Preparing surface and painting of small detached articles, not exceeding one sq. ft. (Sq.m) of painted surface:-								
	i) priming coat.	100 Nos.	786.7	1337.95	100 Nos.	786.7	1337.95		
	ii) each subsequent coat of paint.	ditto	385.20	823.95	ditto	385.20	823.95		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	g) Preparing surface and painting of small detached articles, exceeding one Sft. but not exceeding 3 Sft. (Sq.m) of painted surface:-								
	i) priming coat.	100 Nos.	2201.10	3101.40	100 Nos.	2201.10	3101.40		
	ii) each subsequent coat of paint.	ditto	663.95	1450.70	ditto	663.95	1450.70		
	h) Extra for knotting and stopping to priming coat on new surface of wood.	100 Sft.	33.50	49.15	sq.m	3.60	5.30		
6	Applying Khanki Mixture hot to barrage gates:-							27.10	
	i) first coat	100 Sft.	262.25	430.65	sq.m	28.20	46.35		
	ii) second coat	ditto	212.05	320.70	ditto	22.80	34.50		
7	French polishing complete:-							27.6	
	a) on new work	100 Sft.	2572.85	2641.10	sq.m	276.85	284.20		
	b) on old work	ditto	1377.35	1413.85	ditto	148.20	152.15		
8	Varnishing wood work, including cleaning and preparing surface.								
	a) first coat	100 Sft.	209.80	343.30	sq.m	22.55	36.95		
	b) second coat	ditto	78.65	179.85	ditto	8.45	19.35		
	c) third coat	ditto	78.65	158.85	ditto	8.45	17.10		
9	Bitumen coating to plastered or cement concrete surface:-								
	i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft.	245.50	862.40	sq.m	26.40	92.80		
	ii) 14 lbs. per 100 Sft. (6.35 Kg per Sq.m)	ditto	235.70	552.95	ditto	25.35	59.50		
	iii) 10 lbs. per 100 Sft. (4.54 Kg per Sq.m)	ditto	194.45	511.70	ditto	20.90	55.05		
10	Writing letters or figures, per letter, per inch (25 mm) height.	Per No.	10.50	11.10	Per No.	10.50	11.10	27.1	
11	Writing letters or figures at any surface with reflective paint of approved quality and colour per letter per inch height.	Per Letter per inch height	10.50	10.85	Per Letter per 25 mm height	10.50	10.85	27.1	
12	Writing letters of figures on any surface with reflective tape of approved quality and colour per letter per inch (25 mm) height.	ditto	12.05	12.95	ditto	12.05	12.95	ditto	
13	Coal tar painting:							27.8 to 27.11	
	a) first coat, laid hot	100 Sft.	220.95	699.95	sq.m	23.75	75.30		
	b) second coat, laid hot	ditto	133.90	440.75	ditto	14.40	47.40		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
14	Solignum painting:-							27.8	
	a) one coat, applied hot	100 Sft.	184.10	211.30	sq.m	19.80	22.75		
	b) two coats, applied hot	ditto	278.95	322.40	ditto	30.00	34.70		
15	Creosote painting:-							ditto	
	a) one coat, applied hot	100 Sft.	220.95	338.80	sq.m	23.75	36.45		
	b) two coats, applied hot	ditto	334.75	532.40	ditto	36.00	57.30		
16	Burning off or rubbing down with pumice stone, old paint from wood work.	100 Sft.	816.80	832.40	sq.m	87.90	89.55	27.3	
17	Removing with caustic soda, old paint from wood work.	100 Sft.	294.60	302.35	sq.m	31.70	32.55	ditto	
18	Painting distance marks for white ground and black lettering on both sides.	Each	52.45	59.35	Each	52.45	59.35	27.1	
19	Painting two feet wide gauges, reading to 10th of a foot (metre).	Per Rft.	104.90	118.25	per Metre	344.05	387.85	ditto	
20	Painting sounding rods and other gauges, reading to 10th of a foot (metre)	Per Lft.	52.45	56.60	per Metre	172.05	185.65	27.1	
21	Painting leveling staves.	Per Lft.	160.70	167.35	per Metre	527.05	548.95		
22	a) Painting and lettering mile/Km stones, on both sides:							ditto	
	i) one coat	Each	112.40	160.25	Each	112.40	160.25		
	ii) two coats	ditto	196.70	273.55	ditto	196.70	273.55		
	b) Painting and lettering Furlong/½ Km stones, on both sides:-							27.1	
	i) one coat	Each	15.00	20.65	Each	15.00	20.65		
	ii) two coats	ditto	26.20	36.15	ditto	26.20	36.15		
	c) Painting and lettering Sign posts:-								
	i) one coat	Each	125.90	156.95	Each	125.90	156.95		
	ii) two coats	ditto	207.70	260.60	ditto	207.70	260.60		
23	Removing paint or varnish from wall.	100 Sft.	589.25	-	sq.m	63.40	-	27.12	
24	Scraping from hydraulic gates:-							27.1	
	a) Khanki paint	100 Sft.	1178.50	-	sq.m	126.80	-		
	b) Aluminium paint	ditto	1178.50	-	ditto	126.80	-		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
25	Painting letters with shade.	per letter per inch height	16.80	16.80	per letter per 25 mm height	16.80	16.80	27.1	
26	Scraping rust from old rail or girders.	100 Sft.	883.85	925.85	sq.m	95.10	99.60	27.9 27.10	
27	Chiselling old paint from brick work.	100 Sft.	1178.50	1210.90	sq.m	126.80	130.30	27.12	
28	Cleaning glasses with chalk and spirit, etc.	100 Sft.	982.10	997.50	sq.m	105.65	107.35		
29	Cleaning and oiling rafter or rolled steel beams.	100 Sft.	294.60	316.30	sq.m	31.70	34.05	27.9	
30	Cleaning and painting punkha poles, including fixing hooks.	Each	209.20	217.30	Each	209.20	217.30	27.3	
31	Preparing surface and painting with emulsion paint:-							27.12	
	a) first coat	100 Sft.	256.30	443.50	sq.m	27.60	47.70		
	b) 2nd and each subsequent coat	ditto	196.85	344.15	ditto	21.20	37.05		
32	Preparing surface and painting with water proof coloured cement finish, like duracem, buxcem or other finishes with similar specifications, on walls, etc.							27.12	
	a) new surface:								
	i) 1st coat	100 Sft.	256.30	344.80	sq.m	27.60	37.10		
	ii) 2nd and subsequent coat	ditto	196.85	274.20	ditto	21.20	29.50		
	b) old surface:								
	i) 1st coat	100 Sft.	256.30	293.30	sq.m	27.60	31.55		
	ii) 2nd and subsequent coat	ditto	196.85	233.20	ditto	21.20	25.10		
32A	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:								
	a) new surface:								
	i) 1st coat	%sft	924.00	1399.00	sq.m	99.40	150.55		
	ii) 2nd coat	%sft	503.85	710.85	sq.m	54.20	76.50		
	b) old surface:								
	i) 1st coat	%sft	503.85	710.85	sq.m	54.20	76.50		
33	Painting traffic lane 5" (125 mm) wide, with road marking enamel.	Per Rft.	1.55	2.45	Metre	5.15	8.10		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
34	Painting traffic lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	Per Rft.	2.05	10.30	Metre	6.65	33.70	AASHTO M248-91 (2000)	Rates shall be reduced by <b>Rs.0.50</b> P.Rft or <b>Rs.1.65</b> P.Mtr. If glass beads are not used.
35	Repainting of ceiling fan (all sizes and types), including painting of blades, canopy, suspension rod and regulator, with suitable enamel paint.	Per Job	59.80	93.35	Job	59.80	93.35		
36	Repainting of iron poles with cross arms, with bitumen or other approved paint.	Per Job	139.50	260.05	Job	139.50	260.05		
37	Repainting of pipes and specials of G.I., M.S. or conduit, etc., fixed for on surface electric wiring, with approved paint:								
	i) upto 40 mm (1½") dia	Per Rft.	1.30	4.20	Metre	4.20	8.00		
	ii) above 40 mm (1½") to 50 mm (2") dia	ditto	2.55	4.55	ditto	8.35	14.90		
	iii) above 50 mm (2") to 100 mm (4") dia	ditto	4.25	7.25	ditto	13.95	23.75		
38	Repainting main switches and branch distribution boards of all sizes and types, with approved paint (complete set).	Per Job	27.60	75.90	Job	27.60	75.90		
39	Extra labour for painting, varnishing, etc. from 20' (6.10 m) height and above, for every additional 10' (3.05 m) height, or part thereof, requiring scaffolding.	100 Sft. per coat	94.30	-	sq.m	10.15	-	The height will be taken from the floor, roof or ground underneath, as the case may be on the side towards which the work is to be done.	

Finance Department

# 14. LINING OF CANALS

- 1 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 2 The rates also include curing for specified period wherever necessary.
- 3 Nominal dimension of tile or brick shall be taken for the purpose of measurement and payment.

## MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Formation, dressing and preparing sub-grade:-							28.1 to 28.3	
	a) in bed	100Sft.	654.10	-	sq.m	70.40	-		
	b) on slope	ditto	892.85	-	ditto	96.05	-		
2	Stabilized layer of cement, sand ratio 1:30, 2" (50 mm) thick on slope.	100Sft.	1522.20	2123.40	sq.m	163.80	228.50	ditto	
3	Cement plaster ½" (13 mm) thick ratio 1:10.							ditto	
	a) in bed	100Sft.	1113.80	1397.20	sq.m	119.85	150.35		
	b) on slope	ditto	1374.90	1658.30	ditto	147.95	178.45		
4	Cement plaster 3/8" (10 mm) thick ratio 1:3.							ditto	
	a) in bed	100Sft.	1113.80	1601.35	sq.m	119.85	172.30		
	b) on slope	ditto	1374.90	1862.45	ditto	147.95	200.40		
5	Cement plaster 1½" (40 mm) thick ratio 1:6.							ditto	
	a) in bed	100Sft.	1374.90	2557.10	sq.m	147.95	275.15		
	b) on slope	ditto	1689.60	2871.75	ditto	181.80	309.00		
6	Tile lining 12"x6"x2" (300x 150x50 mm) in 1:6 cement, sand mortar:-							28.2 to 28.3	The rates are only for laying tiles over 1/8" (3 mm) thick layer of 1:6 mortar. Items 1 to 5 above are payable separately.
	a) in bed	100Cft.	6344.25	16437.50	cu.m	2240.80	5805.75		
	b) on slope	ditto	7290.05	17383.30	ditto	2574.85	6139.80		
7	Tile lining 12"x6"x2" (300x150x50 mm) in 1:3 cement, sand mortar:-							28.2 to 28.3	The rates are only for laying tiles over 1/8" (3 mm) thick layer of 1:3 mortar. Items 1 to 5 above are payable separately.
	a) in bed	100Cft.	6344.25	18028.05	cu.m	2240.80	6367.50		
	b) on slope	ditto	7290.05	18973.85	ditto	2574.85	6701.55		
8	Brick lining 9"x4½"x3" (225x113x75 mm) in 1:6 cement, sand mortar:-							28.2	The rates are only for laying bricks over 1/8" (3 mm) thick layer of 1:6 mortar. Items 1 to 5 above are payable separately.
	a) in bed	100Cft.	6344.25	20937.50	cu.m	2240.80	7395.15		
	b) on slope	ditto	7290.05	21883.30	ditto	2574.85	7729.20		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
9	Brick lining 9"x4½"x3" (225x113x75 mm), in 1:3 cement, sand mortar:-							ditto	The rates are only for laying bricks over 1/8" (3 mm) thick layer of 1:3 mortar. Items 1 to 5 above are payable separately.
	a) in bed	100Cft.	6344.25	22528.05	cu.m	2240.80	7956.90		
	b) on slope	ditto	7290.05	23473.85	ditto	2574.85	8290.95		
10	Cement concrete lining, using washed screened and graded stone aggregate:-							20.1, 28.1 & 28.3	
	a) in bed:-								
	i) ratio 1:2:4	100Cft.	5711.65	21055.30	cu.m	2017.35	7436.75		
	ii) ratio 1:3:6	ditto	5711.65	18292.45	ditto	2017.35	6460.90		
	iii) ratio 1:4:8	ditto	5711.65	16298.50	ditto	2017.35	5756.65		
	b) on slope:-								
	i) ratio 1:2:4	100Cft.	6581.50	21925.20	cu.m	2324.60	7744.00		
	ii) ratio 1:3:6	ditto	6581.50	19162.30	ditto	2324.60	6768.15		
	iii) ratio 1:4:8	ditto	6581.50	17168.40	ditto	2324.60	6063.90		

*Finance Department*

# 15. SHEET PILING

Rates for all finished works include the removal of surplus debris, unused material and by products.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Cutting Ransome and Larson piles.	Per cut	167.40	-	Per cut	167.40	-	29.1-29.3	
2	Cutting universal piles.	Per cut	247.70	-	Per cut	247.70	-	ditto	
3	Driving steel piles, 25' to 30'. (7.5 to 9.0 m)	100Sft.	4023.90	-	sq.m	432.95	-	ditto	1) The rate includes laying and removing of track and also carriage of piles to machine, average distance of 3 chains (90 metre). 2) The rates are for the tackle gangs only supplied by the contractor, Mechanical staff on-machines will be supplied by Government. 3) T-piles and adjustable junction piles will be counted as two piles.
4	Driving steel piles, more than 15' (4.6 m) and less than 25' (7.5 m).	100Sft.	3856.50	-	sq.m	414.95	-	ditto	ditto
5	Driving steel piles, 15' (4.5 m) and under.	100Sft.	2852.25	-	sq.m	306.90	-	ditto	ditto
6	Dolleying piles.	Each	251.75	-	Each	251.75	-	ditto	Upto 5' (1.5 m) dolleying.
7	Drilling holes in piles by hand.	Each	23.00	-	Each	23.00	-	ditto	
8	Raising and lowering machine.	Per Ft.	3771.70	-	Metre	12371.10	-	ditto	
9	Turning Machine, 90°.	Per Job	5624.25	-	Per Job	5624.25	-	29.1 to 29.3	
10	Turning Machine, 135°.	Per Job	6963.25	-	Per Job	6963.25	-	ditto	
11	Turning Machine, 180°.	Per Job	9480.75	-	Per Job	9480.75	-	29.1 to 29.3	
12	Travelling machine (light).	Per Chain	11201.50	-	30 M.	11201.50	-	ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

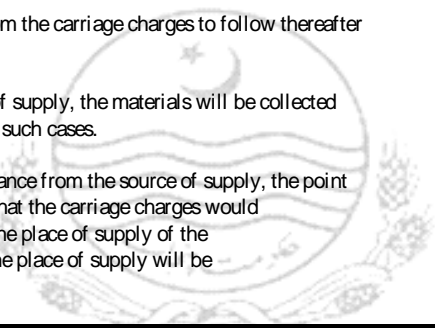
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
13	Loading and unloading piles.	Ton	218.00	-	Tonne	214.60	-	ditto	To be done by hand carts or ramps, including cost of ropes.
14	Dismantling piling machine.	Each	23076.25	-	Each	23076.25	-	ditto	
15	Erecting piling machine.	Each	26626.45	-	Each	26626.45	-	ditto	
16	Carriage of piling machine under different conditions.	per chain	4552.95	-	30 M	4552.95	-	ditto	



*Finance Department*

## 16. PROTECTION & DIVERSION WORKS

- 1 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 2 The composite rates of the items in which stone, boulders, shingle spawl are used do not contain the carriage of the these stone materials, which will be paid separately by road, and/or rail, whichever means of transport is adopted. The supply and carriage to site of work of all other material required in the item, is included in the composite rates.
- 3 The carriage of stone or spawl will be paid on the basis of actual stack measurement (without any reduction factor) of the stone, boulders, shingle or spawl carried.
- 4 Where stone, boulder or spawl is issued from stock and contractor is paid for its carriage and/or labour only; or where such stone product is supplied, carried or handled by the contractor in which no laying is required, the actual stack measurement (without any reduction factor) shall from the basis of payment of supply or carriage of the stone, boulder or spawl, etc. The quantity of finished and completed item of work shall form the basis of laying.
- 5 In case of the items in which the rates include carriage of stakes, bushing, Pilchi, sarkanda or farash, etc. within one mile (1.6 Km.)
  - i) the cost of the carriage within one mile (one Km) shall not be deducted from the carriage charges to follow thereafter from the point of supply.
  - ii) if the site of work happens to be within one mile (one Km.) of the source of supply, the materials will be collected and measured at site of work and no extra carriage would be admissible in such cases.
  - iii) where the site of the work is situated at more than one mile (one Km.) distance from the source of supply, the point of supply will be fixed carefully by the Engineer-in-charge in such a way that the carriage charges would be arrived at, most economically. Extra carriage will be admissible from the place of supply of the material which will be considered its starting point. The demarcation of the place of supply will be pre-determined before calling the tenders.



MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Cutting pilchi frash or sarkanda including carriage within one mile.	100Cft.	1119.55		cu.m	395.40			
2	Weaving mattresses.	100Cft.	2121.30		cu.m	749.15			
3	a) Supplying and filling jute bags 1.25 (0.035 cum) Cft., capacity, with sand or earth, sewing and stacking, in dry.	Per Bag	33.15	48.00	Per Bag	33.15	48		The rate does not include supply of sand or earth for filling bags, which will be paid extra.
	b) Supply and filling jute bags 1.25 (0.35 ccum) Cft. capacity, with sand or earth, sewing and laying in position, under water.	ditto	51.55	66.40	Per Bag	51.55	66.4		-ditto-
4	a) Supplying and filling jute bags 4 to 5 cft (0.11 to 0.14 cum) capacity, with sand or earth, sewing and stacking, in dry.	Per Bag	79.30	132.75	Per Bag	79.30	132.75		The rate does not include supply of sand or earth for filling bags, which will be paid extra.
	b) Supply and filling new jute bags 4 to 5 cft (0.11 to 0.14 cu.m) capacity, with sand or earth, sewing and laying in position, under water.	ditto	113.30	166.75	ditto	113.30	166.75		-ditto-

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
5	Carriage of jute bags 1.25 Cft. (0.035 cu m) capacity, filled with sand or earth:-								
	a) 1st chain (30 m)	100 Nos	294.60		% Nos	294.60			
	b) 2nd to 4th chain (30 m to 120 m)	Per chain per 100 Nos	106.05		Per 30 m Per 100 Nos/	106.05			
	c) 5th and subsequent chains (150 m and subsequent every 30 m)	ditto	41.25		ditto	41.25			
6	Carriage of new jute bags 4 to 5 Cft.(0.11 to 0.14 cu.m) capacity, filled with sand or earth:-								
	a) 1st chain (1st 30 metre)	100 Nos	1178.50		% Nos	1178.50			
	b) 2nd to 4th chain (60 m to 120 m)	per chain per 100Nos	412.45		Per 30 m per %Nos	412.45			
	c) 5th and subsequent chains (150 m and subsequent every 30 m)	ditto	159.10		ditto	159.10			
7	Rolling mattresses to river edge and floating, after unrolling:-								
	a) area of mattress upto 2,000 Sft. ( 186 sq.m)	100Sft.	662.90		sq.m	71.35			
	b) area of mattress 2,000 to 2,500 Sft. (186 sq.m to 232 sq.m)	100Sft.	1104.85		sq.m	118.90			
	c) area of mattress over 2,500 Sft. (232 sq.m)	ditto	1289.00		ditto	138.70			
8	Sewing empty cement bags in sheets.	100 Nos	1031.20	1067.00	% Nos	1031.20	1067		
9	Making compact round pilchi, frash or sarkanda round bundles of specified size for the work.	100Cft.	1436.30	1539.50	cu.m	507.30	543.75		Measured in the shape of compact round bundles and of size specified for the work, before filling at site.
10	Launching the above and placing in position.	100Cft.	707.10		cu.m	249.70			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
11	Supply within 5 chains (150 m):-								
	a) Boulders 9" (225 mm) and above	100Cft.	2133.10		cu.m	753.30			
	b) Over size shingle 3" to 9" (75 to 225 mm)	ditto	1426.00		ditto	503.60			
	c) Mixed graded shingle	ditto	1691.15		ditto	597.25			
12	Supplying Munj or Patha Trungers 6" (150 mm) mesh to hold 3 Cft. (0.085 cu.m)	Each	92.05	136.95	Each	92.05	136.95		
13	Providing and weaving G.I. wire netting for wire crates, with G.I. wire of approved size (including siding and partition to make crate):-								
	a) 6" (150 mm) mesh								
	i) 15 SWG wire	100Sft.	1101.40	1434.05	sq.m	118.50	154.30		
	ii) 10 SWG wire	ditto	1180.10	2260.10	ditto	127.00	243.20		
	iii) 8 SWG wire	ditto	1180.10	2873.50	ditto	127.00	309.2		
	b) 4" (100 mm) mesh								
	i) 15 SWG wire	100Sft.	1416.10	1916.15	sq.m	152.35	206.2		
	ii) 10 SWG wire	ditto	1573.45	3190.20	ditto	169.30	343.25		
	iii) 8 SWG wire	ditto	1573.45	4108.20	ditto	169.30	442.05		
14	Providing and laying shingle on top of bund, including handling of materials within three chains.	100Cft.	736.55	1066.55	cu.m	260.10	376.70		
15	Supply and dumping at site, without boat, including handling of materials within three chains (90 m)								
	a) stone or boulder	100Cft.	1289.00	1751.00	cu.m	455.20	618.35		The rate includes supply of brick bats to site of work.
	b) shingle or spawl	ditto	1289.00	1619.00	ditto	455.20	571.75		
	c) brick bats	ditto	994.35	1918.35	ditto	351.20	677.55		
16	Supply and dumping by boat, including loading into boat within three chains (90 m) lead, and hire charges of boat and boatman.								The rate includes supply of brick bats to site of work.
	a) stone or boulder	100Cft.	2310.00	2772.00	cu.m	815.90	979.05		
	b) shingle or spawl	ditto	2310.00	2640.00	ditto	815.90	932.45		
	c) brick bats	ditto	2015.40	2939.40	ditto	711.85	1038.20		
17	Providing and filling brick bats in crates (excluding cost of crates).	100Cft.	1794.40	2718.40	cu.m	633.80	960.15		The rate includes supply of brick bats to site of work.
18	Supplying and filling bricks in crates and hand packing (excluding cost of crates).	100Cft.	2162.70	15482.70	cu.m	763.85	5468.5		The rate includes supply of bricks to site of work.
19	Supply and filling in wire crates, including sewing crates (excluding cost of crates):-								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) stone or boulder	100Cft.	2457.30	2919.30	cu.m	867.90	1031.10		
	ii) shingle or spawl	ditto	2457.30	2787.30	ditto	867.90	984.50		
20	Extra for anchoring boat, for dumping by boats or tipping crates.	100Cft.	259.25	-	cu.m	91.55	-		
21	Extra for tipping crates (in addition to anchoring boats).	100Cft.	1296.35	-	cu.m	457.85	-		
22	Pilchi reventment, including carriage upto one mile (1.6 km.)	100Sft.	736.55	1246.55	sq.m	79.25	134.15	30.1	
23	Surface protection with pilchi mattresses, carriage upto one mile (1.6 Km).	100Sft.	1841.40	1892.40	sq.m	198.15	203.60	ditto	
24	Pilchi, sarkanda or frash pitching on slopes, including supply of pilchi, sarkanda or frash within one mile, (1.6 km) also supply and driving of pegs 1½' (460 mm) long sharpened at one end and, tying with wire or Munj Ban (excluding cost of placing earth between rolls).	100Sft.	4410.40	5520.00	sq.m	474.55	593.95		The cost of placing earth between rolls shall be paid separately, as earthwork.
25	Constructing Groynes upto 5' (1.5 m) height, with single row of wooden vertical stakes 7" to 12" (175 to 300 mm) dia, 1' (300 mm) apart, average lead one mile (1.6 km.)	100Sft.	1447.90	1551.10	sq.m	155.80	166.90		Measurement to be made of the area of elevation on one face only.
26	Construction Groynes upto 10' (3.0 m) height, with double row of wooden vertical stakes 7" to 12" (175 to 300 mm) dia, 2' (600 mm) apart, average lead one mile (1.6 Km).	100Sft.	2477.40	2599.80	sq.m	266.55	279.75		
27	Providing and laying stone pitching/filling, dry hand packed, as filling behind retaining walls or in pitching and aprons.	100Cft.	1573.45	2302.45	cu.m	555.75	813.2		
28	Providing and laying stone pitching with hammer dressed stones on surface, laid in courses.	100Cft.	4092.65	4740.65	cu.m	1445.55	1674.4		
29	Providing and laying stone pitching, for top layer only:-								
	a) one slope	100Cft.	3465.00	4113.00	cu.m	1223.85	1452.7		
	b) on level	ditto	3096.70	3744.70	ditto	1093.75	1322.65		
30	Providing and laying stone or spawl filling:-								
	a) on level	100Cft.	945.80	1245.80	cu.m	334.05	440.00		
	b) on slope	ditto	1138.25	1438.25	ditto	402.05	508		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
31	Providing and laying stone pitching, hand packed, with surface levelled off to the correct section and voids filled in 1:8 cement, sand mortar, in floors of bridges along banks and in appons etc.								
	i) top layer on slope	100Cft.	4519.35	7309.35	cu.m	1596.25	2581.65		
	ii) top layer on level	ditto	4151.05	6941.05	ditto	1466.15	2451.60		
	iii) stone pitching/filling on slope or on level (other than top layer).	ditto	2431.75	5302.75	ditto	858.90	1872.95		
32	Grouting stone pitching or apron, etc. in:-								
	a) cement, sand mortar 1:3	100Sft.	1595.20	5787.85	sq.m	171.65	622.75		
	b) cement, sand mortar 1:8	ditto	1344.75	3486.75	ditto	144.70	375.15		
33	Sand grouting in stone apron, with high pressure hose.	100Sft.	535.65	1315.65	sq.m	57.65	141.55		
34	Grouting stone filling or pitching, with bajri.	100Cft.	920.70	2072.70	cu.m	325.20	732.1		
35	Removing stone and repitching hand packed, on slopes or level after making good damaged slope/portion.	100Cft.	3272.85	-	cu.m	1155.95	-		
36	Collecting and stacking boulders from nullah beds or loose shale, or from any other site, within 3 chains (90 m) lead.	100Cft.	1178.50	-	cu.m	416.25	-		
37	Levelling and dressing stone filling under blocks and grouting with shingle.	100Cft.	945.80	2097.80	cu.m	334.05	740.95		
38	Grouting jharies between blocks with bajri.	100Cft.	945.80	1713.80	cu.m	334.05	605.30		
39	Breaking stone into spawls and stacking	100Cft.	883.85	-	cu.m	312.20	-		
	<b>Canal and Roads</b>								
40	Fixing floating spurs, with material from canal plantation within one mile (1.6 Km) lead:-								
	a) upto 2.0' (600 mm) F.S. depth	Each	30.35	-	Each	30.35	-		
	b) above 2.0' to 3.0' (600 to 900 mm) F.S. depth	ditto	34.15	-	ditto	34.15	-		
	c) above 3.0' to 4.0' F.S. (900 mm to 1200mm) depth	Each	45.55	-	ditto	45.55	-		
	d) above 4.0' (1200 mm) F.S. depth	ditto	113.85	-	ditto	113.85	-		
41	Staking and bushing from canal plantation, royalty to be paid to Forest Department or cost to private owner, if and when required:-								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
a)	i) Cutting and supply unsharpened pegs 3.5' (1.07 m) long, 3" to 6" (75 to 150 mm) dia, within one mile (1.6 Km) lead.	100 Nos	1473.10	1505.65	% Nos	1473.10	1505.65		
	ii) Sharpening one end of 3.5' (1.07 m) long pegs, 3" to 6" (75 to 150 mm) dia.	100 Nos	629.40	-	100 Nos	629.40	-		
	iii) Driving pegs 3.5' (1.07 m) long, 3" to 6" (75 to 150 mm) dia (driven 1.0' (300 mm) below the available bed or ground (average).	100 Nos	937.30	-	100 Nos	937.30	-		
	iv) Tying pegs with Munj, Patha ban (one line, including tying around the pegs).	Per Chain of One Row	73.65	104.85	Per 30 Metre of one row	73.65	104.85		
	v) Cutting and supplying brush wood from canal plantation or private owners, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	1023.00	1197.85	ditto	1023.00	1197.85		
b)	i) Cutting and supplying unsharpened pegs 4.0' (1.20 m) long, 3" to 6" (75 to 150 mm) dia, from canal plantation, lead within one mile (1.6 Km).	100 Nos	86.85	123.85	100 Nos	86.85	123.85		
	ii) Sharpening one end of 4' (1.20 M) long pegs, 3" to 6" (75 to 150 mm) dia.	100 Nos	629.40	-	100 Nos	629.40	-		
	iii) Driving pegs 4' (1.20 m) long, 3" to 6" (75 to 150 mm) dia (driven 1.0' (300 mm) below the available bed or ground (average).	100 Nos	1099.65	-	100 Nos	1099.65	-		
	iv) Tying pegs with Munj, Patha ban (one line, including tying around the pegs).	Per Chain of one row	73.65		Per 30 M of one row	73.65			
	v) Cutting and supplying brush wood from canal plantation or private source, lead within one mile (1.6 Km). and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	2678.30		ditto	2678.30			
c)	i) Cutting and supplying unsharpened pegs 5.0' (1.5 m) long, 3" to 6" (75 to 150 mm) dia, from canal plantation, lead within one mile (1.6 Km).	100 Nos	108.60	154.95	100 Nos	108.60	154.95		
	ii) Sharpening one end of 5' (1.5 m) long pegs, 3" to 6" (75 to 150 mm) dia.	100 Nos	662.85	-	100 Nos	662.85	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iii) Driving pegs 5' (1.5 m) long, 3" to 6" (75 to 150 mm) dia (driven 1.5' (450 mm) below the available bed or ground (average).	100 Nos	1258.75	-	100 Nos	1258.75	-		
	iv) Tying pegs with Munj, Patha ban (one line, including tying around the pegs).	Per Chain of one row	73.65	104.85	Per 30 M of one row	73.65	104.85		
	v) Cutting and supplying brush wood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	Per chain of one row	1255.30	1499.90	Per 30 M of one row	1255.30	1499.90		
d)	i) Cutting and supplying unsharpened pegs 6.0' (1.8 m) long, 3" to 6" (75 to 150 mm) dia, from canal plantation, lead within one mile (1.6 Km).	100 Nos	2946.25	3001.85	100 Nos	2946.25	3001.85		
	ii) Sharpening one end of 6' (1.8 m) long pegs, 3" to 6" (75 to 150 mm) dia.	100 Nos	788.75	-	100 Nos	788.75	-		
	iii) Driving pegs 6' (1.8 m) long, 3" to 6" (75 to 150 mm) dia (driven 1.75' (530 mm) below the available bed or ground (average).	100 Nos	1510.50	-	100 Nos	1510.50	-		
	iv) Tying pegs with Munj, Patha ban (one line, including tying around the pegs).	Per Chain of one row	73.65	104.85	Per Chain of one row	73.65	104.85		
	v) Cutting and supplying brush wood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	3046.55	3343.60	ditto	3046.55	3343.60		
e)	i) Cutting and supplying unsharpened pegs 6'-1" to 8.0' long (1.85 to 2.45 m), 4" to 8" (100 to 200 mm) dia, from canal plantation, lead within one mile (1.6 Km).	100 Nos	2209.70	2325.00	100 Nos	2209.70	2325.00		
	ii) Sharpening one end of 6'-1" to 8.0' (1.85 to 2.45m) long pegs, 4" to 8" (100 to 200 mm) dia.	100 Nos	1007.00	-	100 Nos	1007.00	-		
	iii) Driving pegs 6'-1" to 8.0' (1.85 to 2.45 m) long, 3" to 6" (75 to 150 mm) dia driven 2' (600 mm) below the available bed or ground (average).	100 Nos	1665.85	-	100 Nos	1665.85	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iv) Tying pegs with Munj, Patha ban (one line, including tying around the pegs).	Per chain of one row	73.65	90.95	Per 30 M of one row	73.65	90.95		
	v) Cutting and supplying brush wood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	Per Chain of one row	3465.00	3814.45	Per 30 M of one row	3465.00	3814.45		
42	Staking with Bamboo from market and bushing from canal plantation or private source (royalty of brushwood to be paid to Forest Department or cost to private owner, if and when required):-								
a)	i) Supplying Bamboos 8'-1" to 10.0' (2.46 to 3.05 m) long, 2½" to 5" (63 m to 125 mm) dia.	100 Nos	7200.00	-	100 Nos	7200.00	-		
	ii) Sharpening one end of 8'-1" to 10.0' (2.46 to 30.5 m) long Bamboos, 2½" to 5" (63 to 125 mm) dia.	100 Nos	881.15	-	100 Nos	881.15	-		
	iii) Driving Bamboos 8'-1" to 10.0' (2.46 to 3.05 m) long 2½" to 5" (63 to 125 mm) dia, driven 2.5' (750 mm) below the available bed or ground (average).	100 Nos	1825.20	-	100 Nos	1825.20	-		
	iv) Tying Bamboos 2½" to 5" (63 to 125 mm) dia with Munj, Patha Ban, two lines, including tying around the Bamboos.	Per Chain of one row	110.50	159.45	Per 30 M of one Row	110.50	159.45		
	v) Cutting and supplying brushwood from canal plantation or private source, lead within one mile (1.6 Km), and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	4251.70	4705.55	ditto	4251.70	4705.55		
b)	i) Supplying Bamboos 10'-1" to 12.0' (3.07 to 3.66 m) long, 2½" to 5" (63 to 125 mm) dia.	100 Nos	-	10800.00	100 Nos	-	10800		
	ii) Sharpening one end of 10'-1" to 12.0' (3.07 to 3.66 m) long Bamboos, 2½" to 5" (63 to 125 mm) dia.	100 Nos	1007.00	-	100 Nos	1007.00	-		
	iii) Driving Bamboos 10'-1" to 12.0' (3.07 to 3.66 m) long 2½" to 5" (63 to 125 mm) dia, driven 2.75' (840 mm) below the available bed or ground (average).	100 Nos	1980.55	-	100 Nos	1980.55	-		
	iv) Tying Bamboos 2½" to 5" (63 to 125 mm) dia with S.W.G. No. 10 wire, two lines, including tying around the Bamboos and third tie around the top end only.	Per chain of one row	368.30	1177.00	Per 30 M of one Row	368.30	1177.00		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	v) Cutting and supplying brushwood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	5197.50	5774.10	ditto	5197.50	5774.10		
c)	i) Supplying Bamboos 12'-1" to 14.0' (3.68 to 4.27 m) long, 2½" to 5" (63 to 125 mm) dia.	100 Nos	-	11400.00	100 Nos	-	11400.00		
	ii) Sharpening one end of 12'-1" to 14.0' (3.68 to 4.27 m) long Bamboos, 2½" to 5" (63 to 125 mm) dia.	100 Nos	1132.90	-	100 Nos	1132.90	-		
	iii) Driving Bamboos 12'-1" to 14.0' (3.68 to 4.27 m) long 2½" to 5" dia, driven 3.5' (1.07 mm) below the available bed or ground (average).	100 Nos	2265.75	-	100 Nos	2265.75	-		
	iv) Tying Bamboos 2½" to 5" (63 to 125 mm) dia with S.W.G. No. 10 wire, two lines, including tying around the Bamboos and third tie around the top end only.	Per chain of one row	368.30	1177.00	Per 30 M of one row	368.30	1177.00		
	v) Cutting and supplying brushwood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	6143.30	6807.30	ditto	6143.30	6807.30		
d)	i) Supplying Bamboos 14'-1" to 16.0' (4.30 to 4.90 m) long, 2½" to 5" (63 to 125 mm) dia.	100 Nos	-	12600.00	100 Nos	-	12600.00		
	ii) Sharpening one end of 14'-1" to 16.0' (4.30 to 4.90 m) long Bamboos, 2½" to 5" (63 to 125 mm) dia.	100 Nos	1258.75	-	100 Nos	1258.75	-		
	iii) Driving Bamboos 14'-1" to 16.0' long (4.30 to 4.90m) 2½" to 5" (63 to 125 mm) dia, driven 4' (1.20 m) below the available bed or ground (average).	100 Nos	2517.50	-	100 Nos	2517.50	-		
	iv) Tying Bamboos 2½" to 5" (63 to 125 mm) dia with S.W.G. No. 10 wire, two lines, including tying around the Bamboos and third tie around the top end only.	Per Chain of one Row	368.30	1177.00	Per 30 M of one Row	368.30	1177.00		
	v) Cutting and supplying brushwood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	7077.30	7846.10	ditto	7077.30	7846.10		
e)	i) Supplying Bamboos 16'-1" to 20' (4.9 to 6.10 m) long, 2½" to 5" (63 to 125 mm) dia.	100 Nos	-	13200.00	100 Nos	-	13200.00		
	ii) Sharpening one end of 16'-1" to 20' (4.9 to 6.10 m) long Bamboos, 2½" to 5" (63 to 125 mm) dia.	100 Nos	1510.50	-	100 Nos	1510.50	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iii) Driving Bamboos 16'-1" to 20' long (4.9 to 6.10 m) 2½" to 5" (63 to 125 mm) dia, driven 4' (1.20 m) below the available bed or ground (average).	100 Nos	3021.00	-	100 Nos	3021.00	-		
	iv) Tying Bamboos 2½" to 5" (63 to 125 mm) dia with S.W.G. No. 10 wire, two lines, including tying around the Bamboos and third tie around the top end only.	Per Chain of one row	368.30	1177.00	Per 30 M of one row	368.30	1177.00		
	v) Cutting and supplying brushwood from canal plantation or private source, lead within one mile (1.6 Km) and wattling between stakes and intertwining (thickness of wattled brushwood 1.0' (300 mm) average).	ditto	8871.70	9850.10	ditto	8871.70	9850.10		
43	Cutting and supplying brushwood from canal plantation or from any other source, within one mile (1.6 Km).	100Cft.	368.30	438.05	cu.m	130.10	154.70		Royalty to be paid to the Forest Department or cost to the private owner, if and when required.
44	Filling brush wood only, thoroughly packed.	100Cft.	294.60	-	cu.m	104.05	-		Measured in compacted and packed shape before filling.
45	Covering road 10' to 12' (3.00 to 3.65 m) wide, with 3" (75 mm) sarkanda or jungle upto one chain lead (30 m).	Per Chain	707.10	-	Per 30 M	707.10	-		
46	a) Gachi pitching 1' (300 mm) thick.	100Sft.	3830.10	-	Sq.m	412.10	-		
	b) Gachi pitching done with silt clearance and berm dressing.	100Sft.	3240.85	-	Sq.m	348.70	-		



# 17. OUTLETS

Rates for all finished works include the removal of surplus debris, unused material and byproducts.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Earthwork for outlets, excavation refilling, ramming and puddling:-							17.1 to 17.5	Includes consolidation of earth after refilling.
a)	channels, discharge upto 50 cusecs.	Job	1227.60	-	Job	1227.60	-		
b)	channels, discharge from 51 to 100 cusecs.	Job	1620.45	-	Job	1620.45	-		
c)	channels, discharge from 101 to 200 cusecs.	Job	2455.20	-	Job	2455.20	-		
d)	channels, discharge from 201 to 350 cusecs.	Job	3314.50	-	Job	3314.50	-		
e)	channels, discharge over 350 cusecs.	Job	4910.40	-	Job	4910.40	-		
2	Dismantling outlets:-							18.1	These rates are for total dismantlement and removal of material. The rates do not include earth work for which rates are given in item 1, above.
a)	old types, such as K.G.O's orifices, etc.	Each	1227.60	-	Each	1227.60	-		
b)	A.P.M. or O.F., "H" upto 2.0 ft. (600 mm)	ditto	1841.40	-	ditto	1841.40	-		
c)	A.P.M. or O.F., "H" from 2.1 ft. to 3.0'. (630 mm to 900 mm)	ditto	2455.20	-	ditto	2455.20	-		
d)	A.P.M. or O.F., "H" above 3.0'. (900 mm)	ditto	3069.00	-	ditto	3069.00	-		
e)	Tail cluster bifurcation	ditto	1841.40	-	ditto	1841.40	-		
f)	Tail cluster trifurcation	ditto	2455.20	-	ditto	2455.20	-		
g)	Tail cluster quardification	ditto	3069.00	-	ditto	3069.00	-		
3	Making temporary A.P.M. bricks block and fixing at site.	Each	519.25	872.65	Each	519.25	872.65	21.1 & 21.2	
4	Dismantling walls, taking out temporary A.P.M. brick block, fixing iron block and rebuilding dismantled walls.	Job	1091.40	-	Job	1091.40	-	18.1, 21.1 & 21.2	
5	Dismantling walls and fitting iron block of O.F. outlet.	Each	1091.40	-	Each	1091.40	-	18.1, 21.1 & 21.2	
6	Constructing, watching and removing bund for outlet built in running water:-							17.1 to 17.2	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	a) upto 3.0' (0.300 m) depth	Each	2946.25	-	Each	2946.25	-		
	b) above 3.0' (0.300 m) depth	ditto	3977.40	-	ditto	3977.40	-		
7	Adjusting "B" of tail cluster by dismantling and rebuilding throat walls.	Each	591.45	1081.30	Each	591.45	1081.30	18.1, 21.1 & 21.2	
8	Adjusting "Y" of an A.P.M. outlet, including dismantling and rebuilding.	Each	1155.00	1950.60	Each	1155.00	1950.60	ditto	
9	Extra labour in fixing A.P.M. and O.F. outlet blocks, including dressing of bricks:-							21.1 & 21.2	Rates to be Rs. 4.00 less in case of O.F. outlets, where there is no O.F. iron block.
	a) for channel depth of 5.0'. (1.5 m)	Each	1258.75	1402.50	Each	1258.75	1402.50		
	b) for channel depth of 4.0'. (1.2 m)	ditto	944.05	1087.85	ditto	944.05	1087.85		
	c) for channel depth of 3.0'. (900 mm)	ditto	755.25	899.00	ditto	755.25	899.00		
	d) for channel depth of 2.0'. (600 mm)	ditto	629.40	741.10	ditto	629.40	741.10		
	e) for channel depth of less than 2.0'. (600 mm)	ditto	503.50	583.20	ditto	503.50	583.20		
10	Repairing damaged reducing collar of Hume pipe outlets.	Each	519.25	733.45	Each	519.25	733.45		
11	Laying iron pipes for outlets.	Per Lft.	25.20	-	Metre	82.60	-	21.1, 21.2 & 17.1 to 17.5	
12	Water allowance for constructing outlets or culverts, when canal water is not flowing.	Each	599.05 to 1227.60		Each	599.05 to 1227.60			At the discretion of the Engineer-in-charge depending upon the distance and source of supply.
13	Hoisting and placing R.C. slab or stone in position on outlets or W.C. culverts.	Each	430.75	-	Each	430.75	-		
14	Fixing pipe outlet, including back filling of earth and puddling:-							17.1 to 17.5 & 21.1 to 21.2	
	a) portion under bank.	Rft.	112.15	121.75	Metre	367.95	399.4		
	b) portion under road, beyond bank.	ditto	48.00	57.55	ditto	157.45	188.9		
15	Removing pipe outlet, refilling earth and puddling.							17.1 to 17.5	
	a) portion under bank.	Rft.	98.20	-	Metre	322.20	-		
	b) portion under road, beyond bank.	ditto	36.85	-	ditto	120.85	-		
16	Changing pipe outlets by removing one pipe and replacing it at the same site with another pipe complete with earth and puddling.								
	a) portion under bank.	Rft.	133.90	143.50	Metre	439.35	470.8		
	b) portion under road, beyond bank.	ditto	66.95	76.55	ditto	219.70	251.15		

# 18. ROAD & ROAD STRUCTURE

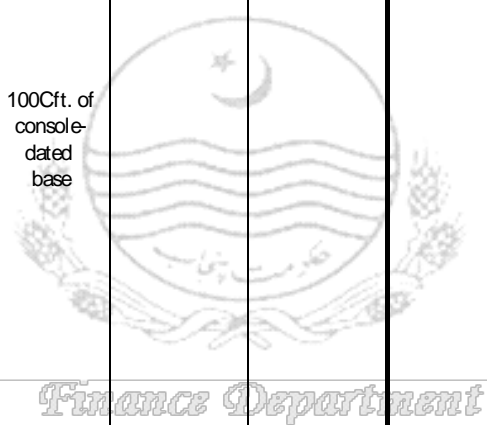
- 1 Specification No. correspond to Book of "Standard Specification for Road and Bridge Construction 1971".
- 2 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 3 The rates include the provision and maintenance of field test laboratory, pay of laboratory staff, cost of material for testing, etc.

## MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	Sub-base & base construction								
1	Providing and laying sub-base course of brick on edge 4½" (113 mm) thick, including compaction to required camber and grade.	100Cft.	3441.30	16216.50	cu.m	1215.50	5727.70	521-1 to 521-6	The nominal thickness of bricks shall be taken for the purpose of measurement and payment.
2	Providing and laying sub-base course of brick aggregate, including compaction of sub-base course material to required depth, camber, grade & density.	100Cft.	2525.00	4070.60	cu.m	891.85	1437.75	501-1 to 501-6	To be used only when brick aggregate is cheaper than stone aggregate.
3	a) Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate.							ditto	
	i) Pit run or bed run gravel.	100Cft.	2525.00	2993.00	cu.m	891.85	1057.15		
	ii) Crushed stone aggregate.	100Cft.	2525.00	3677.00	cu.m	891.85	1298.70		
	(b) Subsequent carriage of gravel and crushed stone aggregate	100Cft. of consolidated sub-base							1) The carriage of the whole distance to the site of work shall be calculated on the basis of the rates of the actual means of transport used in carriage, i.e. road and/or rail, as the case may be.  2) It shall be payable from the nearest approved quarry. 3) The quantity of pit run or bed run gravel and crushed stone

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
4	a) Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate.	100Cft.	2943.45	6040.65	cu.m	1039.65	2133.55	501-1 to 501-6	aggregate for payment of carriage shall be taken as per actual loose volume but not more than 120 Cft.
	b) Subsequent carriage of crushed stone aggregate.	100Cft. of consolidated base							1) The carriage for the whole distance to the site of work shall be calculated on the basis of the rates of the actual means of transport used in carriage, i.e. road and/or rail, as the case may be.  2) It shall be payable from the nearest approved quarry. 3) The quantity of crushed stone aggregate for payment of carriage shall be taken as per actual loose volume but not more than 122 Cft.
5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	Per Rft.	8.35	33.95	Metre	27.45	111.35	552-1 to 552-5	
<b><u>Bituminous Work &amp; Resurfacing.</u></b>									
6	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	100Sft.	147.30	667.45	sq.m	15.85	71.80	601-1 to 601-6	
7	Providing and laying bituminous tack coat, using 10 lbs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq.m.)	100Sft.	147.30	431.80	sq.m	15.85	46.45	611-1 to 611-5	
8	a) Providing surface treatment to roads, including supply of bitumen and bajri/crushed stone aggregate of approved quality, including cleaning of road surface, heating and spraying bitumen, spreading bajri and rolling with road roller (including its operation cost, fuel and hire charges, etc.) etc. complete including carriage of all materials to site of work except bajri/crushed stone aggregate.							612-1 to 612-6	



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	1) 1st coat:-								
	i) 40 lbs. bitumen, and 5.5 Cft. bajri of nominal size 1" (25 mm) per 100 sq. feet or 1.96 Kg bitumen and 0.017 cu.metre bajri per square metre.	100Sft.	129.65	1674.75	Sq.m	13.95	180.20		
	ii) 35 lbs. bitumen, and 4.0 Cft. bajri of nominal size ¾" (20 mm) per %Sft. or 1.72 Kg bitumen and 0.013 cu.metre bajri per sq.metre.	100Sft.	129.65	1453.50	Sq.m	13.95	156.40		
	2) 2nd coat:-								
	i) 25 lbs. bitumen, and 2.75 Cft. bajri of nominal size ½" (13 mm) per %sft or 1.23 Kg bitumen and 0.008 cu. metre bajri per sq.metre.	100Sft.	99.70	1041.50	Sq.m	10.75	112.05		
	ii) 18 lbs. bitumen, and 2.0 Cft. bajri of nominal size 3/8" (10 mm) per %Sft. or 0.89 Kg bitumen and 0.006 cu.metre bajri per sq. metre.	100Sft.	99.70	778.55	Sq.m	10.75	83.75		
	3) 3rd coat:-								
	14 lbs. bitumen, and 1.5 Cft. bajri of nominal size ¼" (6 mm) per %sft or 0.69 Kg bitumen and 0.005 cubic metre bajri per sq.metre.	100Sft.	68.25	594.00	sq.m	7.35	63.90		
	b) Subsequent carriage of crushed stone aggregate/bajri ,	100Cft.			cu.m			1) The carriage for the whole distance to the site of work shall be calculated on the basis of the rates of the actual means of transport used in carriage, i.e. road and/or rail, as the case may be.  2) It shal be payable from the nearest approved quarry.	

*Finance Department*

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
9	a) Resurfacing of road, including supply of bitumen and bajri/crushed stone aggregate of approved quality, including cleaning of road surface, heating and spraying of bitumen, and spreading bajri/crushed stone aggregate and rolling with road roller (including its operation cost, fuel and hire charges, etc.) complete, including carriage of all materials to site of work.							612-1 to 612-6	
	i) 22 lbs. bitumen, and 2.5 Cft. bajri of nominal size ½" (13 mm) per %Sft. or 1.07 Kg bitumen and bajri 0.007 cu.m per sq.m.	100Sft.	86.45	917.90	sq.m	9.30	98.75		
	ii) 20 lbs. bitumen, and 2.0 Cft. bajri of nominal size 3/8" (10 mm) per % Sft. or 0.79 Kg bitumen and 0.006 cu.metre bajri per sq.metre.	100Sft.	86.45	831.90	sq.m	9.30	89.50		
	b) Subsequent carriage of crushed stone aggregate/bajri.	100Cft.			cu.m				Same remarks as against item 8(b) above.
10	a) Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density.	per inch thickness per 100Sft.			per 25mm thickness per Sq.m			641-1 to 642-6	
	(i) 3% Bitumen	-do-	805.85	2283.25	-do-	86.75	245.75		
	(ii) 3.5% Bitumen	-do-	805.85	2456.80	-do-	86.75	264.45		
	(iii) 4% Bitumen	-do-	805.85	2630.35	-do-	86.75	283.15		
	(iv) 4.5% Bitumen	-do-	805.85	2803.85	-do-	86.75	301.80		
	(v) 5% Bitumen	-do-	805.85	2977.30	-do-	86.75	320.45		
	(vi) 5.5% Bitumen	-do-	805.85	3150.95	-do-	86.75	339.15		
	(vii) 6% Bitumen	-do-	805.85	3324.50	-do-	86.75	357.85		
	b) Subsequent carriage of crushed stone aggregate/bajri.	100Cft.			cu.m			Same remarks as against item 8(b) above.	
11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Sft.	245.50	-	Sq.m	26.40	-		
<b><u>Incidental Construction</u></b>									
12	Providing R.C.C. railing on bridges, as per standard drawing.	Per Rft.	129.45	869.60	Metre	424.75	2853.00	901-1 to 901-4	The rate includes cost of steel, its fabrication, laying in position and fastening, including cost of binding wire and removal of rust from the bars, etc.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
13	Providing and fixing G.I. pipe railing, as per standard drawing.	Per Rft. of 3 rows of Pipes	101.50	705.15	Metre	333.05	2313.50	ditto	
14	Providing and fixing steel bearings of standard quality and type at site of work.	Each Set of one end	-	2400.00	Each set of one end	-	2400.00	911-1 to 911-6	
15	Providing and fixing rubber bearing pad at site of work.	Per Cu. Inch	-	18.00	cu.cm	-	1.10	ditto	
16	Providing and laying expansion joint of neoprine strip 4" x 1/4" (100 mm x 6 mm) and plastic bitumen.	Per Rft.	83.70	172.10	Metre	274.55	564.55	921-1 to 921-4	
17	Providing and fixing rain water outlet of A.C. pipe.	Each	41.85	346.20	Each	41.85	346.20	931-1 to 933-4	
18	Providing and erection at site of work:-							941-1 to 941-5	The rate is for complete item of work according to Standard design including cement concrete foundation block and painting letters etc.
	i) R.C.C. mile/Km. stone	Each	2485.15	4778.60	Each	2485.15	4778.60		
	ii) R.C.C. furlong/1/2 Km. stone	Each	120.95	346.85	Each	120.95	346.85		
	iii) R.C.C. boundary pillar.	Each	234.35	591.10	Each	234.35	591.10		
	iv) Sign post of M.S. plate 1/8" thick (3 mm)								
	a) Mandatory. b) Warning/Direction/Informatory.	Each	797.60 772.45	4535.10 4268.55	Each	797.60 772.45	4535.10 4268.55		
19	Providing and laying dry brick pavement/soling in streets or roads, etc. sand grouted, laid in proper camber, including preparation, watering, compaction of bed to proper camber, and sand cushion.	100Cft.	3157.55	15932.75	cu.m	1115.25	5627.45		The nominal thickness of bricks (9" x 4-3/8" x 2-11/16") shall be taken for the purpose of measurement and payment.

# 19. PLUMBING, SANITARY INSTALLATION & GAS FITTINGS

- 1 Rates for all finished works include the removal of surplus debris, unused material & by products.
- 2 The material used shall conform to Schedule of Rates, Vol. I, Part I, (Specifications for Materials of Construction, 1964, and the work will be executed according to Buildings & Roads Department Specifications, Vol II, 1966 (Public Health Works).
- 3 The rates include cutting and making good of the surface of walls, roof, floor, etc. where necessary.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-								
	i) white	Each	418.45	2,154.15	Each	418.45	2,154.15		
	ii) coloured	Each	418.45	2,340.15	Each	418.45	2,340.15		
2	Providing and fixing, double seat and cover only.								
	i) bakelite	Each	4.35	334.35	Each	4.35	334.35		
	ii) plastic	Each	4.35	232.35	Each	4.35	232.35		
3	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.								
	i) white	Each	301.30	1,215.60	Each	301.30	1,215.60		
	ii) coloured	Each	301.30	1,419.60	Each	301.30	1,419.60		
4	Providing and fitting white glazed earthen ware water closet, squatter type, with separate foot rest.	Each	301.30	2,053.30	Each	301.30	2,053.30		
5	Providing and fitting water closet, squatter type of terrazzo concrete.	Each	301.30	639.60	Each	301.30	639.60		
6	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.								
	i) white, with pedestal	Each	393.35	2,499.35	Each	393.35	2,499.35		
	ii) coloured, with pedestal	Each	393.35	2,685.35	Each	393.35	2,685.35		
	iii) white, without pedestal	Each	347.35	1,751.35	Each	347.35	1,751.35		
	iv) coloured, without pedestal	Each	347.35	1,799.35	Each	347.35	1,799.35		
7	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	347.35	4,439.45	Each	347.35	4,439.45		
8	Providing and fitting terrazzo concrete sink 60x45 cm (24"x18") with drain board of mosaic, including bracket set, waste pipe and waste coupling.	Each	347.35	1,139.85	Each	347.35	1,139.85		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
9	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling:-								
	i) 60x45 cm (24"x18")	Each	347.35	1,716.75	Each	347.35	1,716.75		
	ii) 37.5x45 cm (15"x18")	Each	347.35	1,536.75	Each	347.35	1,536.75		
10	Providing and fixing glazed earthen ware flat back urinal.	Each	209.20	912.10	Each	209.20	912.10		
11	Providing and fitting glazed earthen ware low down flushing cistern 13,63 litres (3 gallons) capacity, including bracket set, copper connection, etc.								
	i) white	Each	347.35	1,347.35	Each	347.35	1,347.35		
	ii) coloured	Each	347.35	1,425.35	Each	347.35	1,425.35		
12	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.								
	i) white	Each	347.35	1,185.35	Each	347.35	1,185.35	If rubber connection is used, the composite rate will be reduced by Rs. 12.50	
	ii) coloured	Each	347.35	1,185.35	Each	347.35	1,185.35		
13	Providing and fixing white enameled cast iron low down flushing cistern 13.63 litres (3 gallons) capacity, including bracket set, copper connection, etc.	Each	347.35	1,372.05	Each	347.35	1,372.05		
14	Providing and fixing cast iron high level flushing cistern including cost of bracket set, copper connection, etc.								
	i) 13.63 litres (3 gallons) capacity	Each	368.25	2,491.00	Each	368.25	2,491.00		
	ii) 4.55 litres (1 gallon) capacity	Each	368.25	1,651.00	Each	368.25	1,651.00		
15	Providing and fixing, chromium plated soap dish.	Each	20.90	193.00	Each	20.90	193.00		
16	Providing and fitting, glazed earthen ware soap dish.								
	i) white	Each	20.90	481.00	Each	20.90	481.00		
	ii) coloured	Each	20.90	229.00	Each	20.90	229.00		
17	Providing and fixing, chromium plated toilet paper holder.	Each	27.90	413.30	Each	27.90	413.30		
18	Providing and fixing, chromium plated towel rail:-								
	i) 60 cm (24") long, and 2 cm (¾") dia.	Each	27.90	357.95	Each	27.90	357.95		
	ii) 50 cm (20") long, and 1.5 cm (½") dia.	Each	27.90	297.95	Each	27.90	297.95		
19	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality.	Each	52.3	384.45	Each	52.3	384.45		

Finance Department

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
20	Providing and fixing glass shelf 60x13 cm (24"x5"), with 5mm thick glass:-								
	i) with chromium plated brackets and railing.	Each	65.40	388.40	Each	65.40	388.40		
	ii) glass shelf only, without chromium plated brackets and railing.	Each	41.85	87.45	Each	41.85	87.45		
21	Providing and fitting glazed earthen ware shelf 60x13 cm (24"x5"), with chromium plated bracket and railing:-								
	i) White	Each	65.40	942.80	Each	65.40	942.80		
	ii) Coloured	Each	65.40	1,074.80	Each	65.40	1,074.80		
22	Providing and fitting:-								
	i) plastic soap dish	Each	20.90	160.65	Each	20.90	160.65		
	ii) plastic toilet paper holder	Each	27.90	226.10	Each	27.90	226.10		
	iii) plastic towel rail	Each	27.90	250.10	Each	27.90	250.10		
	iv) plastic shelf 60x13 cm (24"x5") with bracket and railing.	Each	27.90	431.65	Each	27.90	431.65		
23	Providing and fixing chromium plated pillar-cock, heavy:-								
	i) 2 cm (¾")	Each	27.90	543.90	Each	27.90	543.90		
	ii) 1.5 cm (½")	Each	27.90	699.90	Each	27.90	699.90		
24	Providing and fixing chromium plated stop cock, heavy:-								
	i) 2 cm (¾")	Each	27.90	279.90	Each	27.90	279.90		
	ii) 1.5 cm (½")	Each	27.90	183.90	Each	27.90	183.90		
25	Providing and fixing underground stop cock 13 mm (½"), with chromium plated cover.	Each	41.00	495.25	Each	41.00	495.25		
26	Providing and fixing chromium plated bib cock:-								
	i) 2 cm (¾")	Each	27.90	351.90	Each	27.90	351.90		
	ii) 1.5 cm (½")	Each	27.90	333.90	Each	27.90	333.90		
27	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	27.90	453.90	Each	27.90	453.90		
28	Providing and fixing chromium plated shower rose:-								
	i) 1.5x10 cm (½"x4")	Each	27.90	333.90	Each	27.90	333.90		
	ii) 2x15 cm (¾"x6")	Each	27.90	411.90	Each	27.90	411.90		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
29	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	34.85	1,558.85	Each	34.85	1,558.85		
30	Providing and fixing gun metal peet/gate valve (screwed):-								For brass peet/gate valve (screwed), the composite rates of items (i) to (v) will be reduced by Rs. 66, 77, 95, 107 and 120 respectively.
	i) 30 mm (1¼") dia	Each	41.85	443.85	Each	41.85	443.85		
	ii) 40 mm(1½") dia	Each	41.85	593.85	Each	41.85	593.85		
	iii) 50 mm(2") dia	Each	41.85	821.85	Each	41.85	821.85		
	iv) 65 mm(2½") dia	Each	41.85	1,289.85	Each	41.85	1,289.85		
	v) 80 mm(3") dia	Each	41.85	1,901.85	Each	41.85	1,901.85		
31	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia.								
	i) single way	Each	27.90	375.90	Each	27.90	375.90		
	ii) two way	Each	41.85	641.85	Each	41.85	641.85		
	iii) three way	Each	55.80	781.80	Each	55.80	781.80		
32	Providing and fixing, union brass cock.								
	i) 13 mm (½") dia	Each	27.90	147.90	Each	27.90	147.90		
	ii) 20 mm (¾") dia	Each	27.90	231.90	Each	27.90	231.90		
33	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-								
	i) 10x5 cm (4"x2")	Each	83.70	403.75	Each	83.70	403.75		
	ii) 10x7.5 cm (4"x3")	Each	83.70	403.75	Each	83.70	403.75		
34	Providing and fitting "P" trap:-								
	i) 10 cm (4") of cast iron.	Each	69.75	467.75	Each	69.75	467.75		
	ii) 10 cm (4") glazed.	Each	69.75	137.75	Each	69.75	137.75		
35	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	104.60	691.85	Each	104.60	691.85		
36	Providing and fitting, cast iron soil pipe with:-								
	i) lead caulked, yarn joint:-								
	a) 10 cm (4") i/d	Per foot	35.20	232.40	Metre	115.50	762.25		
	b) 5 cm (2") i/d	Per foot	14.10	98.50	Metre	46.20	323.10		
	ii) cement caulked joint:-								
	a) 10 cm (4") i/d	Per foot	7.80	148.75	Metre	25.55	487.95		
	b) 5 cm (2") i/d	Per foot	3.10	81.85	Metre	10.20	268.45		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
37	Providing and fitting, A.C. soil pipe with cement caulked joint, including all specials:-								
	i) 60 (2¼)" mm i/d	Per foot	6.25	30.90	Metre	20.40	101.30		
	ii) 80 (3") mm i/d	Per foot	6.90	71.85	Metre	22.70	235.60		
	iii) 100 (4") mm i/d	Per foot	7.80	106.75	Metre	25.55	350.15		
	iv) 150 (6") mm i/d	Per foot	10.40	132.90	Metre	34.05	435.90		
38	Providing and fitting cast iron specials, such as tee bend, collar, cross, etc. plain type:-								
	i) lead caulked joint	Kg	28.70	156.95	Kg	28.70	156.95	In case of plug type, the composite rate shall be increased by Rs.2 per kg.	
	ii) cement caulked joint	Kg	17.50	116.45	Kg	17.50	116.45		
39	Supply and fitting of cast iron manhole cover with frame, etc. complete.								
	i) 30 cm (12") dia	Each	41.85	197.85	Each	41.85	197.85		
	ii) 45 cm (18") dia	Each	41.85	869.85	Each	41.85	869.85		
	iii) 60 cm (24") dia	Each	68.05	1,472.05	Each	68.05	1,472.05		
40	Providing and fitting R.C.C. pipe 10 cm (4") dia, including laying and jointing in trenches.	Per foot	17.60	65.60	Metre	57.75	215.20		
41	Providing and fitting chromium plated or oxidised, gas cock 6mm (¼"):-								
	i) single way	Each	27.90	201.90	Each	27.90	201.90		
	ii) two way	Each	41.85	305.85	Each	41.85	305.85		
	iii) three way	Each	55.80	499.80	Each	55.80	499.80		
42	Providing and fitting nipple or bush, 6 mm to 10 mm (¼" to 3/8") i/d.	Each	20.90	51.80	Each	20.90	51.80		
43	Providing and fixing, brass gas cock:-								
	a) 15 mm (½") dia	Each	4.35	94.35	Each	4.35	94.35		
	b) 20 mm (¾") dia	Each	158.50	106.35	Each	158.50	106.35		
44	Providing and fixing brass stop cock/bib cock:-								
	a) 15 mm (½") dia	Each	6.95	84.95	Each	6.95	84.95		
	b) 20 mm (¾") dia	Each	6.95	126.95	Each	6.95	126.95		
45	Hoisting and placing in position, precast R.C. latrine seats.	Each	418.45	-	Each	418.45	-		
	<b>Replacement</b>								
1	Providing and fixing, chromium plated waste coupling:-								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) 3 cm (1¼")	Each	41.85	125.85	Each	41.85	125.85		
	ii) 4 cm (1½")	Each	41.85	131.85	Each	41.85	131.85		
2	Providing and fixing rubber plug with chain:-								
	i) 3 cm (1¼")	Each	1.65	48.45	Each	1.65	48.45		
	ii) 4 cm (1½")	Each	1.65	55.65	Each	1.65	55.65		
3	Providing and fixing, waste pipe of PVC:-								
	i) 3 cm (1¼")	Each	20.90	47.30	Each	20.90	47.30		
	ii) 4 cm (1½")	Each	20.90	53.30	Each	20.90	53.30		
4	Providing and fixing, flushing bend of PVC.								
	i) 3 cm (1¼")	Each	18.60	45.00	Each	18.60	45.00		
	ii) 4 cm (1½")	Each	18.60	51.00	Each	18.60	51.00		
5	Providing and fixing chromium plated bottle trap with waste pipe, etc. complete:-								
	i) 3 cm (1¼") i/d	Each	41.85	557.85	Each	41.85	557.85		
	ii) 4 cm (1½")	Each	41.85	677.85	Each	41.85	677.85		
6	Providing and fixing, angle iron brackets for:-								
	i) wash hand basin and cistern	Each	41.85	171.45	Each	41.85	171.45		
	ii) sinks	Each	41.85	188.25	Each	41.85	188.25		
7	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc.:-								
	i) plastic rubber connection	Each	16.75	49.15	Each	16.75	49.15		
	ii) copper connection	Each	16.75	87.55	Each	16.75	87.55		
8	Providing and fixing brass ball float valve:-								
	i) 1.5 cm (½") dia	Each	34.85	238.85	Each	34.85	238.85		
	ii) 2.0 cm (¾") dia	Each	34.85	304.85	Each	34.85	304.85		
	iii) 2.5 cm (1") dia	Each	34.85	364.85	Each	34.85	364.85		
	iv) 3 cm (1¼") dia	Each	34.85	394.85	Each	34.85	394.85		
	v) 4.0 cm (1½") dia	Each	34.85	550.85	Each	34.85	550.85		
	vi) 5 cm (2") dia	Each	34.85	928.85	Each	34.85	928.85		

## 20. SURFACE DRAINAGE

1. Specification No. correspond to Book of Specification (B & R Department ) Vol. 11, 1966 (public Health Works).
2. Rates for all finished works include the removal of surplus debris, unused material and by products.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Tega formed of pacca bricks on end, laid in and over cement sand mortar projecting to a height of not more than 6" (150 mm) top of drain along the property side where required, laid to lines, grades, slopes and shape according to the Engineer's drawing:-							17.1	
	a) 3" thick (75 mm)								
	i) ratio 1:3	100Rft	1,189.60	4,163.50	Metre	39.00	136.55		
	ii) ratio 1:5	ditto	1,189.60	3,970.95	ditto	39.00	130.25		
	B) 4½" thick (113 mm)								
	i) ratio 1:3	100Rft	1,784.10	6,064.85	ditto	58.50	198.95		
	ii) ratio 1:5	ditto	1,784.10	5,771.50	ditto	58.50	189.30		
2	Pacca flat brick 3" (75 mm) thick, laid in reimbursement, in cement, sand mortar, on sides of drains and in other works where required. All joints to be completely filled and struck flush:-							17.1	
	a) ratio 1:3	100Sft.	1,753.75	5,910.30	Sqm.	188.70	635.95		
	b) ratio 1:5	ditto	1,753.75	5,600.05	ditto	188.70	602.55		
	c) ratio 1:6	ditto	1,753.75	5,512.70	ditto	188.70	593.15		
3	Pacca brick on edge, laid in reimbursement, in cement, sand mortar, on sides of drains and on other works where required. All joints to be completely filled and struck flush:-							17.1	
	a) ratio 1:3	100Sft.	2,486.35	8,755.55	Sqm.	267.55	942.10		
	b) ratio 1:5	ditto	2,486.35	8,257.75	ditto	267.55	888.55		
	c) ratio 1:6	ditto	2,486.35	8,133.95	ditto	267.55	875.20		
4	Pacca flat brick, Herring bond pitching in cement, sand mortar, laid to lines, grades, shapes and slopes as per Engineer's drawing:-							17.2	
	a) ratio 1:3	100Sft.	1,689.60	5,846.15	Sqm.	181.80	629.05		
	b) ratio 1:5	ditto	1689.6	5535.9	ditto	181.8	595.65		
	c) ratio 1:6	ditto	1689.6	5448.55	ditto	181.8	586.25		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
5	Pacca brick on edge, Herring bond pitching in cement, sand mortar, laid to lines, grades, shapes and slopes as per Engineer's drawing:-							17.2	
	a) ratio 1:3	100Sft.	2,623.00	8,892.20	Sqm.	282.25	956.80		
	b) ratio 1:5	ditto	2,623.00	8,394.40	ditto	282.25	903.25		
	c) ratio 1:6	ditto	2,623.00	8,270.60	ditto	282.25	889.90		
6	Constructing Punjab Standard Drains. of cement concrete 1:2 ½ :5, with cement concrete bedding ratio 1:6:12, complete, laid to lines, grades, slopes and shapes, rendering exposed surface of concrete with 1:1 cement, sand mortar, ¼" (6 mm) thick, as per Engineer's drawing (excluding excavation):-							17.1	
	a) Type I	Per Rft	40.35	100.20	Metre	132.30	328.70		
	b) Type II	ditto	80.70	185.00	ditto	264.65	606.70		
	c) Type III	ditto	106.55	241.30	ditto	349.45	791.50		
	d) Type IV	ditto	127.00	287.75	ditto	416.60	943.80		
	e) Type V	ditto	168.00	391.65	ditto	551.10	1,284.55		
	f) Type VI	ditto	193.30	448.85	ditto	634.10	1,472.30		
	g) Type VII	ditto	214.25	494.50	ditto	702.80	1,622.05		
	h) Type VIII	ditto	239.30	554.40	ditto	784.95	1,818.40		
	i) Type IX	ditto	321.35	784.45	ditto	1,054.05	2,572.90		
	j) Type X	ditto	352.95	859.80	ditto	1,157.60	2,820.15		
	k) Type XI	ditto	394.25	956.45	ditto	1,293.15	3,137.10		
	l) Type XII	ditto	420.30	1,014.80	ditto	1,378.60	3,328.60		
7	Laying R.C.C hume pipes in position, including jointing:-								
	a) 6" to 12" (150 mm to 300 mm ) dia	Per Lft.	75.65	79.25	Metre	248.15	259.90		
	b) 12" to 24" (300 mm to 600 mm) dia	ditto	119.85	127.00	ditto	393.15	416.60		
	c) 24" to 36" (600 mm to 900 mm) dia	ditto	151.35	162.10	ditto	496.35	531.70		

# 21. SEWERAGE

- 1 Specification No. correspond to Book of Specification of B&R Department Vol. II, 1966 (Public Health Works).
- 2 Rate for all finished works include the removal of surplus debris, unused material and byproducts.

## MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911: Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.							Chapter - 8	
	i) 100 mm (4") i/d	Rft.	20.05	88.20	Metre	65.75	289.30		
	ii) 150 mm (6") i/d	Rft.	24.15	132.50	Metre	79.20	434.60		
	iii) 225 mm (9") i/d	Rft.	46.80	338.45	Metre	153.50	1110.10		
2	Providing and laying non-reinforced concrete pipe, moulded with cement concrete 1:1½:3, conforming to ASTM Specification C-14-73, Class 2, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipe where necessary, finishing and testing, etc. complete.							ditto	
	i) 100 mm (4") i/d	Rft.	15.05	55.25	Metre	49.35	181.20		
	ii) 150 mm (6") i/d	Rft.	18.10	74.10	Metre	59.35	243.05		
	iii) 200 mm (8") i/d	Rft.	29.10	100.85	Metre	95.45	330.80		
	iv) 225 mm (9") i/d wall thickness 1 inch (25 mm)	Rft.	31.20	120.15	Metre	102.35	394.10		
	v) 250 mm (10") i/d	Rft.	31.65	131.55	Metre	103.80	431.50		
3	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete.							ditto	
	i) 310 mm (12") i/d	Rft.	47.65	406.35	Metre	156.30	1332.85		
	ii) 380 mm (15") i/d	Rft.	59.80	498.95	Metre	196.15	1636.55		
	iii) 460 mm (18") i/d	Rft.	71.95	545.55	Metre	236.00	1789.40		
	iv) 530 mm (21") i/d	Rft.	90.00	697.10	Metre	295.20	2286.50		
	v) 610 mm (24") i/d	Rft.	103.55	832.10	Metre	339.65	2729.30		
	vi) 690 mm (27") i/d	Rft.	153.85	1152.30	Metre	504.65	3779.55		
	vii) 760 mm (30") i/d	Rft.	184.55	1238.60	Metre	605.30	4062.60		
	viii) 840 mm (33") i/d	Rft.	229.90	1448.50	Metre	754.05	4751.10		
	ix) 910 mm (36") i/d	Rft.	282.90	1935.40	Metre	927.90	6348.10		
	x) 1070 mm (42") i/d	Rft.	368.05	2509.25	Metre	1207.2	8230.35		
	xi) 1220 mm (48") i/d	Rft.	694.8	3373.55	Metre	2278.95	11065.25		
	xii) 1370 mm (54") i/d	Rft.	961.3	4240.3	Metre	3153.05	13908.2		
	xiii) 1520 mm (60") i/d	Rft.	1221.15	4864.45	Metre	4005.35	15955.4		
	xiv) 1680 mm (66") i/d	Rft.	1918.7	5926.35	Metre	6293.35	19438.45		
xv) 1830 mm (72") i/d	Rft.	2383.30	6755.25	Metre	7817.20	22157.20			



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
4	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class III, Wall B, including carriage of pipes from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc. complete:-							Chapter-8	
	i) 310 mm (12") i/d	Rft.	47.65	502.95	Metre	156.25	1649.70		
	ii) 380 mm (15") i/d	Rft.	59.80	618.55	Metre	196.10	2028.85		
	iii) 460 mm (18") i/d	Rft.	71.95	769.80	Metre	236.00	2524.95		
	iv) 530 mm (21") i/d	Rft.	90.00	938.80	Metre	295.20	3079.25		
	v) 610 mm (24") i/d	Rft.	103.55	1091.40	Metre	339.70	3579.80		
	vi) 690 mm (27") i/d	Rft.	153.85	1304.50	Metre	504.65	4278.75		
	vii) 760 mm (30") i/d	Rft.	184.55	1575.20	Metre	605.25	5166.65		
	viii) 840 mm (33") i/d	Rft.	229.90	1765.30	Metre	754.10	5790.20		
	ix) 910 mm (36") i/d	Rft.	282.90	2301.95	Metre	927.95	7550.40		
	x) 1070 mm (42") i/d	Rft.	368.05	2967.95	Metre	1207.25	9734.90		
	xi) 1220 mm (48") i/d	Rft.	705.55	3702.20	Metre	2314.15	12143.20		
	xii) 1370 mm (54") i/d	Rft.	976.35	4678.65	Metre	3202.45	15345.95		
	xiii) 1520 mm (60") i/d	Rft.	1239.95	5766.55	Metre	4067.10	18914.30		
	xiv) 1680 mm (66") i/d	Rft.	1948.85	7560.90	Metre	6392.15	24799.75		
	xv) 1830 mm (72") i/d	Rft.	2420.95	9367.80	Metre	7940.70	30726.40		
5	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class IV, Wall B, including carriage of pipes from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc. complete:-							Chapter - 8	
	i) 310 mm (12") i/d	Rft.	47.65	593.60	Metre	156.25	1947.05		
	ii) 380 mm (15") i/d	Rft.	59.80	742.55	Metre	196.10	2435.60		
	iii) 460 mm (18") i/d	Rft.	71.95	891.50	Metre	236.00	2924.20		
	iv) 530 mm (21") i/d	Rft.	90.00	1045.15	Metre	295.20	3428.10		
	v) 610 mm (24") i/d	Rft.	103.55	1233.90	Metre	339.70	4047.15		
	vi) 690 mm (27") i/d	Rft.	153.85	1595.40	Metre	504.65	5232.95		
	vii) 760 mm (30") i/d	Rft.	184.55	1842.25	Metre	605.25	6042.80		
	viii) 840 mm (33") i/d	Rft.	229.90	2063.95	Metre	754.10	6769.85		
	ix) 910 mm (36") i/d	Rft.	282.90	2842.15	Metre	927.95	9322.25		
	x) 1070 mm (42") i/d	Rft.	368.05	3490.35	Metre	1207.25	11448.40		
	xi) 1220 mm (48") i/d	Rft.	705.55	4402.70	Metre	2313.90	14440.90		
	xii) 1370 mm (54") i/d	Rft.	976.35	5729.45	Metre	3202.65	18792.50		
	xiii) 1520 mm (60") i/d	Rft.	1239.95	7209.10	Metre	4067.10	23645.85		
	xiv) 1680 mm (66") i/d	Rft.	1948.85	9519.90	Metre	6392.15	31225.25		
	xv) 1830 mm (72") i/d	Rft.	2420.95	11326.85	Metre	7940.70	37152.00		

Finance Department

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
6	Lowering of sub-soil water table, by installation of tubewells along sewer line and pumping out water, for excavation in open cutting below sub-soil water level, concreting, curing, laying and jointing pipes, filling haunches, etc. till the completion of sewer line, including disposal of pumped out water:-								1) This rate shall be payable, in addition to the item of excavation below SSWL for sewers and manholes under Chapter, EARTHWORK 2) The grant of these rates shall be subject to Superintending Engineer's approval.
	1) 0-1 ft. (0 to 310 mm) below SSWL	Rft of laid sewer	-	295.75	Metre of laid sewer	-	970.10		
	2) 0-2 ft. (0 to 610 mm) below SSWL	ditto	-	550.25	ditto	-	1804.75		
	3) 0-3 ft. (0 to 910 mm) below SSWL	ditto	-	952	ditto	-	3122.50		
	4) 0-4 ft. (0 to 1220 mm) below SSWL	ditto	-	1383.6	ditto	-	4538.30		3) The rate includes cost of providing pumps, POL and all operation charges at the site of work, etc.
	5) 0-5 ft. (0 to 1520 mm) below SSWL	ditto	-	1945.15	ditto	-	6380.15		
	6) 0-6 ft. (0 to 1830 mm) below SSWL	ditto	-	2405.05	ditto	-	7888.5		
	7) 0-7 ft. (0 to 2170 mm) below SSWL	ditto	-	2876.25	ditto	-	9434.15		
	8) 0-8 ft. (0 to 2480 mm) below SSWL	ditto	-	3302.25	ditto	-	10831.40		
	9) 0-9 ft. (0 to 2790 mm) below SSWL	ditto	-	3554.80	ditto	-	11659.75		
	10) 0-10 ft. (0 to 3100 mm) below SSWL	ditto	-	4104.40	ditto	-	13462.45		
	11) 0-11 ft. (0 to 3410 mm) below SSWL	ditto	-	4572.15	ditto	-	14996.65		
	12) 0-12 ft. (0 to 3720 mm) below SSWL	ditto	-	5074.60	ditto	-	16644.70		
7	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects:							16.2	Pipe connection to be paid separately.
	a) with C.I. gully trap, weighing 81 lbs. (36.75 Kg.) frame hinged safety type.	Each	841.80	3128.90	Each	841.80	3128.90		
	b) concrete Gully trap.	ditto	841.80	2903.90	ditto	841.80	2903.90		
8	Constructing standard gully grating chamber, 3'x2½' (900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	2532.75	8707.90	Each	2532.75	8707.90	ditto	Pipe connection to be paid separately.
9	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.	100Sft.	1042.75	1574.60	Sq.m	112.20	169.45	14.4	
10	Restoration of brick pavement on edge, over laid service line, with 2" (50 mm) sand cushion under soling.	100Sft.	1525.40	3339.90	Sq.m	164.15	359.40	13.1	
11	Restoration of flat brick pavement sand grouted, over 2" (50 mm) thick dry sand cushion, under soling on laid service line.	100Sft.	925.10	2224.60	Sq.m	99.55	239.35	13.1	
12	Restoration of metallled road, on laid service line, including compaction:-							13.1	
	a) Carpeted road, with 2" (50 mm) carpet and 10" (250 mm) depth of stone metal for sub-base and base.	100Sft.	2306.10	6430.80	Sq.m	248.15	691.95		
	b) Carpeted road, with 1½" (38 mm) carpet and 6" (150 mm) depth of stone metal, for sub-base and base.	100Sft.	1630.45	4705.65	Sq.m	175.45	506.35		
	c) Black Topped Road with two coats of surfacing & 10" (250 mm) depth of stone metal, for sub base & base.	100Sft.	930.80	3217.65	Sq.m	100.15	346.20		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	86.60	229.50	Each	86.60	229.50	14.7	
14	Fixing manhole frame and cover in R.C.C. slab including carriage to site.	Per set	232.80	-	Per set	232.80	-	ditto	
15	Providing and fixing 3" (75 mm) thick R.C.C. manhole cover, 22" (550 mm) dia, with tee shaped C.I. frame of 20" (500 mm) clear i/d (frame weighing 37.324 Kg. or one maund) as per Standard Drawing STD/PD No. 5, of 1977, complete in all respects.	Per set	151.05	5681.95	Per set	151.05	5681.95	ditto	
15-A	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" i/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Per set	329.85	6952.40	Per set	329.85	6952.40		
16	Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover for 22" as per standard drawing STD/PD No. 6 of 1977, complete in all respects.	Per set	295.00	2433.85	Per set	295.00	2433.85	ditto	
17	Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover with 3"x3"x¼" (75x75x6mm) angle iron frame, 22" (550 mm) i/d as per standard drawing STD/PD No. 7 of 1977, complete in all respects.	Per set	244.60	3712.30	Per set	244.60	3712.30	ditto	
18	Desilting of disposal work collecting tank, including removal of sludge within 3 chains (90 metre).	100Cft.	841.80	896.05	cum	297.30	316.50	16.2	
19	Providing and installing, C.I. ventilating shaft painted with bituminous paint with foundation bolts, as per PHED Standard Drawing STD/PD No. 4 of 1977, complete in all respects (except concrete foundation block):-							14.6	
	a) 6" (150 mm) i/d shaft								
	i) 18 ft. (5.5 metre) long	Per Cwt	236.45	6355.55	%kg	465.45	12510.95		
	ii) 24 ft. (7.30 metre) long	ditto	262.70	6390.20	ditto	517.15	12579.15		
	iii) 30 ft. (9.15 metre) long	ditto	283.75	6407.10	ditto	558.55	12612.45		
	iv) 36 ft. (11 metre) long	ditto	296.90	6421.80	ditto	584.40	12641.35		
	b) 9" (225 mm) i/d shaft								
	i) 18 ft. (5.5 metre) long	Per Cwt	210.25	6325.95	%kg	413.90	12452.65		
	ii) 24 ft. (7.30 metre) long	ditto	226.55	6341.60	ditto	446.00	12483.50		
	iii) 30 ft. (9.15 metre) long	ditto	242.60	6357.45	ditto	477.55	12514.65		
	iv) 36 ft. (11 metre) long	ditto	292.00	6406.70	ditto	574.85	12611.60		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
20	c) 12" (300 mm) i/d shaft								
	i) 18 ft. (5.5 metre) long	Per Cwt	186.95	6303.35	%kg	367.95	12408.15		
	ii) 24 ft. (7.30 metre) long	ditto	240.35	6353.25	ditto	473.10	12506.40		
	iii) 30 ft. (9.15 metre) long	ditto	280.40	6392.80	ditto	551.95	12584.25		
	Silt clearing 10' (3.00 m) dia wells, and removal of slush outside the compound:-								
	a) upto 10' (3.00 m) depth of slush	Per well	6561.70	-	Per well	6561.70	-		
b) beyond 10' (3.00 m) depth of slush	Per well	13023.10	-	Per well	13023.10	-			



*Finance Department*

## 22. SINKING OF WELLS

- 1 Rates for all finished works include the removal of surplus debris, unused material and byproducts.
- 2 Well curbs to be laid at spring level or as deep as possible.

### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Excavation of well in dry upto 20'(6 metre) below ground level, and disposal of soil within one chain (30 metre)								
	a) in ordinary soil or sand :-	1000 Cft.			cu.m				
	i) from 0' to 5' (0 to 1.5 m) depth	ditto	4378.10	-	ditto	154.65	-		
	ii) from 5.1' to 10' (1.5 to 3.0 metre) depth	ditto	4572.55	-	ditto	161.50	-		
	iii) from 10.1' to 15' (3.0 to 4.5 metre) depth	ditto	5144.15	-	ditto	181.70	-		
	iv) from 15.1' to 20' (4.5 metre to 6.0 metre) depth	ditto	5904.25	-	ditto	208.55	-		
	b) in hard soil								
	i) from 0' to 5'(0 to 1.5 metre) depth	1000 Cft.	5332.70	-	cu.m	188.35	-		
	ii) from 5.1' to 10'(1.5 to 3.0 metre) depth	ditto	5574.30	-	ditto	196.90	-		
	iii) from 10.1' to 15'(3.0 to 4.5 metre) depth	ditto	6092.80	-	ditto	215.20	-		
	iv) from 15.1' to 20'(4.5 to 6.0 metre) depth	ditto	6852.95	-	ditto	242.05	-		
	c) in hard strata, such as shingle, gravel, etc.								
	i) from 0' to 5'(0 to 1.5 metre) depth	1000 Cft.	11502.10	-	cu.m	406.25	-		
	ii) from 5.1' to 10'(1.5 to 3.0 metre) depth	ditto	11914.60	-	ditto	420.80	-		
	iii) from 10.1' to 15'(3.0 to 4.5 metre) depth	ditto	12421.35	-	ditto	438.70	-		
	iv) from 15.1' to 20'(4.5 to 6.0 metre) depth	ditto	13334.70	-	ditto	471.00	-		
2	Dry sinking of well, including loading, and removing excavated material within one chain (30 m):-								
	a) in ordinary soil :-								
	i) from 10' to 15'(3.0 to 4.5 m) depth	1000 Cft.	23569.90	-	cu.m	832.50	-		
	ii) from 15.1' to 20'(4.5 to 6.0 m) depth	ditto	29462.40	-	ditto	1040.60	-		
	iii) from 20.1' to 25'(6.0 to 7.5 m) depth	ditto	35354.90	-	ditto	1248.75	-		
	iv) from 25.1' to 30'(7.5 to 9.0 m) depth	ditto	41247.35	-	ditto	1456.85	-		
	v) from 30.1' to 35'(9.0 to 10.5 m) depth	ditto	47139.85	-	ditto	1665.00	-		
	vi) from 35.1' to 40'(10.5 to 12.0 m) depth	ditto	53032.30	-	ditto	1873.10	-		
	vii) from 40.1' to 45'(12.0 to 13.5 m) depth	ditto	58924.80	-	ditto	2081.20	-		
	viii) from 45'(13.5 Sm) to any depth	ditto	64817.30	-	ditto	2289.35	-		
	b) in hard soil :-								
	i) from 10' to 15'(3.0 to 4.5 m) depth	1000 Cft.	32408.65	-	cu.m	1144.65	-		
	ii) from 15.1' to 20'(4.5 to 6.0 m) depth	ditto	38301.10	-	ditto	1352.80	-		
	iii) from 20.1' to 25'(6.0 to 7.5 m) depth	ditto	44193.60	-	ditto	1560.90	-		
	iv) from 25.1' to 30'(7.5 to 9.0 m) depth	ditto	50086.10	-	ditto	1769.05	-		
	v) from 30.1' to 35'(9.0 to 10.5 m) depth	ditto	55978.55	-	ditto	1977.15	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	vi) from 35.1' to 40'(10.5 to 12.0 m) depth	ditto	61871.05	-	ditto	2185.30	-		
	vii) from 40.1' to 45'(12.0 to 13.5 m) depth	ditto	67763.50	-	ditto	2393.40	-		
	viii) from 45'(13.5 m) to any depth	ditto	73656.00	-	ditto	2601.55	-		
	c) in hard strata, such as shingle, gravel, etc.								
	i) from 10' to 15'(3.0 to 4.5 m) depth	1000 Cft.	44193.60	-	cu.m	1560.90	-		
	ii) from 15.1' to 20'(4.5 to 6.0 m) depth	ditto	50086.10	-	ditto	1769.05	-		
	iii) from 20.1' to 25'(6.0 to 7.5 m) depth	ditto	55978.55	-	ditto	1977.15	-		
	iv) from 25.1' to 30'(7.5 to 9.0 m) depth	ditto	56715.10	-	ditto	2003.20	-		
	v) from 30.1' to 35'(9.0 to 10.5 m) depth	ditto	67763.50	-	ditto	2393.40	-		
	vi) from 35.1' to 40'(10.5 to 12.0 m) depth	ditto	73656.00	-	ditto	2601.55	-		
	vii) from 40.1' to 45'(12.0 to 13.5 m) depth	ditto	79548.50	-	ditto	2809.65	-		
	viii) from 45'-1" (13.5 m) to any depth	ditto	85440.95	-	ditto	3017.80	-		
3	Wet sinking of well in ordinary soil (value of C upto 5), for depths below spring level, including charges of machinery, shoring, kentledge and removal of excavated spoil within one chain (30 m):-							* 841-1 to 841-9	The outer dimensions of the curb shall form basis of payment.
	i) from 0' to 10'(0 to 3.0 m) depth	1000 Cft.	35841.90	-	cu.m	1265.95	-		
	ii) above 10' to 20'(3.0 to 6.0 m) depth	ditto	76164.00	-	ditto	2690.10	-		
	iii) above 20' to 30'(6.0 to 9.0 m) depth	ditto	93740.30	-	ditto	3310.90	-		
	iv) above 30' to 40'(9.0 to 12.0 m) depth	ditto	121862.40	-	ditto	4304.20	-		
	v) above 40' to 50'(12.0 to 15.0 m) depth	ditto	135402.65	-	ditto	4782.40	-		
	vi) above 50' to 60'(15.0 to 18.0 m) depth	ditto	152328.00	-	ditto	5380.25	-		
	vii) above 60' to 70'(18.0 to 21.0 m) depth	ditto	156233.85	-	ditto	5518.20	-		
	viii) above 70' to 80'(21.0 to 24.0 m) depth	ditto	160345.25	-	ditto	5663.40	-		
	ix) above 80'(24.0 m) to any depth	ditto	174089.15	-	ditto	6148.85	-		
4	Wet sinking of well in cohesive soil (value of C more than 5), for depths below spring level, including charges of machinery shoring, kentledge and removal of excavated spoil within one chain (30 m):-							* 841-1 to 841-9	The outer dimensions of the curb shall form basis of payment.
	i) from 0' to 10'(0 to 3.0 m) depth	1000 Cft.	-	48299.40	cu.m	-	1705.95		
	ii) above 10' to 20'(3.0 to 6.0 m) depth	ditto	-	60374.25	ditto	-	2132.40		
	iii) above 20' to 30'(6.0 to 9.0 m) depth	ditto	-	72449.05	ditto	-	2558.90		
	iv) above 30' to 40'(9.0 to 12.0 m) depth	ditto	-	96598.75	ditto	-	3411.85		
	v) above 40' to 50'(12.0 to 15.0 m) depth	ditto	-	111460.10	ditto	-	3936.75		
	vi) above 50' to 60'(15.0 to 18.0 m) depth	ditto	-	120748.45	ditto	-	4264.85		
	vii) above 60' to 70'(18.0 to 21.0 m) depth	ditto	-	131725.60	ditto	-	4652.55		
	viii) above 70' to 80'(21.0 to 24.0 m) depth	ditto	-	136696.35	ditto	-	4828.10		
	ix) above 80'(24.0 m) to any depth	ditto	-	144898.15	ditto	-	5117.80		
5	Wet sinking of well in shingle, or gravel, etc, for depths below spring level, including charges of machinery,							* 841-1 to	The outer dimensions of the curb shall form basis of payment.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	shoring, kentledge and removal of excavated spoil within one chain (30 m) :-							841-9	
	i) from 0' to 10'(0 to 3.0 m) depth	1000 Cft.	-	65862.80	cu.m	-	2326.25		
	ii) above 10' to 20'(3.0 to 6.0 m) depth	ditto	-	80498.95	ditto	-	2843.20		
	iii) above 20' to 30'(6.0 to 9.0 m) depth	ditto	-	96598.75	ditto	-	3411.85		
	iv) above 30' to 40'(9.0 to 12.0 m) depth	ditto	-	131725.60	ditto	-	4652.55		
	v) above 40' to 50'(12.0 to 15.0 m) depth	ditto	-	144898.15	ditto	-	5117.80		
	vi) above 50' to 60'(15.0 to 18.0 m) depth	ditto	-	160997.95	ditto	-	5686.45		
	vii) above 60' to 70'(18.0 to 21.0 m) depth	ditto	-	168486.20	ditto	-	5950.95		
	viii) above 70' to 80'(21.0 to 24.0 m) depth	ditto	-	172497.80	ditto	-	6092.60		
	ix) above 80'(24.0 m) to any depth	ditto	-	190655.45	ditto	-	6733.95		
6	Making and fixing in position, kiker wood well curb.	Per Cft.	1004.80	2455.45	cu.m	35490.30	86726.05		
7	Laying well curb in position only.	Each	334.75	-	Each	334.75	-		
8	Providing, making and laying R.C.C. well curb in position, using coarse sand, including all kinds of form, moulds, curing, shuttering, rendering and finishing the exposed surface, (including screening and washing of aggregate :-							* 841-1 to 841-9	1) If concrete mixer is supplied by Government, all charges including depreciation will be recovered from the contractor. 2) The rate does not include cost of steel reinforcement and its labour for bending, which is payable, separately.
	a) Ratio 1:1½:3	Per Cft.	218.95	436.70	cu.m	7733.25	15423.45		
	b) ratio 1:2:4	ditto	218.95	407.50	ditto	7733.25	14393.25		
9	Providing and fixing structural steel for cutting edge.	100Kg	786.70	9986.80	100Kg	786.70	9986.80	841-1 to 841-9	
10	Making and removing false masonry on well.	100Cft.	7122.90	20648.75	cu.m	2515.80	7293.15	21.1 to 21.5 & 18.1	The rate includes dismantling of false masonry, scraping bricks obtained from dismantling and credit of byproducts.

\* Specification No. correspond to Book of "Standard Specification for Road and Bridge Construction, 1971".

## 23. TUBEWELL AND WATER SUPPLY

- 1 Specification No. correspond to Book of "Specification for B&R Department, 1966, Vol. II (Public Health Works)".  
 2 Rates for all finished works include the removal of surplus debris, unused material and byproducts.

### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:-							Chap. 2	
	a) 3" (75 mm) i/d	Per Rft.		63.40	Per Metre		207.90		
	b) 4" (100 mm) i/d	of bore		86.30	of bore		283.05		
	c) 5" (125 mm) i/d	ditto		156.55	ditto		513.45		
	d) 6" (150 mm) i/d	ditto		237.70	ditto		779.65		
	e) 8" (200 mm) i/d	ditto		309.75	ditto		1016.05		
	f) 10" (250 mm) i/d	ditto		391.75	ditto		1284.90		
	g) 12" (300 mm) i/d	ditto		424.65	ditto		1392.90		
	h) 15" (375 mm) i/d	ditto		640.45	ditto		2100.60		
	i) 18" (450 mm) i/d	ditto		679.30	ditto		2228.20		
2	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:-							ditto	
	a) 5" (125 mm) i/d	Per Rft.		263.20	Per Metre		863.35		
	b) 6" (150 mm) i/d	of bore		370.30	of bore		1214.65		
	c) 8" (200 mm) i/d	ditto		420.10	ditto		1377.90		
	d) 10" (250 mm) i/d	ditto		480.20	ditto		1575.05		
	e) 12" (300 mm) i/d	ditto		520.80	ditto		1708.25		
	f) 15" (375 mm) i/d	ditto		751.70	ditto		2465.65		
	g) 18" (450 mm) i/d	ditto		790.60	ditto		2593.20		
3	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 200.1 ft. to 300 ft. (60 to 90 m) below ground level, including sinking and withdrawing of casing pipe, complete:-							ditto	
	a) 5" (125 mm) i/d	Per Rft.		367.85	Per Metre		1206.55		
	b) 6" (150 mm) i/d	of bore		474.35	of bore		1555.85		
	c) 8" (200 mm) i/d	ditto		529.80	ditto		1737.70		
	d) 10" (250 mm) i/d	ditto		597.25	ditto		1959.05		
	e) 12" (300 mm) i/d	ditto		631.45	ditto		2071.10		
	f) 15" (375 mm) i/d	ditto		826.00	ditto		2709.20		
	g) 18" (450 mm) i/d	ditto		866.10	ditto		2840.85		
4	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 300.1 ft. to 400 ft. (90 to 120 m) below ground level, including sinking and withdrawing of casing pipe, complete:-							Chap. 2	
	a) 8" (200 mm) i/d	Rft of bore		640.10	Per Metre		2099.55		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	b) 10" (250 mm) i/d c) 12" (300 mm) i/d d) 15" (375 mm) i/d e) 18" (450 mm) i/d	ditto ditto ditto ditto		714.95 751.00 1010.75 1014.45	of bore ditto ditto ditto		2345.05 2463.20 3315.20 3327.35		
5	Direct Rotary/Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock:-  a) from ground level to 250 ft. (75 m) below ground level:-  i) 15" to 18" (375 to 450 mm) i/d ii) 20" to 26" (500 to 650 mm) i/d  b) exceeding 250 ft. (75 m) depth below ground level:-  i) 15" to 18" (375 to 450 mm) i/d ii) 20" to 26" (500 to 650 mm) i/d	Per Rft. of bore ditto  Rft of bore ditto		463.30 666.35  463.30 666.35	Per Metre of bore ditto  Per Metre of bore ditto		1519.70 2185.55  1519.70 2185.55	ditto	
6	Boring for tubewell in shingle, gravel and rock, including sinking and withdrawing of casing pipe:-  a) from ground level to 200 ft. (60 m) below ground level:-  i) 12" to 18" (300 to 450 mm) i/d ii) 20" to 26" (500 to 650 mm) i/d  b) exceeding 200 ft. (60 m) depth below ground level:-  i) 12" to 18" (300 to 450 mm) i/d ii) 20" to 26" (500 to 650 mm) i/d	Per Rft. of bore ditto  ditto ditto		1044.90 1413.20  1044.90 1413.20	Per Metre of bore ditto  ditto ditto		3427.35 4635.35  3427.35 4635.35	ditto	Location and depth of shingle, gravel or rock is to be determined from the bore log.
7	Providing strong substantially built box of deodar wood 4x2½x9" (1200x750x225 mm), with compartments, lock and locking arrangement, for preserving samples of strata from bore hole.	Job for complete bore	753.70	12368.50	Job for complete bore	753.70	12368.50	ditto	
8	Furnishing sample of water from bore hole.	Per Set of 2 bottles	118.80	170.70	Per Set of 2 bottles	118.80	170.70	Chap. 2	
9	Providing and installing, brass strainer in tubewell bore hole, including sockets, special sockets, studs, etc. complete:-  a) 2" i/d, 5/32" (50 mm i/d 4 mm) thick b) 3" i/d, 5/32" (75 mm i/d 4 mm) thick	Per Rft. Per Rft.	30.50 30.50	853.70 1273.70	Per Metre Per Metre	100.05 100.00	2800.10 4177.70	ditto	Cost/labour of jointing both ends is included in the rate.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	c) 4" i/d, 3/16" (100 mm i/d 5 mm) thick	Per Rft.	40.65	1535.85	Per Metre	133.35	5037.60		
	d) 5" i/d, 3/16" (125 mm i/d 5 mm) thick	Per Rft.	46.15	1961.35	Per Metre	151.35	6433.20		
	e) 6" i/d, 3/16" (150 mm i/d 5 mm) thick	Per Rft.	50.80	2203.30	Per Metre	166.70	7226.90		
	f) 7" i/d, 3/16" (175 mm i/d 5 mm) thick	Per Rft.	59.75	2658.50	Per Metre	195.95	8719.85		
	g) 8" i/d, 3/16" (200 mm i/d 5 mm) thick	Per Rft.	73.15	3139.15	Per Metre	239.90	10296.35		
	h) 9" i/d, 3/16" (225 mm i/d 5 mm) thick	Per Rft.	73.15	3265.15	Per Metre	239.90	10709.65		
	i) 10" i/d, 3/16" (250 mm i/d 5 mm) thick	Per Rft.	82.70	3600.20	Per Metre	271.25	11808.65		
	j) 10" i/d, 1/4" (250 mm i/d 6 mm) thick	Per Rft.	82.70	4588.50	Per Metre	271.25	15050.35		
	k) 12" i/d, 1/4" (300 mm i/d 6 mm) thick	Per Rft.	83.95	5223.70	Per Metre	275.30	17133.70		
	l) 15" i/d, 1/4" (375 mm i/d 6 mm) thick	Per Rft.	96.70	6436.05	Per Metre	317.15	21110.30		
	m) 18" i/d, 1/4" (450 mm i/d 6 mm) thick	Per Rft.	96.70	7315.45	Per Metre	317.15	23994.65		
	n) 20" i/d, 1/4" (500 mm i/d 6 mm) thick	Per Rft.	114.55	8080.10	Per Metre	375.70	26502.75		
	o) 22" i/d, 1/4" (550 mm i/d 6 mm) thick	Per Rft.	115.80	9279.65	Per Metre	379.75	30437.30		
10	Providing and installing M.S. Bail plug in tubewell bore hole:							In the case of increase or decrease in the length of Bail plug, the rates will be increased or decreased as per rates given in serial No. 14 of this chapter for the respective diameter.	
	a) 2" i/d, 1.5 ft. (50 mm i/d 450 mm) long.	Each	141.80	627.80	Each	141.80	627.80		
	b) 3" i/d, 1.5 ft. (75 mm i/d 450 mm) long.	Each	141.80	824.55	Each	141.80	824.55		
	c) 4" i/d, 2 ft. (100 mm i/d 600 mm) long.	Each	236.65	1560.75	Each	236.65	1560.75		
	d) 5" i/d, 2 ft. (125 mm i/d 600 mm) long.	Each	236.65	1953.70	Each	236.65	1953.70		
	e) 6" i/d, 2 ft. (150 mm i/d 600 mm) long.	Each	319.55	2467.10	Each	319.55	2467.10		
	f) 7" i/d, 2 ft. (175 mm i/d 600 mm) long.	Each	319.55	2853.20	Each	319.55	2853.20		
	g) 8" i/d, 2 ft. (200 mm i/d 600 mm) long	Each	393.75	3170.60	Each	393.75	3170.60		
	h) 9" i/d, 2 ft. (225 mm i/d 600 mm) long	Each	393.75	3511.75	Each	393.75	3511.75		
	i) 10" i/d, 2 ft. (250 mm i/d 600 mm) long	Each	393.75	4459.35	Each	393.75	4459.35		
	j) 12" i/d, 2 ft. (300 mm i/d 600 mm) long	Each	472.60	5360.10	Each	472.60	5360.10		
	k) 15" i/d, 2 ft. (375 mm i/d 600 mm) long	Each	472.60	6582.80	Each	472.60	6582.80		
	l) 18" i/d, 2 ft. (450 mm i/d 600 mm) long	Each	568.45	7516.05	Each	568.45	7516.05		
	m) 20" i/d, 2 ft. (500 mm i/d 600 mm) long	Each	618.25	8335.80	Each	618.25	8335.80		
	n) 22" i/d, 2 ft. (550 mm i/d 600 mm) long	Each	618.25	9160.90	Each	618.25	9160.90		
11	Providing and installing, P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents, etc. complete:-								Chap. 2
	a) 3" i/d (75 mm)	Per Rft.	22.55	123.35	Per Metre	74.05	404.65		
	b) 4" i/d (100 mm)	Per Rft.	25.75	180.55	Per Metre	84.50	592.25		
	c) 5" i/d (125 mm)	Per Rft.	27.30	243.30	Per Metre	89.60	798.10		
	d) 6" i/d (150 mm)	Per Rft.	32.05	320.05	Per Metre	105.10	1049.75		
	e) 8" i/d (200 mm)	Per Rft.	43.65	763.65	Per Metre	143.15	2504.75		
	f) 10" i/d (250 mm)	Per Rft.	44.70	1136.70	Per Metre	146.55	3728.30		
	g) 12" i/d (300 mm)	Per Rft.	44.70	1520.70	Per Metre	146.55	4987.85		
12	Providing and installing P.V.C. strainer B.S.S. Class 'D', in tubewell bore hole, including sockets and solvent, etc. complete:-								
	a) 1 1/4" i/d (30 mm)	Per Rft.	15.75	55.35	Per Metre	51.60	181.45		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	b) 1½" i/d (40 mm)	Per Rft.	16.10	61.70	Per Metre	52.80	202.35		
	c) 2" i/d (50 mm)	Per Rft.	16.25	93.05	Per Metre	53.30	305.2		
	d) 3" i/d (75 mm)	Per Rft.	22.60	188.20	Per Metre	74.10	617.25		
	e) 4" i/d (100 mm)	Per Rft.	25.70	294.50	Per Metre	84.25	965.9		
	f) 5" i/d (125 mm)	Per Rft.	27.30	429.30	Per Metre	89.60	1408.15		
	g) 6" i/d (150 mm)	Per Rft.	49.50	619.50	Per Metre	162.35	2031.95		
13	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:-								
	i) B.S.S. Class `B`								
	a) 3" i/d (75 mm)	Each	11.30	64.10	Each	11.30	64.10		
	b) 4" i/d (100 mm)	Each	12.70	84.70	Each	12.70	84.70		
	c) 5" i/d (125 mm)	Each	13.90	125.50	Each	13.90	125.50		
	d) 6" i/d (150 mm)	Each	18.00	182.40	Each	18.00	182.40		
	e) 8" i/d (200 mm)	Each	21.50	355.10	Each	21.50	355.10		
	f) 10" i/d (250 mm)	Each	22.70	490.70	Each	22.70	490.70		
	g) 12" i/d (300 mm)	Each	26.35	662.35	Each	26.35	662.35		
	h) 14" i/d (350 mm)	Each	26.35	686.35	Each	26.35	686.35		
	ii) B.S.S. Class `D`								
	a) 1¼" i/d (30 mm)	Each	7.65	35.25	Each	7.65	35.25		
	b) 1½" i/d (40 mm)	Each	8.10	48.90	Each	8.10	48.90		
	c) 2" i/d (50 mm)	Each	8.40	68.40	Each	8.40	68.40		
	d) 3" i/d (75 mm)	Each	11.30	91.70	Each	11.30	91.70		
	e) 4" i/d (100 mm)	Each	12.75	119.55	Each	12.75	119.55		
	f) 5" i/d (125 mm)	Each	13.90	167.50	Each	13.90	167.50		
	g) 6" i/d (150 mm)	Each	18.05	218.45	Each	18.05	218.45		
14	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete:-							Chap. 2	
	a) 2" i/d, 1/8" (50 mm i/d 3 mm) thick	Per Rft.	85.40	266.30	Per Metre	280.10	873.50		
	b) 3" i/d, 1/8" (75 mm i/d 3 mm) thick	Per Rft.	85.40	345.20	Per Metre	280.10	1132.25		
	c) 4" i/d, 1/8" (100 mm i/d 3 mm) thick	Per Rft.	106.80	452.15	Per Metre	350.30	1483.05		
	d) 5" i/d, 3/16" (125 mm i/d 5 mm) thick	Per Rft.	106.80	795.00	Per Metre	350.30	2607.65		
	e) 6" i/d, 3/16" (150 mm i/d 5 mm) thick	Per Rft.	152.40	966.00	Per Metre	499.85	3168.50		
	f) 7" i/d, 3/16" (175 mm i/d 5 mm) thick	Per Rft.	152.40	1101.60	Per Metre	499.85	3613.25		
	g) 8" i/d, 3/16" (200 mm i/d 5 mm) thick	Per Rft.	177.85	1355.25	Per Metre	583.35	4445.25		
	h) 9" i/d, 3/16" (225 mm i/d 5 mm) thick	Per Rft.	177.85	1529.05	Per Metre	583.35	5015.30		
	i) 10" i/d, ¼" (250 mm i/d 6 mm) thick	Per Rft.	177.85	1950.25	Per Metre	583.35	6396.80		
	j) 12" i/d, ¼" (300 mm i/d 6 mm) thick	Per Rft.	213.45	2298.45	Per Metre	700.10	7538.90		
	k) 15" i/d, ¼" (375 mm i/d 6 mm) thick	Per Rft.	213.45	2819.70	Per Metre	700.10	9248.60		
	l) 18" i/d, ¼" (450 mm i/d 6 mm) thick	Per Rft.	261.35	3501.70	Per Metre	857.25	11485.55		
	m) 20" i/d, ¼" (500 mm i/d 6 mm) thick	Per Rft.	281.70	3882.10	Per Metre	924.00	12733.20		
	n) 22" i/d, ¼" (550 mm i/d 6 mm) thick	Per Rft.	281.70	4242.10	Per Metre	924.00	13914.15		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
15	Providing and installing P.V.C. blind pipe, B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.							ditto	
	a) 3" i/d (75 mm)	Per Rft.	29.80	129.70	Per Metre	97.70	425.35		
	b) 4" i/d (100 mm)	Per Rft.	33.75	184.50	Per Metre	110.65	605.15		
	c) 5" i/d (125 mm)	Per Rft.	35.30	245.00	Per Metre	115.80	803.65		
	d) 6" i/d (150 mm)	Per Rft.	42.35	335.75	Per Metre	137.45	1099.80		
	e) 8" i/d (200 mm)	Per Rft.	56.35	508.15	Per Metre	184.80	1666.70		
	f) 10" i/d (250 mm)	Per Rft.	58.80	760.80	Per Metre	192.80	2495.35		
	g) 12" i/d (300 mm)	Per Rft.	70.25	1049.45	Per Metre	230.45	3442.20		
	h) 14" i/d (350 mm)	Per Rft.	67.15	1238.95	Per Metre	220.30	4063.80		
16	Providing and installing P.V.C. blind pipe, B.S.S. Class 'D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.								
	a) 1¼" i/d (30 mm)	Per Rft.	18.65	53.75	Per Metre	61.20	176.35		
	b) 1½" i/d (40 mm)	Per Rft.	19.00	64.90	Per Metre	62.35	212.90		
	c) 2" i/d (50 mm)	Per Rft.	20.20	90.40	Per Metre	66.25	296.50		
	d) 3" i/d (75 mm)	Per Rft.	25.60	180.40	Per Metre	84.00	591.70		
	e) 4" i/d (100 mm)	Per Rft.	33.75	291.15	Per Metre	110.65	954.95		
	f) 5" i/d (125 mm)	Per Rft.	35.30	421.40	Per Metre	115.80	1382.20		
	g) 6" i/d (150 mm)	Per Rft.	43.15	599.35	Per Metre	141.50	1965.85		
17	Testing and developing of tubewell of size 6" (150 mm) i/d and above continuously.								
	i) upto 1.5 cs. discharge	Per Hour		812.60	Per Hour		812.60		Compressor, accessories along with working staff, to be supplied by Government.
	ii) above 1.5 cs. discharge	ditto		984.90	ditto		984.90		
18	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole.	Per Cft.	35.00	87.90	cu.m	1236.20	3104.65		The rate includes wastage, etc.
19	Laying cutting, jointing, testing and disinfecting cast iron pipe line in trenches, with spigot and socket caulked lead joints, including cost of materials, such as lead, yarn, etc. complete in all respects:-							Chap. 2	1) Pipes to be supplied by Government. 2) Providing and installing specials and valves is not included in the rate, which is payable separately.
	a) 3" (75 mm) i/d	Per Rft.		57.05	Per Metre		187.15		
	b) 4" (100 mm) i/d	Per Rft.		70.65	Per Metre		231.80		
	c) 5" (125 mm) i/d	Per Rft.		88.90	Per Metre		291.55		
	d) 6" (150 mm) i/d	Per Rft.		104.65	Per Metre		343.30		
	e) 8" (200 mm) i/d	Per Rft.		125.30	Per Metre		410.95		
	f) 10" (250 mm) i/d	Per Rft.		190.10	Per Metre		623.55		
	g) 12" (300 mm) i/d	Per Rft.		223.25	Per Metre		732.25		
	h) 15" (375 mm) i/d	Per Rft.		287.55	Per Metre		943.20		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) 18" (450 mm) i/d	Per Rft.		378.05	Per Metre		1240.00		
20	Laying, cutting, jointing, testing and disinfecting cast iron pipe line in trenches, with flanged and flanged joints, complete in all respects:-							ditto	1) Pipes to be supplied by Government. 2) Providing and installing specials and valves is not included in the rate, which is payable separately.
	a) 3" (75 mm) i/d	Per Rft.		26.00	Per Metre		85.20		
	b) 4" (100 mm) i/d	Per Rft.		28.70	Per Metre		94.20		
	c) 5" (125 mm) i/d	Per Rft.		40.45	Per Metre		132.70		
	d) 6" (150 mm) i/d	Per Rft.		44.60	Per Metre		146.25		
	e) 8" (200 mm) i/d	Per Rft.		52.35	Per Metre		171.65		
	f) 10" (250 mm) i/d	Per Rft.		72.40	Per Metre		237.45		
	g) 12" (300 mm) i/d	Per Rft.		84.95	Per Metre		278.65		
	h) 15" (375 mm) i/d	Per Rft.		117.25	Per Metre		384.50		
	i) 18" (450 mm) i/d	Per Rft.		150.00	Per Metre		491.95		
21	Laying, cutting, jointing, testing and disinfecting cast iron pipe line in trenches with Tyton joints, complete in all respects:-							Chap. 2	1) Pipes to be supplied by Government. 2) Providing and installing specials and valves is not included in the rate, which is payable separately.
	a) 3" (75 mm) i/d	Per Rft.		12.45	Per Metre		40.80		
	b) 4" (100 mm) i/d	Per Rft.		14.10	Per Metre		46.25		
	c) 5" (125 mm) i/d	Per Rft.		18.20	Per Metre		59.75		
	d) 6" (150 mm) i/d	Per Rft.		20.40	Per Metre		66.85		
	e) 8" (200 mm) i/d	Per Rft.		27.80	Per Metre		91.10		
	f) 10" (250 mm) i/d	Per Rft.		35.15	Per Metre		115.30		
	g) 12" (300 mm) i/d	Per Rft.		41.75	Per Metre		137.00		
	h) 15" (375 mm) i/d	Per Rft.		59.15	Per Metre		194.05		
	i) 18" (450 mm) i/d	Per Rft.		70.85	Per Metre		232.35		
22	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.							Chap. 2	Cost of sockets, tees, elbows, bends, valves, crosses, unions and plugs, etc. is included in the rates.
	<b>i) Light Quality</b>								
	a) ½" i/d (15 mm) 2mm thick	Per Rft.	10.20	57.85	Per Metre	33.35	189.75		
	b) ¾" i/d (20 mm) 2.35mm thick	Per Rft.	11.10	78.80	Per Metre	36.40	258.45		
	c) 1" i/d (25 mm) 2.65mm thick	Per Rft.	12.55	108.40	Per Metre	41.15	355.60		
	d) 1¼" i/d (32 mm) 2.65mm thick	Per Rft.	12.65	138.45	Per Metre	41.45	454.15		
	e) 1½" i/d (40 mm) 2.9mm thick	Per Rft.	12.75	174.20	Per Metre	41.80	571.35		
	f) 2" i/d (50 mm) 2.9mm thick	Per Rft.	14.25	216.75	Per Metre	46.75	710.90		
	g) 2½" i/d (65 mm) 3.25mm thick	Per Rft.	14.85	293.05	Per Metre	48.70	961.15		
	h) 3" i/d (75 mm) 3.25mm thick	Per Rft.	17.10	343.20	Per Metre	56.05	1125.60		
	i) 4" i/d (100 mm) 3.65mm thick	Per Rft.	18.40	478.60	Per Metre	60.35	1569.75		
	<b>ii) Medium Quality</b>								
	a) ½" i/d (15 mm) 2.65mm thick	Per Rft.	10.20	68.25	Per Metre	33.35	223.85		i. Cost of sockets, tees, elbow, bends, valves, crosses, unions and plugs etc is included in the rates except for internal G.I piping (1" dia,
	b) ¾" i/d (20 mm) 2.65mm thick	Per Rft.	11.10	85.90	Per Metre	36.40	281.70		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	c) 1" i/d (25 mm) 3.25mm thick	Per Rft.	12.55	124.35	Per Metre	41.15	407.8		3/4" dia & 1/2" dia) for Bath rooms/ Levoratory.  ii. For internal G.I piping (1" dia, 3/4" dia & Bath room(s)/ Levoratory of rate (composite) shall be reduced by 8% and specials mentioned above may be paid at the rates placed on Website as per actual quantity used.
	d) 1¼" i/d (32 mm) 3.25mm thick	Per Rft.	12.65	157.55	Per Metre	41.45	516.80		
	e) 1½" i/d (40 mm) 3.25mm thick	Per Rft.	12.95	180.90	Per Metre	42.50	593.30		
	f) 2" i/d (50 mm) 3.65mm thick	Per Rft.	14.25	247.95	Per Metre	46.75	813.30		
	g) 2½" i/d (65 mm) 3.65mm thick	Per Rft.	14.85	314.90	Per Metre	48.70	1032.95		
	h) 3" i/d (75 mm) 4.05mm thick	Per Rft.	17.10	403.50	Per Metre	56.05	1323.50		
	i) 4" i/d (100 mm) 4.5mm thick	Per Rft.	18.40	573.35	Per Metre	60.35	1880.50		
	j) 5" i/d (150 mm) 4.85mm thick	Per Rft.	21.30	769.60	Per Metre	69.85	2524.35		
	k) 6" i/d (200 mm) 4.85mm thick	Per Rft.	21.60	905.55	Per Metre	70.90	2970.20		
	<b>iii) Heavy Quality</b>								
	a) ½" i/d (15 mm) 3.25mm thick	Per Rft.	10.20	91.55	Per Metre	33.40	300.25		
	b) ¾" i/d (20 mm) 3.25mm thick	Per Rft.	11.10	118.30	Per Metre	36.40	388.05		
	c) 1" i/d (25 mm) 4.05mm thick	Per Rft.	12.55	173.60	Per Metre	41.15	569.35		
	d) 1¼" i/d (32 mm) 4.05mm thick	Per Rft.	12.65	222.45	Per Metre	41.45	729.7		
	e) 1½" i/d (40 mm) 4.05mm thick	Per Rft.	12.95	253.45	Per Metre	42.50	831.25		
	f) 2" i/d (50 mm) 4.5mm thick	Per Rft.	14.25	344.90	Per Metre	46.75	1131.25		
	g) 2½" i/d (65 mm) 4.5mm thick	Per Rft.	14.85	431.30	Per Metre	48.70	1414.65		
	h) 3" i/d (75 mm) 4.85mm thick	Per Rft.	17.10	553.85	Per Metre	56.05	1816.65		
	i) 4" i/d (100 mm) 5.4mm thick	Per Rft.	18.40	752.70	Per Metre	60.35	2468.9		
	j) 5" i/d (125 mm) 5.4mm thick	Per Rft.	21.30	930.65	Per Metre	69.85	3052.5		
	k) 6" i/d (150 mm) 5.4mm thick	Per Rft.	21.60	1098.30	Per Metre	70.90	3602.45		
23	Providing, laying, cutting, jointing, testing and disinfecting Asbestos Cement / Fibre Cement pipe line in trenches, with comet joint and rubber ring, complete in all respects:-							PS 428 & ISO 160	Providing and installing specials and valves is not included in the rate, which is payable separately.
	<b>B Class Working Pressure</b>								
	a) 3" i/d (75 mm)	Per Rft.	14.35	221.30	Per Metre	47.05	725.90		
	b) 4" i/d (100 mm)	Per Rft.	15.20	288.25	Per Metre	49.80	945.50		
	c) 6" i/d (150 mm)	Per Rft.	20.75	455.50	Per Metre	68.15	1494.05		
	d) 8" i/d (200 mm)	Per Rft.	28.60	762.15	Per Metre	93.85	2499.80		
	e) 10" i/d (250 mm)	Per Rft.	37.20	1037.65	Per Metre	122.00	3403.55		
	f) 12" i/d (300 mm)	Per Rft.	47.35	1371.10	Per Metre	155.35	4497.25		
	g) 14" i/d (350 mm)	Per Rft.	54.60	1974.60	Per Metre	179.10	6476.75		
	h) 16" i/d (400 mm)	Per Rft.	61.55	2506.85	Per Metre	201.90	8222.55		
	i) 18" i/d (450 mm)	Per Rft.	72.55	3122.80	Per Metre	238.05	10242.85		
	j) 20" i/d (500 mm)	Per Rft.	85.25	3840.60	Per Metre	279.65	12597.20		
	k) 24" i/d (600 mm)	Per Rft.	101.30	5297.45	Per Metre	332.30	17375.65		
	l) 28" i/d (700 mm)	Per Rft.	107.65	8493.70	Per Metre	353.10	27859.30		
	m) 32" i/d (800 mm)	Per Rft.	116.80	9718.40	Per Metre	383.00	31876.30		
	n) 40" i/d 1000 mm)	Per Rft.	128.35	15003.10	Per Metre	421.05	49210.25		
24	<b>C Class Working Pressure</b>							PS 428 & ISO 160	
	a) 3" i/d (75 mm)	Per Rft.	14.35	221.30	Per Metre	47.05	725.90		
	b) 4" i/d (100 mm)	Per Rft.	15.20	316.40	Per Metre	49.80	1037.85		
	c) 6" i/d (150 mm)	Per Rft.	20.75	544.85	Per Metre	68.15	1787.10		
	d) 8" i/d (200 mm)	Per Rft.	28.60	860.05	Per Metre	93.85	2821.00		
	e) 10" i/d (250 mm)	Per Rft.	37.20	1199.25	Per Metre	122.00	3933.50		
	f) 12" i/d (300 mm)	Per Rft.	47.35	1668.55	Per Metre	155.35	5472.80		
	g) 14" i/d (350 mm)	Per Rft.	54.60	2874.25	Per Metre	179.10	9427.60		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
25	h) 16" i/d (400 mm)	Per Rft.	61.55	3670.90	Per Metre	201.90	12040.55	PS 428 & ISO 160	
	i) 18" i/d (450 mm)	Per Rft.	72.55	4503.50	Per Metre	238.05	14771.45		
	j) 20" i/d (500 mm)	Per Rft.	85.25	5358.35	Per Metre	279.65	17575.45		
	k) 24" i/d (600 mm)	Per Rft.	102.65	7541.15	Per Metre	336.75	24735.05		
	<b>D Class Working Pressure</b>								
	a) 3" i/d (75 mm)	Per Rft.	14.35	221.30	Per Metre	47.05	725.90		
	b) 4" i/d (100 mm)	Per Rft.	15.20	359.25	Per Metre	49.80	1178.35		
	c) 6" i/d (150 mm)	Per Rft.	20.75	652.55	Per Metre	68.15	2140.40		
	d) 8" i/d (200 mm)	Per Rft.	28.60	1151.35	Per Metre	93.85	3776.50		
	e) 10" i/d (250 mm)	Per Rft.	37.20	1698.65	Per Metre	122.00	5571.50		
	f) 12" i/d (300 mm)	Per Rft.	47.35	2476.40	Per Metre	155.35	8122.55		
g) 14" i/d (350 mm)	Per Rft.	54.60	4141.10	Per Metre	179.10	13582.80			
h) 16" i/d (400 mm)	Per Rft.	61.55	5347.80	Per Metre	201.90	17540.70			
i) 18" i/d (450 mm)	Per Rft.	72.55	6437.40	Per Metre	238.05	21114.70			
j) 20" i/d (500 mm)	Per Rft.	85.25	7855.35	Per Metre	279.65	25765.45			
26	Providing, laying, cutting, jointing, testing and disinfecting P.V.C. pipe line with 'B' Class working pressure pipe, in trenches, complete in all respects:-						PS 3051 BS 3505	Providing and installing specials and valves is not included in the rate, which is payable separately.	
	a) 3" i/d (75 mm)	Per Rft.	4.20	106.05	Per Metre	13.70	347.90		
	b) 4" i/d (100 mm)	Per Rft.	5.35	159.10	Per Metre	17.50	521.85		
	c) 5" i/d (125 mm)	Per Rft.	6.50	220.40	Per Metre	21.35	722.95		
	d) 6" i/d (150 mm)	Per Rft.	6.85	306.10	Per Metre	22.45	1004.05		
	e) 8" i/d (200 mm)	Per Rft.	9.70	470.55	Per Metre	31.80	1543.35		
	f) 10" i/d (250 mm)	Per Rft.	12.85	728.90	Per Metre	42.20	2390.85		
	h) 12" i/d (300 mm)	Per Rft.	15.95	1014.75	Per Metre	52.30	3328.35		
	g) 14" i/d (350 mm)	Per Rft.	20.60	1215.85	Per Metre	67.60	3988.00		
27	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with P.V.C. pipes of B.S.S. with 'D' Class working pressure complete in all respects:-						Chap 2	Providing and installing specials and valves is not included in the rate, which is payable separately.	
	a) 2" i/d (50 mm)	Per Rft.	3.40	75.00	Per Metre	11.10	245.95		
	b) 3" i/d (75 mm)	Per Rft.	4.10	162.00	Per Metre	13.55	531.45		
	c) 4" i/d (100 mm)	Per Rft.	5.30	267.85	Per Metre	17.30	878.50		
	d) 5" i/d (125 mm)	Per Rft.	6.45	400.25	Per Metre	21.10	1312.85		
	e) 6" i/d (150 mm)	Per Rft.	6.75	574.05	Per Metre	22.15	1882.95		
28	Providing and fixing cast iron special of B.S.S. Class 'B' (such as bend, tee cross collar, reducer, tail piece, flanged spigot, cap, flanged socket, taper, angle branch, plug etc.) for cast iron pipe line, complete:-						9.1	i) Labour rates include the cost of jointing material & labour.  ii) The internal dia of the pipe, from which the branch is taken out will be considered the internal dia for the purpose of payments of specials.	
	a) C.I.S.S. Specials, with spigot. and socket joint:-								
	i) 3" to 6" (75 to 150 mm) i/d	Per Kg.	23.05	121.60	Per Kg.	23.05	121.60		
	ii) 8" to 12" (200 to 300 mm) i/d	Per Kg.	12.60	111.15	Per Kg.	12.60	111.15		
	iii) 15" to 18" (375 to 450 mm) i/d	Per Kg.	9.60	108.15	Per Kg.	9.60	108.15		
	b) C.I. flanged specials, with flanged and								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	flanged joints:-								
	i) 3" to 6" (75 to 150 mm) i/d	Per Kg	9.35	107.90	Per Kg	9.35	107.90		
	ii) 8" to 12" (200 to 300 mm) i/d	Per Kg	2.35	100.90	Per Kg	2.35	100.90		
	iii) 15" to 18" (375 to 450 mm) i/d	Per Kg	4.15	100.90	Per Kg	4.15	100.90		
	c) C.I. Specials, with tyton joints:-								
	i) 3" to 6" (75 to 150 mm) i/d	Per Kg	13.15	111.65	Per Kg	13.15	111.65		
	ii) 8" to 12" (200 to 300 mm) i/d	Per Kg	13.15	111.65	Per Kg	13.15	111.65		
	iii) 15" to 18" (375 to 450 mm) i/d	Per Kg	13.15	111.65	Per Kg	13.15	111.65		
29	Providing and fixing cast iron specials of B.S.S. Class 'B' (such as bend, tee, cross collar, reducer, tail piece, flanged socket, flanged spigot, cap, taper, angle branch, plug, etc) for Asbestos cement pipe line, with comet joint and rubber ring, complete.							9.1	1) Labour rates include the cost of jointing material and labour.  2) The internal dia of the pipe, from which the branch is taken out, will be considered the internal dia for the purpose of payment.
	i) 3" to 6" (75 to 150 mm) i/d	Per Kg	12.40	110.90	Per Kg	12.40	110.90		
	ii) 8" to 18" (200 to 450 mm) i/d	Per Kg	6.40	104.90	Per Kg	6.40	104.90		
	iii) 20" to 24" (500 to 600 mm) i/d	Per Kg	5.10	103.65	Per Kg	5.10	103.65		
30	Providing and fixing sluice valve of B.S.S. quality and weight, Class 'B', for cast iron pipe line, and Asbestos cement pipe line (including cost of jointing material):-							9.1	Labour rates include cost of jointing material and labour.
	a) 3" i/d (75 mm)	Each	853.60	6757.60	Each	853.60	6757.60		
	b) 4" i/d (100 mm)	Each	928.95	7948.95	Each	928.95	7948.95		
	c) 5" i/d (125 mm)	Each	1672.10	9832.10	Each	1672.10	9832.10		
	d) 6" i/d (150 mm)	Each	1782.55	13182.55	Each	1782.55	13182.55		
	e) 8" i/d (200 mm)	Each	2081.30	22961.30	Each	2081.30	22961.30		
	f) 10" i/d (250 mm)	Each	3541.55	29701.55	Each	3541.55	29701.55		
	g) 12" i/d (300 mm)	Each	3979.80	38359.80	Each	3979.80	38359.80		
	h) 16" i/d (400 mm)	Each	5278.50	59278.50	Each	5278.50	59278.50		
	i) 18" i/d (450 mm)	Each	6075.25	120075.25	Each	6075.25	120075.25		
31	Providing and fixing, sluice valve of B.S.S. quality and weight, for Asbestos cement pipe line, with comet joint and rubber ring, complete (including cost of jointing materials):-							9.1	Labour rates include cost of jointing material and labour.
	a) 3" i/d (75 mm)	Each	446.15	5486.15	Each	446.15	5486.15		
	b) 4" i/d (100 mm)	Each	539.55	6299.55	Each	539.55	6299.55		
	c) 6" i/d (150 mm)	Each	670.00	10630.00	Each	670.00	10630.00		
	d) 8" i/d (200 mm)	Each	1080.90	19080.90	Each	1080.90	19080.90		
	e) 10" i/d (250 mm)	Each	1381.10	24061.10	Each	1381.10	24061.10		
	f) 12" i/d (300 mm)	Each	1646.05	29846.05	Each	1646.05	29846.05		
	g) 16" i/d (400 mm)	Each	1940.60	57140.60	Each	1940.60	57140.60		
	h) 18" i/d (450 mm)	Each	2285.75	101885.75	Each	2285.75	101885.75		
32	Providing and fixing, fire hydrants B.S.S. quality and weight of 2½" (65 mm) dia (including cost of jointing material).	Each	60.00	4740.00	Each	60.00	4740.00	9.1	1) Labour rates include cost of jointing material and labour.  2) Connecting pipes and specials, if used, will be paid extra.



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
33	Providing and fixing, air valve 2½ (65mm) dia of B.S.S. quality and weight (complete with jointing material).							ditto	
	a) single	Each	127.25	3367.25	Each	127.25	3367.25		
	b) double	Each	127.25	7627.25	Each	127.25	7627.25		
34	Providing and fitting C.I. flanges on pipes, including turning, threading, facing and fitting, etc. complete in all respects:-							ditto	
	a) 3" to 6" (75 to 150 mm) i/d	Per Kg	36.65	113.70	Per Kg	36.65	113.70		
	b) 8" to 12" (200 to 300 mm) i/d	Per Kg	23.00	100.05	Per Kg	23.00	100.05		
	c) 15" to 18" (375 to 450 mm) i/d	Per Kg	19.60	96.60	Per Kg	19.60	96.60		
35	Cutting C.I. pipe, and welding spigot or socket, flanged or tyton end, after finishing ends of pipes:								
	a) 3" to 6" (75 to 150 mm) i/d	Per Inch i/d of pipe		59.00	Per cm i/d of pipe		23.60		
	b) 8" to 12" (200 to 300 mm) i/d	ditto		74.20	ditto		29.70		
	c) 15" to 18" (375 to 450 mm) i/d	ditto		68.15	ditto		27.25		
36	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line in trenches, with flanged joints, using G.I. pipe of B.S.S. 1387-1967 complete in all respects, including specials and valves:-								Cost of sockets, tees, elbows, bends, valves, crosses, unions and plugs, etc. is included in the rates.
	i) G.I. flanged joints (Heavy Quality)								
	a) 1½" i/d (40 mm)	Per Rft.	18.50	259.00	Per Metre	60.70	849.45		
	b) 2" i/d (50 mm)	Per Rft.	18.50	349.15	Per Metre	60.70	1145.15		
	c) 2½" i/d (65 mm)	Per Rft.	19.65	436.10	Per Metre	64.45	1430.40		
	d) 3" i/d (75 mm)	Per Rft.	19.75	556.50	Per Metre	64.75	1825.35		
	e) 4" i/d (100 mm)	Per Rft.	23.05	757.35	Per Metre	75.55	2484.15		
	f) 6" i/d (150 mm)	Per Rft.	26.30	935.60	Per Metre	86.20	3068.80		
	g) 8" i/d (200 mm)	Per Rft.	26.30	1103.00	Per Metre	86.35	3617.85		
	ii) C.I. flanged joints (Medium Quality)								
	a) 1½" i/d (40 mm)	Per Rft.	21.20	208.45	Per Metre	69.50	683.75		
	b) 2" i/d (50 mm)	Per Rft.	19.85	280.45	Per Metre	65.20	919.90		
	c) 2½" i/d (65 mm)	Per Rft.	22.30	356.85	Per Metre	73.10	1170.55		
	d) 3" i/d (75 mm)	Per Rft.	22.35	453.20	Per Metre	73.25	1486.50		
	e) 4" i/d (100 mm)	Per Rft.	25.85	644.65	Per Metre	84.85	2114.40		
	f) 6" i/d (150 mm)	Per Rft.	29.35	863.75	Per Metre	96.25	2833.10		
	g) 8" i/d (200 mm)	Per Rft.	29.50	1015.15	Per Metre	96.80	3329.65		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
37	Providing and installing P.V.C. bends, of B.S.S.								
	i) Class `B' working pressure:-								
	a) 3" i/d (75 mm)	Each	97.20	223.20	Each	97.20	223.20		
	b) 4" i/d (100 mm)	Each	110.00	380.00	Each	110.00	380.00		
	c) 5" i/d (125 mm)	Each	137.55	665.55	Each	137.55	665.55		
	d) 6" i/d (150 mm)	Each	141.65	910.85	Each	141.65	910.85		
	ii) Class `D' working pressure:-								
	a) 1½" i/d (30 mm)	Each	65.95	99.55	Each	65.95	99.55		
	b) 1½" i/d (40 mm)	Each	70.25	106.25	Each	70.25	106.25		
	c) 2" i/d (50 mm)	Each	75.20	147.20	Each	75.20	147.20		
	d) 3" i/d (75 mm)	Each	97.20	284.40	Each	97.20	284.40		
	e) 4" i/d (100 mm)	Each	110.00	545.60	Each	110.00	545.60		
	f) 5" i/d (125 mm)	Each	137.55	1133.55	Each	137.55	1133.55		
	g) 6" i/d (150 mm)	Each	141.65	1557.65	Each	141.65	1557.65		
38	Providing and installing P.V.C. tees, of B.S.S.								
	i) Class `B' working pressure:-								
	a) 3" i/d (80 mm)	Each	145.80	625.80	Each	145.80	625.80		
	b) 4" i/d (100 mm)	Each	166.95	1102.95	Each	166.95	1102.95		
	c) 5" i/d (125 mm)	Each	203.50	2075.50	Each	203.50	2075.50		
	d) 6" i/d (150 mm)	Each	212.45	2168.45	Each	212.45	2168.45		
	ii) Class `D' working pressure:-								
	a) 1½" i/d (30 mm)	Each	100.45	232.45	Each	100.45	232.45		
	b) 1½" i/d (40 mm)	Each	105.70	265.30	Each	105.70	265.30		
	c) 2" i/d (50 mm)	Each	112.35	322.35	Each	112.35	322.35		
	d) 3" i/d (75 mm)	Each	145.80	607.80	Each	145.80	607.80		
	e) 4" i/d (100 mm)	Each	166.95	1102.95	Each	166.95	1102.95		
	f) 5" i/d (125 mm)	Each	203.50	2063.50	Each	203.50	2063.50		
	g) 6" i/d (150 mm)	Each	212.45	2132.45	Each	212.45	2132.45		
39	Providing and installing P.V.C. sockets, B.S.S.								
	i) Class `B' working pressure:-								
	a) 3" i/d (75 mm)	Each	66.90	150.90	Each	66.90	150.90		
	b) 4" i/d (100 mm)	Each	79.75	229.75	Each	79.75	229.75		
	c) 5" i/d (125 mm)	Each	99.65	309.65	Each	99.65	309.65		
	d) 6" i/d (150 mm)	Each	103.80	391.80	Each	103.80	391.80		
	e) 8" i/d (200 mm)	Each	149.35	797.35	Each	149.35	797.35		
	f) 10" i/d (250 mm)	Each	174.10	1914.10	Each	174.10	1914.10		
	g) 12" i/d (300 mm)	Each	201.85	4281.85	Each	201.85	4281.85		
	h) 14" i/d (350 mm)	Each	225.40	3465.40	Each	225.40	3465.40		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ii) Class `D' working pressure:- a) 1¼" i/d (30 mm) b) 1½" i/d (40 mm) c) 2" i/d (50 mm) d) 3" i/d (75 mm) e) 4" i/d (100 mm) f) 5" i/d (125 mm) g) 6" i/d (150 mm)	Each	40.70	63.50	Each	40.70	63.50		
		Each	45.00	76.20	Each	45.00	76.20		
		Each	49.95	100.35	Each	49.95	100.35		
		Each	66.90	221.70	Each	66.90	221.70		
		Each	79.75	365.35	Each	79.75	365.35		
		Each	99.65	627.65	Each	99.65	627.65		
		Each	103.80	1027.80	Each	103.80	1027.80		
40	Providing and installing P.V.C. Tapered core, B.S.S.								
	i) Class `B' working pressure:- a) 3" i/d (75 mm) b) 4" i/d (100 mm) c) 5" i/d (125 mm) d) 6" i/d (150 mm) e) 8" i/d (200 mm) f) 10" i/d (250 mm) g) 12" i/d (300 mm) h) 14" i/d (350 mm)	Each	97.20	139.20	Each	97.20	139.20		
		Each	110.00	164.00	Each	110.00	164.00		
		Each	137.55	205.95	Each	137.55	205.95		
		Each	141.65	223.25	Each	141.65	223.25		
		Each	199.85	335.45	Each	199.85	335.45		
		Each	224.55	398.55	Each	224.55	398.55		
		Each	262.40	476.00	Each	262.40	476.00		
		Each	285.95	553.55	Each	285.95	553.55		
	ii) Class `D' working pressure:- a) 1¼" i/d (30 mm) b) 1½" i/d (40 mm) c) 2" i/d (50 mm)	Each	65.95	86.35	Each	65.95	86.35		
		Each	70.25	97.85	Each	70.25	97.85		
		Each	75.20	110.00	Each	75.20	110.00		
41	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc.  Diameter of running main: i) upto 6" i/d (150 mm) ii) upto 8" i/d (200 mm) iii) upto 10" i/d (250 mm) iv) upto 12" i/d (300 mm) v) upto 16" i/d (400 mm) vi) upto 20" i/d (500 mm) vii) upto 24" i/d (600 mm)	Per Connection	1682.35		Per Connection	1682.35			The rate includes the component of bailing out water from the trench and cutting of existing pipe line.
		ditto	2124.30		ditto	2124.30			
		ction	2996.40		ction	2996.40			
		ditto	4101.25		ditto	4101.25			
		ditto	5028.60		ditto	5028.60			
		ditto	6520.15		ditto	6520.15			
		ditto	7834.20		ditto	7834.20			
42	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe in trenches. complete in all respects:-  a) <b>PN-8 (SDR-21)</b> i) 3" i/d (90mm) ii) 4" i/d (110mm) iii) 5" i/d (125mm) iv) 6" i/d (160mm) v) 8" i/d (200mm)	P.Rft	5.65	127.75		18.60	419.10		
		P.Rft	8.90	182.00		29.15	597.05		
		P.Rft	9.80	231.95		32.10	761.10		
		P.Rft	10.65	374.80		34.95	1,229.70		
		P.Rft	12.90	579.90		42.30	1,902.70		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	vi) 10" i/d (250mm)	P.Rft	33.50	941.15		109.85	3,087.85		
	vii) 12" i/d (315mm)	P.Rft	39.45	1,556.15		129.40	5,105.80		
	viii) 14" i/d (355mm)	P.Rft	43.65	1,981.40		143.20	6,500.95		
b)	<b><u>PN-10 (SDR-17)</u></b>								
	i) 3" i/d (90mm)	P.Rft	5.65	150.80		18.60	494.80		
	ii) 4" i/d (110mm)	P.Rft	9.70	221.40		31.75	726.50		
	iii) 5" i/d (125mm)	P.Rft	10.70	280.90		35.20	921.70		
	iv) 6" i/d (160mm)	P.Rft	11.75	455.80		38.50	1,495.50		
	v) 8" i/d (200mm)	P.Rft	14.40	704.80		47.25	2,312.50		
	vi) 10" i/d (250mm)	P.Rft	36.00	1,109.40		118.15	3,639.95		
	vii) 12" i/d (315mm)	P.Rft	43.15	1,899.50		141.55	6,232.35		
	viii) 14" i/d (355mm)	P.Rft	48.30	2,437.05		158.45	7,995.95		
c)	<b><u>PN-12.5 (SDR-13.6)</u></b>								
	i) 3" i/d (90mm)	P.Rft	5.65	181.05		18.60	593.95		
	ii) 4" i/d (110mm)	P.Rft	9.70	265.35		31.75	870.55		
	iii) 5" i/d (125mm)	P.Rft	10.70	339.20		35.15	1,112.90		
	iv) 6" i/d (160mm)	P.Rft	11.75	552.90		38.50	1,814.10		
	v) 8" i/d (200mm)	P.Rft	14.40	859.45		47.20	2,819.90		
	vi) 10" i/d (250mm)	P.Rft	36.00	1,357.20		118.10	4,452.90		
	vii) 12" i/d (315mm)	P.Rft	43.15	2,397.15		141.50	7,865.05		
	viii) 14" i/d (355mm)	P.Rft	48.30	3,031.65		158.40	9,946.90		
d)	<b><u>PN-16 (SDR-11)</u></b>								
	i) 3" i/d (90mm)	P.Rft	6.10	216.95		20.00	711.75		
	ii) 4" i/d (110mm)	P.Rft	10.00	317.95		32.75	1,043.25		
	iii) 5" i/d (125mm)	P.Rft	11.15	409.85		36.50	1,344.75		
	iv) 6" i/d (160mm)	P.Rft	12.25	663.25		40.15	2,176.10		
	v) 8" i/d (200mm)	P.Rft	15.20	1,030.80		49.90	3,382.05		
	vi) 10" i/d (250mm)	P.Rft	39.05	1,644.45		128.05	5,395.45		
	vii) 12" i/d (315mm)	P.Rft	47.80	2,888.35		156.70	9,476.60		
	viii) 14" i/d (355mm)	P.Rft	62.20	3,665.35		204.05	12,026.00		

## 24. ELECTRIC INSTALLATION

Rates for all finished works include the removal of surplus debris, unused material and byproducts.

### MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Supply and erection of G.I. pipes for wiring purposes, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.								
	a) on surface, including clamps, etc.							38.4	
	i) 15 mm i/d	Per Rft.	20.40	67.20	Per Metre	66.95	220.45		
	ii) 20 mm i/d	Per Rft.	20.40	81.40	Per Metre	66.95	266.95		
	iii) 25 mm i/d	Per Rft.	20.40	104.10	Per Metre	66.95	341.50		
	iv) 32 mm i/d	Per Rft.	25.50	134.15	Per Metre	83.70	439.95		
	v) 40 mm i/d	Per Rft.	25.50	161.15	Per Metre	83.70	528.65		
	vi) 50 mm i/d	Per Rft.	30.40	199.30	Per Metre	99.65	653.70		
	vii) 80 mm i/d	Per Rft.	38.65	309.10	Per Metre	126.80	1,013.75		
	b) recessed in walls, including hooks, cutting jharries and repairing surface:							38.3	
	i) 15 mm i/d	Per Rft.	30.60	74.65	Per Metre	100.45	244.85		
	ii) 20 mm i/d	Per Rft.	30.60	90.25	Per Metre	100.45	296.05		
	iii) 25 mm i/d	Per Rft.	31.90	114.75	Per Metre	104.60	376.35		
	iv) 32 mm i/d	Per Rft.	31.90	139.80	Per Metre	104.60	458.50		
v) 40 mm i/d	Per Rft.	34.80	169.05	Per Metre	114.10	554.45			
vi) 50 mm i/d	Per Rft.	47.85	216.00	Per Metre	156.90	708.45			
vii) 80 mm i/d	Per Rft.	76.55	347.05	Per Metre	251.05	1,138.30			
2	Supply and erection of M.S. conduit pipes for wiring, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.							38.4 & 38.6	
	a) on surface, including clamps, etc.								
	i) 16 mm i/d	Per Rft.	14.20	35.30	Per Metre	46.50	115.80		
	ii) 20 mm i/d	Per Rft.	14.20	40.85	Per Metre	46.50	133.95		
	iii) 25 mm i/d	Per Rft.	14.20	46.25	Per Metre	46.50	151.70		
	iv) 32 mm i/d	Per Rft.	14.20	50.85	Per Metre	46.50	166.75		
	v) 40 mm i/d	Per Rft.	15.95	63.95	Per Metre	52.30	209.75		
	vi) 50 mm i/d	Per Rft.	19.65	78.10	Per Metre	64.40	256.25		
	b) recessed in walls, including cutting jharries, cost of hooks and repairing surface etc.							38.3 & 38.7	
	i) 16 mm i/d	Per Rft.	27.35	49.55	Per Metre	89.65	162.55		
	ii) 20 mm i/d	Per Rft.	27.35	54.55	Per Metre	89.65	178.90		
	iii) 25 mm i/d	Per Rft.	30.60	62.40	Per Metre	100.45	204.65		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	iv) 32 mm i/d	Per Rft.	31.90	68.55	Per Metre	104.60	224.90		
	v) 40 mm i/d	Per Rft.	33.30	80.25	Per Metre	109.15	263.25		
	vi) 50 mm i/d	Per Rft.	34.80	93.90	Per Metre	114.10	308.05		
3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.							38.3 & 38.5	
	i) 12 mm i/d	Per Rft.	24.70	35.35	Per Metre	81.00	115.90		
	ii) 20 mm i/d	Per Rft.	25.50	38.70	Per Metre	83.70	126.95		
	iii) 25 mm i/d	Per Rft.	28.35	45.70	Per Metre	93.00	149.90		
	iv) 32 mm i/d	Per Rft.	30.60	54.20	Per Metre	100.45	177.85		
	v) 40 mm i/d	Per Rft.	31.90	64.10	Per Metre	104.60	210.20		
	vi) 50 mm i/d	Per Rft.	33.30	77.30	Per Metre	109.15	253.55		
4	Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-								
	i) 12 mm i/d	Per Rft.	6.40	17.70	Per Metre	20.90	58.10		
	ii) 20 mm i/d	Per Rft.	6.40	20.15	Per Metre	20.90	66.15		
	iii) 25 mm i/d	Per Rft.	6.40	25.55	Per Metre	20.90	83.80		
	iv) 32 mm i/d	Per Rft.	7.30	33.85	Per Metre	23.90	111.00		
	v) 40 mm i/d	Per Rft.	7.30	43.90	Per Metre	23.90	143.95		
	vi) 50 mm i/d	Per Rft.	8.80	60.95	Per Metre	28.85	199.95		
5	Supply and erection of G.I. flexible pipe for wiring, including welding of sockets, nipples and check nuts, etc. complete:-							38.4	
	i) 12 mm i/d	Per Rft.	16.70	61.80	Per Metre	54.75	202.75		
	ii) 20 mm i/d	Per Rft.	17.80	78.75	Per Metre	58.40	258.35		
	iii) 25 mm i/d	Per Rft.	18.40	103.85	Per Metre	60.45	340.70		
	iv) 32 mm i/d	Per Rft.	22.25	126.90	Per Metre	73.00	416.30		
	v) 40 mm i/d	Per Rft.	24.30	143.25	Per Metre	79.65	469.90		
	vi) 50 mm i/d	Per Rft.	26.70	185.25	Per Metre	87.65	607.65		
	vii) 80 mm i/d	Per Rft.	35.60	353.35	Per Metre	116.85	1,158.90		
6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-							38.2 & 38.3	
	i) 50 mm i/d	Per Rft.	33.30	79.00	Per Metre	109.15	259.10		
	ii) 80 mm i/d	Per Rft.	38.25	100.70	Per Metre	125.55	330.40		
	iii) 100 mm i/d	Per Rft.	38.25	126.40	Per Metre	125.55	414.55		
7	Supply and erection of PVC pipe for surface wiring (main and sub-main) including clamps, inspection boxes, pull boxes bends etc., complete with all specials:-								

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	i) 50 mm i/d	Per Rft.	8.80	55.70	Per Metre	28.85	182.70		
	ii) 80 mm i/d	Per Rft.	12.75	91.90	Per Metre	41.85	301.50		
	iii) 100 mm i/d	Per Rft.	14.60	115.95	Per Metre	47.80	380.35		
8	Supply and erection of wooden strip batten for wiring purposes, including clips, insulation cleats, etc.	Per Rft.	2.55	4.85	Per Metre	8.35	15.95	38.8	Additional width required to accommodate wires will be provided by erection of additional strips.
9	Supply and erection of Sahl wood casing and capping for wiring purposes, including insulation cleats, screws, etc. complete.	Per Rft.	2.55	14.10	Per Metre	8.35	46.30	38.8	
10	Supply and erection of single core PVC insulated copper conductor cables, in pre-laid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing and capping/G.I. wire/trenches (rate for cables only):-							38.1	
	a) 250/440 volts, PVC insulated:								
	i) 3/0.74 mm (3/0.029")	Per Rft.	5.10	11.50	Per Metre	16.75	37.80		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	5.10	11.95	Per Metre	16.75	39.20		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	5.10	15.80	Per Metre	16.75	51.85		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	5.65	22.80	Per Metre	18.60	74.75		
	v) 7/1.12 mm (7/0.044")	Per Rft.	6.40	32.05	Per Metre	20.90	105.15		
	vi) 7/1.63 mm (7/0.064")	Per Rft.	7.85	75.45	Per Metre	25.75	247.50		
	vii) 19/1.32 mm (19/0.052")	Per Rft.	18.25	123.75	Per Metre	59.80	405.85		
	viii) 19/1.63 mm (19/0.064")	Per Rft.	21.25	168.30	Per Metre	69.75	552.05		
	b) 250/440 volts, PVC insulated cotton braided and compounded cables:-								
	i) 3/0.74 mm (3/0.029")	Per Rft.	5.65	12.10	Per Metre	18.60	39.65		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	5.65	12.50	Per Metre	18.60	41.05		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	5.65	16.35	Per Metre	18.60	53.70		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	6.00	23.10	Per Metre	19.70	75.85		
	v) 7/1.12 mm (7/0.044")	Per Rft.	6.70	32.40	Per Metre	22.00	106.25		
	vi) 7/1.63 mm (7/0.064")	Per Rft.	7.75	75.35	Per Metre	25.35	247.10		
11	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in pre-laid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):-								
	i) 3/0.74 mm (3/0.029")	Per Rft.	5.10	11.10	Per Metre	16.75	36.40		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	5.10	14.10	Per Metre	16.75	46.20		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	5.10	18.35	Per Metre	16.75	60.25		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	5.65	25.80	Per Metre	18.60	84.55		
	v) 7/1.12 mm (7/0.044")	Per Rft.	6.40	35.90	Per Metre	20.90	117.75		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
12	vi) 7/1.63 mm (7/0.064")	Per Rft.	7.85	69.05	Per Metre	25.75	226.45	38.1 to 38.7	
	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-								
	i) 7/1.63 mm (7/0.064")	Per Rft.	7.75	77.65	Per Metre	25.35	254.70		
	ii) 19/1.32 mm (19/0.052")	Per Rft.	8.50	129.30	Per Metre	27.90	424.05		
	iii) 19/1.63 mm (19/0.064")	Per Rft.	9.30	174.10	Per Metre	30.45	571.10		
	iv) 19/2.11 mm (19/0.083")	Per Rft.	10.20	330.15	Per Metre	33.50	1,082.90		
	v) 37/1.83 mm (37/0.072")	Per Rft.	17.60	459.60	Per Metre	57.70	1,507.45		
	vi) 37/2.11 mm (37/0.083")	Per Rft.	21.25	576.40	Per Metre	69.75	1,890.55		
13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-							ditto	
	a) PVC insulated, PVC sheathed twin core, 250/440 volts.								
	i) 3/0.74 mm (3/0.029")	Per Rft.	5.65	18.95	Per Metre	18.60	62.10		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	5.65	25.80	Per Metre	18.60	84.55		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	5.65	34.35	Per Metre	18.60	112.65		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	6.00	49.20	Per Metre	19.70	161.45		
	v) 7/1.12 mm (7/0.044")	Per Rft.	6.70	69.20	Per Metre	22.00	226.95		
	vi) 7/1.63 mm (7/0.064")	Per Rft.	7.75	135.70	Per Metre	25.35	445.10		
	b) PVC insulated, PVC sheathed 3 core, 660/1100 volt cable:-								
	i) 3/0.74 mm (3/0.029")	Per Rft.	6.00	27.40	Per Metre	19.70	89.85		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	6.00	38.10	Per Metre	19.70	124.95		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	6.00	50.95	Per Metre	19.70	167.05		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	6.70	73.65	Per Metre	22.00	241.65		
	v) 7/1.12 mm (7/0.044")	Per Rft.	7.10	104.15	Per Metre	23.25	341.55		
	vi) 7/1.63 mm (7/0.064")	Per Rft.	8.10	208.55	Per Metre	26.55	684.00		
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-								
	i) 3/0.74 mm (3/0.029")	Per Rft.	6.40	34.60	Per Metre	20.90	113.55		
	ii) 3/0.91 mm (3/0.036")	Per Rft.	6.40	47.45	Per Metre	20.90	155.65		
	iii) 7/0.74 mm (7/0.029")	Per Rft.	6.70	64.35	Per Metre	22.00	211.05		
	iv) 7/0.91 mm (7/0.036")	Per Rft.	6.70	94.00	Per Metre	22.00	308.35		
	v) 7/1.12 mm (7/0.044")	Per Rft.	7.10	134.20	Per Metre	23.25	440.25		
	vi) 7/1.63 mm (7/0.064")	Per Rft.	8.10	270.85	Per Metre	26.55	888.35		
vii) 19/1.32 mm (19/0.052")	Per Rft.	11.35	504.20	Per Metre	37.20	1,653.70			
d) PVC insulated, PVC sheathed 4 core 660/1100 volt grade cable,							Cost of trenches where necessary		



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	armoured with G.I. wire 16 SWG.								is included in the rates.
	i) 19/1.32 mm (19/0.052")	Per Rft.	11.35	561.80	Per Metre	37.20	1,842.75		
	ii) 19/1.63 mm (19/0.064")	Per Rft.	12.15	749.90	Per Metre	39.85	2,459.75		
	iii) 19/1.83 mm (19/0.072")	Per Rft.	12.75	1,014.55	Per Metre	41.85	3,327.65		
	iv) 19/2.11 mm (19/0.083")	Per Rft.	13.80	1,418.55	Per Metre	45.25	4,652.90		
	v) 37//1.83 mm (37/0.072")	Per Rft.	14.20	1,930.85	Per Metre	46.50	6,333.20		
	vi) 37/2.11 mm (37/0.083")	Per Rft.	17.00	2,440.50	Per Metre	55.80	8,004.90		
	vii) 37/2.36 mm (37/0.093")	Per Rft.	20.40	2,974.45	Per Metre	66.95	9,756.25		
	viii) 37/2.62 mm (37/0.103")	Per Rft.	25.50	3,702.10	Per Metre	83.70	12,142.85		
14	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc.							38.1 to 38.7	
	i) 10 x 10 cm (4"x4")	Each	83.70	154.00	Each	83.70	154.00		
	ii) 17.5 x 10 cm (7"x4")	Each	104.60	203.00	Each	104.60	203.00		
	iii) 22.5 x 10 cm (9"x4")	Each	139.50	260.10	Each	139.50	260.10		
	iv) 20 x 25 cm (8"x10")	Each	167.40	372.00	Each	167.40	372.00		
	v) 25 x 30 cm (10"x12")	Each	209.20	488.95	Each	209.20	488.95		
	vi) 30 x 35 cm (12"x14")	Each	278.95	636.45	Each	278.95	636.45		
15	Supply and erection of round block of Sahl wood, 10x4 cm (4"x1½") thick.	Each	23.90	37.25	Each	23.90	37.25	38.1	
16	Supply and erection of teak wood board, 4.5 cm (1¾") thick.							38.1	
	i) 17.5 x 10 cm (7"x4")	Each	33.50	90.55	Each	33.50	90.55		
	ii) 22.5 x 10 cm (9"x4")	Each	33.50	102.90	Each	33.50	102.90		
	iii) 20 x 25 cm (8"x10")	Each	37.20	120.20	Each	37.20	120.20		
	iv) 25 x 30 cm (10"x12")	Each	41.85	162.15	Each	41.85	162.15		
	v) 30 x 35 cm (12"x14")	Each	47.80	218.80	Each	47.80	218.80		
17	Supply and erection of Sahl wood board, 4.5 cm (1¾") thick.								
	i) 17.5 x 10 cm (7"x4")	Each	33.50	70.15	Each	33.50	70.15		
	ii) 22.5 x 10 cm (9"x4")	Each	33.50	88.70	Each	33.50	88.70		
	iii) 20 x 25 cm (8"x10")	Each	37.20	104.15	Each	37.20	104.15		
	iv) 25 x 30 cm (10"x12")	Each	41.85	124.85	Each	41.85	124.85		
	v) 30 x 35 cm (12"x14")	Each	47.80	147.55	Each	47.80	147.55		
18	Supply and erection of iron/aluminum clad, 500 volts main switches with kitkat fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and thimbles, etc.							38.1	When the base frame is already installed, the labour and composite rates will be reduced as follows:- For 15 to 35 Amps. by Rs. 21.20 and Rs. 145.50. For 60 to 65 Amps. by Rs. 38.80 and Rs. 252.60. For 100 Amps. by Rs. 38.80 and Rs. 350.80.
	a) double pole:								
	i) 15/20 Amp.	Each	557.90	1,611.75	Each	557.90	1,611.75		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ii) 30/35 Amp.	Each	557.90	1,902.20	Each	557.90	1,902.20		
	iii) 60/65 Amp.	Each	836.90	2,500.65	Each	836.90	2,500.65		
	iv) 100 Amp.	Each	836.90	3,056.85	Each	836.90	3,056.85		
	b) triple pole:								
	i) 15/20 Amp.	Each	836.90	2,218.25	Each	836.90	2,218.25		
	ii) 30/35 Amp.	Each	557.90	2,371.85	Each	557.90	2,371.85		
	c) triple pole with neutral link:								
	i) 30/35 Amp.	Each	557.90	2,544.90	Each	557.90	2,544.90		
	ii) 60/65 Amp.	Each	836.90	3,245.50	Each	836.90	3,245.50		
	iii) 100 Amp.	Each	1,096.30	4,017.90	Each	1,096.30	4,017.90		
19	Supply and erection of iron/aluminum clad, 500 volts main switches with triple pole and neutral link and HRC fuses, on angle iron board with 3 mm (1/8") thick M.S. sheet covering, including bonding to earth with necessary flexible pipe and thimbles.							38.1	When the base frame is already installed, the labour & composite rates will be reduced as follows:-
	60/65 Amp	Each	836.90	3,289.75	Each	836.90	3,289.75		i) For 60/65 Amp. by Rs. 21.20 and Rs. 145.50.
	100 Amp	Each	1,096.30	4,587.40	Each	1,096.30	4,587.40		ii) For 100 to 300 Amp. by Rs. 21.20 and Rs. 350.80
	150 Amp	Each	1,096.30	6,152.15	Each	1,096.30	6,152.15		iii) For 400 to 500 Amp. by Rs. 42.20 and Rs. 526.20
	200 Amp	Each	2,510.65	10,125.00	Each	2,510.65	10,125.00		
	300 Amp	Each	2,510.65	11,534.05	Each	2,510.65	11,534.05		
	400 Amp	Each	3,556.75	15,584.25	Each	3,556.75	15,584.25		
	500 Amp	Each	3,765.95	19,602.50	Each	3,765.95	19,602.50		
20	Supply and erection of iron/aluminum clad, branch distribution board, 250 volt, on angle iron frame of suitable size with 3 mm (1/8") M.S. sheet covering:							ditto	When the base frame is already installed the labour and composite rates will be reduced by Rs. 19.50 & Rs. 152.20 respectively.
	i) 2 way, 15 Amp per way	Each	278.95	686.55	Each	278.95	686.55		
	ii) 3 way, 15 Amp per way	Each	278.95	686.55	Each	278.95	686.55		
	iii) 4 way, 15 Amp per way	Each	278.95	760.70	Each	278.95	760.70		
	iv) 5 way, 15 Amp per way	Each	278.95	822.50	Each	278.95	822.50		
	v) 6 way, 15 Amp per way	Each	278.95	865.75	Each	278.95	865.75		
	vi) 7 way, 15 Amp per way	Each	278.95	921.40	Each	278.95	921.40		
	vii) 8 way, 15 Amp per way	Each	278.95	970.85	Each	278.95	970.85		
	viii) 9 way, 15 Amp per way	Each	278.95	1,026.45	Each	278.95	1,026.45		
	ix) 10 way, 15 Amp per way	Each	278.95	1,106.80	Each	278.95	1,106.80		
	x) 11 way, 15 Amp per way	Each	278.95	1,168.60	Each	278.95	1,168.60		
	xi) 12 way, 15 Amp per way	Each	278.95	1,224.20	Each	278.95	1,224.20		
	xii) 2 way, 30 Amp per way	Each	418.45	826.05	Each	418.45	826.05		
	xiii) 3 way, 30 Amp per way	Each	418.45	832.20	Each	418.45	832.20		
	xiv) 4 way, 30 Amp per way	Each	418.45	894.00	Each	418.45	894.00		
	xv) 5 way, 30 Amp per way	Each	418.45	962.00	Each	418.45	962.00		
	xvi) 6 way, 30 Amp per way	Each	418.45	1,005.25	Each	418.45	1,005.25		
	xvii) 7 way, 30 Amp per way	Each	418.45	1,073.25	Each	418.45	1,073.25		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	xviii 8 way, 30 Amp per way	Each	418.45	1,128.85	Each	418.45	1,128.85		
	xix) 9 way, 30 Amp per way	Each	418.45	1,178.30	Each	418.45	1,178.30		
	xx) 10 way, 30 Amp per way	Each	418.45	1,264.80	Each	418.45	1,264.80		
21	Supply and erection of bus bars, for 500 volts 3 phase A.C. supply with four copper bars, including glazed porcelain bridges, on angle iron board, fixed with rag bolts and M.S. sheet box 1.5 mm thick, etc. complete:-							38.1	When the base frame is already installed the labour and composite rates will be reduced by Rs. 21.20 and Rs. 145.50 respectively.
	i) 60 Amp. with 4 copper bars size 1½"x1/8" (40 x 3 mm)	Each	995.95	3,103.25	Each	995.95	3,103.25		
	ii) 100 Amp. with 4 copper bars size 1½"x1/8" (40 x 3 mm)	Each	995.95	3,103.25	Each	995.95	3,103.25		
	iii) 200 Amp with 4 copper bars size 2"x1/8" (50x 3 mm)	Each	1,573.45	3,779.60	Each	1,573.45	3,779.60		
	iv) 300 Amp with 4 copper bars size 2"x3/16" (50x 5 mm)	Each	1,883.00	4,089.15	Each	1,883.00	4,089.15		
	v) 500 Amp with 4 copper bars size 2"x1/4" (50x 6 mm)	Each	1,205.15	4,019.00	Each	1,205.15	4,019.00		
22	i) Supply and erection of plain pendent lamp holder, complete with bakelite lamp holder and flexible twin wire 23/0.0076" upto 2 metre length (without bulb and shade).	Each	17.45	109.55	Each	17.45	109.55	38.1	
	ii) Extra for additional length of flexible wire, beyond 2 metres.	Per Rft.		1.65	Per Metre	--	5.45		
23	Supply and erection of counter weight pendent with porcelain counter weight, and fitting on bakelite lamp holder, with flexible twin wire 23/0.0076" complete (without bulb and shade).	Each	34.85	244.15	Each	34.85	244.15	38.1	
24	Supply and erection of stiff pendent with brass/metal pipe 6.3 cm (2.5") long, and 15 mm (½") dia brass oxidised or painted, along with brass lamp holder with VIR/PVC cable 3/0.74 mm (3/0.029").	Each	52.45	395.40	Each	52.45	395.40	ditto	
25	Supply and erection of 22.5 cm (9") long swan neck plain brass/steel brass oxidised bracket lamp holder, complete.	Each	54.25	117.90	Each	54.25	117.90	ditto	
26	Supply and erection of wall type/pole type bracket, with double cover water tight reflector, flexible wire and brass holder.	Each	74.95	435.65	Each	74.95	435.65	ditto	
27	Supply and erection of bakelite button holder shade, large size.	Each	12.05	51.45	Each	12.05	51.45	ditto	
28	Supply and erection of call bell 220/250 volts, fixed on teak wood board 17.5x10 cm (7"x4").	Each	52.45	237.80	Each	52.45	237.80	38.1	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
29	Supply and erection of bell push or bed switch, with 5 metres twin flexible wire 23/0.0076".	Each	10.45	212.95	Each	10.45	212.95	38.1	
30	Supply and erection of ceiling rose, bakelite.	Each	17.45	37.50	Each	17.45	37.50	ditto	
31	Supply and erection of switches 5 Amp.								
	i) open type	Each	16.75	34.30	Each	16.75	34.30	ditto	
	ii) piano type	Each	16.75	34.30	Each	16.75	34.30		
	iii) ring type, recessed	Each	16.75	29.10	Each	16.75	29.10		
	iv) plate type, recessed	Each	16.75	51.60	Each	16.75	51.60		
	v) double control, open type	Each	23.20	52.40	Each	23.20	52.40		
	vi) double control, ring type recessed	Each	23.20	46.20	Each	23.20	46.20		
	vii) double control, piano type	Each	23.20	47.45	Each	23.20	47.45		
32	Supply and erection of switches 10/15 Amp.							ditto	
	i) open type	Each	16.75	43.45	Each	16.75	43.45		
	ii) recessed type	Each	16.75	53.35	Each	16.75	53.35		
33	Supply and erection of wall socket with 3 pin 5 Amp, shoe.	Each	16.75	80.55	Each	16.75	80.55	ditto	
34	Supply and erection of 3 pin. 5 Amp wall socket.	Each	16.75	55.80	Each	16.75	55.80	ditto	
35	Supply and erection of 3 pin, 10/15 Amp. wall socket.							ditto	
	i) open type	Each	16.75	49.65	Each	16.75	49.65		
	ii) recessed type	Each	16.75	86.70	Each	16.75	86.70		
36	Supply and erection of 3 pin switch and plug combined, recessed type.							ditto	
	i) 5 Amp	Each	16.75	70.20	Each	16.75	70.20		
	ii) 10/15 Amp	Each	16.75	95.90	Each	16.75	95.90		
37	Supply and erection of 3 pin 10/15 Amp. wall socket with shoe, open type.	Each	16.75	148.50	Each	16.75	148.50	ditto	
38	Supply and erection of cut out, bakelite.							ditto	
	i) open type	Each	9.30	36.00	Each	9.30	36.00		
	ii) recessed type	Each	9.30	42.20	Each	9.30	42.20		
39	Supply and erection of button holder.							38.1	
	i) bakelite large size	Each	10.45	29.75	Each	10.45	29.75		
	ii) brass	Each	10.45	42.15	Each	10.45	42.15		
40	Supply and erection of brass bracket with holder.	Each	13.95	45.60	Each	13.95	45.60	ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
41	Supply and erection of bell push open/recessed type (without flexible wire).	Each	9.30	29.85	Each	9.30	29.85	ditto	
42	Supply and erection of kitkat, 500 volt:							ditto	
	i) 15/20 Amp	Each	17.00	49.45	Each	17.00	49.45		
	ii) 30/35 Amp	Each	18.55	51.00	Each	18.55	51.00		
	iii) 60/65 Amp	Each	28.35	74.70	Each	28.35	74.70		
	iv) 100 Amp	Each	31.90	121.50	Each	31.90	121.50		
	v) 200 Amp	Each	36.45	163.15	Each	36.45	163.15		
	vi) 300 Amp	Each	36.45	323.85	Each	36.45	323.85		
	vii) 400 Amp	Each	48.20	403.55	Each	48.20	403.55		
	viii) 500 Amp	Each	48.20	579.70	Each	48.20	579.70		
43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete.							38.1	
	i) double rod (80 watts) with two chokes and 2 starters.	Per set	301.30	1,259.45	Per set	301.30	1,259.45		
	ii) single rod (40 watts) with one choke and one starter.	ditto	241.05	680.10	ditto	241.05	680.10		
	iii) round tube, 32 watt, with one choke and one starter, without cover.	Each	241.05	738.20	Each	241.05	738.20		
	iv) round tube, 32 watt with one chock and one starter, with cover.	ditto	200.85	821.60	ditto	200.85	821.60		
44	Providing and fixing M.S. iron box for housing main switches, made of 1.5 mm (1/16") thick M.S. sheet, with locking arrangement, including painting:-							ditto	
	i) 60x35x15 cm (24"x14"x6")	Each	628.75	2,246.35	Each	628.75	2,246.35		
	ii) 95x40x20 cm (38"x16"x8")	Each	908.05	2,818.55	Each	908.05	2,818.55		
	iii) 105x52.5x22.5 cm (42"x21"x9")	Each	1,380.90	3,923.00	Each	1,380.90	3,923.00		
	iv) 135x70x27.5 cm (54"x28"x11")	Each	1,519.00	5,482.25	Each	1,519.00	5,482.25		
45	Supply and erection of girder clamp hook, 16 mm (5/8") with M.S. plate 25x6 mm (1"x¼"), with bolts and nuts for hanging ceiling fans.	Each	40.15	155.10	Each	40.15	155.10	38.1 & 38.10	
46	Supply and erection of girder strut, of M.S. tee section 40x40x6 mm (1½"1½"x¼"), complete with clamp, bolts and nuts, etc., including fixing with cement concrete 1:3:6.	Each	52.45	942.30	Each	52.45	942.30	ditto	
47	Supply and erection of roof suspension hook, 16 mm (5/8") dia rod with 75x40x3 mm (3"x1½"x1/8") M.S. steel channel, with clamp, bolts and nuts, etc., including fixing with cement concrete 1:3:6.	Each	56.20	1,237.00	Each	56.20	1,237.00	38.1	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
48	Supply and erection of roof suspension hook of M.S plate 75x40x12.7mm (3"x1½"x½") with 16 mm (5/8") hook complete with bolts, nuts and fixing with cement concrete 1:3:6	Each	74.95	521.15	Each	74.95	521.15		
49	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	Each	21.45	38.75	Each	21.45	38.75	ditto	
50	Erection of circular L.T. pole in cement concrete 1:3:6 one metre below ground level (excluding the cost of pole), including cement concrete collar (1:2:4) excavation of foundation, and finishing surface.	Each	673.55	2,653.95	Each	673.55	2,653.95	38.12	
51	Supply and erection of bracket of M.S. channel 75x40x6 mm (3"x1½"x¼") section:-								
	i) 0.60 metre (2') long for 2 lines.	Each	149.45	596.10	Each	149.45	596.10		
	ii) 1.200 metre (4') long for 4 lines.	Each	174.35	1,323.95	Each	174.35	1,323.95		
52	Supply and erection of anchor rod Henley type for pole, including necessary clamps and 7/12" stay wire, straining screws, etc., erected in cement concrete 1:3:6 and collar of cement concrete.	Per Rft.	10.05	23.90	Per Metre	33.00	78.40	38.14	
53	Supply and erection of stay for house service pipe, erected with straining screws and 7/14" stay wire, complete.	Per Rft.	14.60	37.20	Per Metre	47.80	122.05	ditto	
54	Supply and erection of house service pipe Henley (G.I. pipe water quality) or pole type, 50 mm (2") dia, erected to instal insulated overhead line, include shackle insulator for holding insulated wire and straining devices for bearer wire and other accessories etc., complete.	Per Rft.	63.80	266.85	Per Metre	209.20	875.30		
55	Supply and erection of house service pipe 50 mm (2") dia G.I. pipe Henley or pole type for bare copper wire overhead line, including shackle insulator, straining devices and other accessories etc.	Per Rft.	58.70	259.70	Per Metre	192.50	851.80		
56	Supply and erection of lightning arrestor horn type, complete.	Each	314.70	2,539.50	Each	314.70	2,539.50		
57	Supply and erection of shackle insulator, medium size.	Each	39.45	206.30	Each	39.45	206.30	38.12	
58	Supply and erection of pin insulator, green medium size.	Each	39.45	88.90	Each	39.45	88.90	ditto	
59	Supply and erection of bare copper conductor wire No. 2 to No. 10 SWG, including binding wire No. 16 SWG.	Per Kg	20.50	1,074.80	Per Kg	20.50	1,074.80	38.1	
60	Supply and erection of G.I. wire of all sizes, including binding wire No. 16 SWG for support of rubber wire or earthing wire, pole to pole etc.	Per Kg	20.50	135.45	Per Kg	20.50	135.45	ditto	

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
61	Wiring overhead line in 2 single core, PVC/weather proof cable, on G.I. wire No. 8 SWG bearer wire and in house service pipe, including connection through joint box.							38.12	
	i) 3/0.74 mm (3/0.029")	Per Rft.	5.35	13.35	Per Metre	17.50	43.75		
	ii) 7/0.74 mm (7/0.029")	ditto	5.35	21.70	ditto	17.50	71.15		
	iii) 7/0.91 mm (7/0.036")	ditto	5.35	28.35	ditto	17.50	92.95		
	iv) 7/1.12 mm (7/0.044")	ditto	5.35	37.50	ditto	17.50	122.95		
62	Supply and erection of all aluminum stranded hard drawn bare conductor, of size 7/3.099 mm (7/0.122").	Per Rft.	9.80	23.10	Per Metre	32.20	75.80	38.1	
63	Supply and erection of street light pole bracket 30 mm (1¼") G.I. pipe 2 metre long, complete with 2 No. pole clamp.	Each	262.25	1,021.05	Each	262.25	1,021.05		
64	Supply and erection of pole mounted street light, holders, shade and glass, etc., for fitting 125/250 watts mercury vapour lamp (excluding cost of lamps):								
	i) G.E.C. design	Each	524.50	2,947.05	Each	524.50	2,947.05		
	ii) Philips design	ditto	524.50	3,330.20	ditto	524.50	3,330.20		
65	Supply and fitting of mercury vapour lamp, complete with choke set.								
	i) 125 watt lamp	Each	200.85	1,127.85	Each	200.85	1,127.85		
	ii) 250 watt lamp	ditto	241.05	2,033.25	ditto	241.05	2,033.25		
66	Manufacture and erection of angle iron lattice steel structure pole (36.0') 10,923 mm long 9348 mm (30.5') above ground level) 355 mm (14") square at base and 204 mm (8") square at top for electric distribution line, using 1¼"x1¼"x3/16" (30x30x5 mm) angle iron legs and ¾"x¾" 1/8" (20x20x3 mm) angle iron bracing 420 mm (17") long fixed between legs on all the four sides in diagonal position, and 1¼"x1¼"x3/16" (45x45x5 mm) angle iron on top and 4 bands of M.S. flat iron 2"x¼" (50x6 mm) 305 mm (12") centre to centre, as per standard drawing including silver painting of pole 3 coats, excavation and refilling of foundation cement concrete 1:2:4. 6'-0"x1'-8"x1'-8" (1807x500x500 mm) for foundation, etc, complete in all respects.	Each	8,819.20	23,750.15	Each	8,819.20	23,750.15	38.13	The composite rate will be reduced or increased by Rs. 36.50 for each (100 mm) of reduction or addition in the height of the pole above ground level.
67	Manufacture and erection of galvanized angle iron lattice steel structure pole 37 ft. (11.25 m) long 30 ft. (9 m) above ground level, 34" square (850 mm) at base, 13.75" (35 mm) square at top, for electric distribution line, using 2"x2"x5/32" (50x50x4mm) high tensile steel angle iron legs, and 1-3/8"x 1-3/8"x1/8" (35x35x3 mm) M.S. angle iron bracings fixed between legs on all the four sides in diagonal position as per standard drawing including silver painting of pole, excavation and refilling of foundation, one ft. (300 mm) thick cement concrete 1:3:6 foundation of outer size 8'x3½'x3½'	Each	8,533.30	34,796.65	Each	8,533.30	34,796.65	38.13	The composite rate will be reduced or increased by Rs. 237.00 for each foot (300 mm) of reduction or addition in the height of the pole above ground level.

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	(2400x1050x1050 mm), etc. complete in all respects.								
68	Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (½") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	Job	1,155.00	4,368.10	Job	1,155.00	4,368.10		
69	Earthing of Metallic cases, etc. with G.I. wire No. 8 SWG, in 15 mm (½") dia G.I. pipe, best quality:- i) on surface, including clamps, etc. ii) recessed in wall, including hooks, jharries and making good surface.	Per Rft. ditto	12.00 28.15	57.50 74.80	Per Metre ditto	39.35 92.40	188.55 245.30	38.11	
70	Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc. a) G.I. wire: i) 8 SWG ii) 16 SWG b) Copper wire: i) 16 SWG ii) 20 SWG	Per Rft. ditto	5.10 5.10	11.75 6.85	Per Metre ditto	16.75 16.75	38.55 22.55	ditto	
71	Erection only, of lightning conductor of copper tape, including supply of copper staple and copper nails and cement, sand mortar.	Per Rft.	19.20	23.85	Per Metre	62.95	78.20	38.11	Rate includes all materials required in erection (excluding copper tape lightning conductor).
72	Supply and erection of 600x600x3 mm (2'x2'x1/8") copper plate, including rebitting to copper tape and placing in mixture of salt and charcoal, etc.	Each	770.00	4,633.20	Each	770.00	4,633.20	ditto	
73	Supply and erection of copper tape, including copper staple copper nails, cement, sand, etc. i) tape 40x3 mm (1½"x1/8") ii) tape 50x3 mm (2"x1/8")	Per Rft. ditto	28.15 28.15	269.65 320.00	Per Metre ditto	92.40 92.40	884.45 1,049.60		
74	Supply and erection of 25 mm (1") dia and one metre long lightning conductor copper rod with 5 spikes on ball and base, etc. complete.	Job	524.50	2,860.50	Job	524.50	2,860.50		
75	Supply and erection of electric energy meter, including meter testing fee, etc. a) single phase: i) 1x10 Amp, 250 volts	Each	209.20	2,345.20	Each	209.20	2,345.20	38.1	



**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	ii) 1x30 Amp, 250 volts	ditto	209.20	2,345.20	ditto	209.20	2,345.20		
	b) three phase, 4 wires:								
	i) 3x15 Amp, 400 volts	Each	418.45	6,173.65	Each	418.45	6,173.65		
	ii) 3x50 Amp, 400 volts	ditto	602.60	6,357.80	ditto	602.60	6,357.80		
	iii) 3x80 Amp, 400 volts	ditto	602.60	6,357.80	ditto	602.60	6,357.80		
76	Rewinding of A.C. ceiling fan, capacitor type, including cost of wire, leatheride paper cotton tape, soldering, etc.								The credit of out turn of dismantled material has been accounted for in the rate.
	i) 1200 mm (48") sweep, 275-300 RPM.	Each	405.90	1,023.50	Each	405.90	1,023.50		
	ii) 1400 mm (56") sweep, 250-275 RPM.	ditto	451.95	1,175.20	ditto	451.95	1,175.20		
77	Rewinding of A.C. exhaust fan, including cost of wire, leatheride paper, cotton tape, soldering, etc.								The credit of out turn of dismantled material has been accounted for in the rate.
	i) 375 mm (15") sweep, and 1300-1500 RPM	Each	278.95	707.45	Each	278.95	707.45		
	ii) 450 mm (18") sweep, and 1300-1500 RPM	ditto	278.95	788.40	ditto	278.95	788.40		
78	Rewinding of pedestal fan 600 mm (24") sweep, and 900-950 RPM, including wire, leatheride paper, cotton, tape, etc.	Each	334.75	916.50	Each	334.75	916.50		The credit of out turn of dismantled material has been accounted for in the rate.
79	Supply and fitting of regulator knob with shaft and plate of electric fan regulator.	Each	52.30	114.10	Each	52.30	114.10	38.1	
80	Supply and fitting of capacitor 2.2 uF, for ceiling fans.	Each	41.85	66.55	Each	41.85	66.55	ditto	
81	Supply and fitting of ball bearing of size 6201, 6202 or 6203 for ceiling fans.	Each	52.30	175.90	Each	52.30	175.90	ditto	
82	Rewinding regulator of ceiling fan 48"/56" (1200/1400 mm) sweep, to control 3/4 speeds.	Each	104.60	217.95	Each	104.60	217.95		The credit out turn of dismantled material has been accounted for in the rate.
83	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.	Each	201.00	239.15	Each	201.00	239.15		

## 25. IRON WORK

The Rates for all finished works include the removal of surplus debris, unused material and byproducts.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	<b>Railway Track, etc.</b>								
1	Laying, linking and packing tramway line.	100Lft.	1951.35		Metre	64.00			
2	Dismantling tramway track.	100Lft.	645.65		Metre	21.20			
3	Laying, linking of B.G. track, including packing, straightening and leveling.	100Lft.	5077.60		Metre	166.55			
4	Linking points and crossings, complete with fastenings.	Each	4887.95		Each	4887.95			
5	Bending or straightening B.G. rail with Jim Crow.	Each Point	535.65		Each Point	535.65			
6	Fixing street lamp posts.	Each	626.10		Each	626.10			
7	Binding ends of sleepers and timber of all sizes and kinds, including spreading and restacking.	100 Nos	5909.00		100 Nos	5909.00			
8	Opening stacks of sleepers and timber of all kinds and sizes, including spreading for inspection and restacking within one chain lead.	100 Nos	743.25		100 Nos	743.25			
	<b>IRON WORK</b>								
9	Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing; but excluding erection in position.	Per Cwt	3096.70	8020.95	100 Kg	6095.90	15789.30		
10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, re-ritting, handling, assembling and fixing, but excluding erection in position.	Per Cwt	1101.55	5781.85	100 Kg	2168.40	11381.55		
11	Erection and fitting in position iron trusses, staging of water tanks, etc.	Per Cwt	349.65		100 Kg	688.30			
12	Fixing corrugated iron sheet, including re-ritting, etc.	100 Sft.	1258.75		sq.m	135.45			
13	Erecting corrugated iron sheet tanks, upto 20' (6 m) height.	Per Cwt	608.50		100 Kg	1197.85			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
14	Erecting rolled steel beams or old rails, in roofs, etc., erection and fixing in position.	Per Cwt	369.95		100 Kg	728.25			
15	Erecting rolled steel beams or rails, erection for posts etc. (other than in roofs).	Per Cwt	179.65		100 Kg	353.70			
16	Making bolts and nuts of iron rods.	Per Cwt	2377.00	7929.60	100 Kg	4679.10	15609.45		
17	Cutting rails, rolled steel joists and beams, with hacksaw:-								
	a) upto 6" size (150 mm)	Per Cut	236.00		Per Cut	236.00			
	b) above 6" size (150 mm)	Per Cut	348.15		Per Cut	348.15			
18	Cutting rails or rolled steel beams of size below 6" (150 mm), with jim.	Per Cut	112.40		Per Cwt Cut	112.40			
19	Bending rolled steel beams or rails.	Per Bend	119.70	371.60	Per Bend	119.70	371.60		
20	Drilling holes, in plates upto 1/2" (13 mm) thick, per inch dia, (25mm) or part thereof.	Per Hole	47.30		Per Hole	47.30			
21	Extra for drilling holes in plates over 1/2" (13 mm) thick, per inch dia, (25 mm) or part thereof.	Per Hole	26.30		Per Hole	26.30			
22	Rivetting 1/8" dia (3 mm).	100 Nos	623.15		100 Nos	623.15			
23	Cutting out Rivets, all sizes.	100 Nos	1994.85		100 Nos	1994.85			
24	Fitting and erection of gutters of sheet iron.	Per Lft.	78.60		Metre	257.80			
25	Cutting and fixing iron bars, for barred windows.	Per bar	44.95		Per bar	44.95			
26	Cutting G.I. sheets.	Each Cut	24.55		Each Cut	24.55			
27	Notching web or foot of rail posts, for housing rail beams.	Per Notch	531.95	699.95	Per Notch	531.95	699.95		
28	Hoop iron netted trellis work fixed with nails.	Per Sft.	31.45		sq.m	338.60			
29	Fixing zinc iron or G.I. sheet on table tops.	Per Sft.	18.50		sq.m	199.20			
30	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	Per Sft.	193.70	702.50	sq.m	2084.30	7558.70		
31	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm)	Per Sft.	201.20	817.15	sq.m	2164.70	8792.55		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
	centre to centre, with locking arrangement.								
32	Making and fixing grating in opening, including fixing at site with flat iron 2"x3/8" (50x10 mm) and 3/4" (19 mm) square bars, at 4" (100 mm) centre to centre.	Per Sft.	77.50	337.10	sq.m	833.80	3627.00		
33	Providing and fixing stair railing (all types and designs) of hard wood, including bends and corners, screwed to 5/8"x5/8" (16x16 mm) M.S. square bars 2.75 ft. (838 mm) high, at 5.5 inch (137 mm) inch centre to centre, fixed in steps of stairs, M.S. flat 1"x1/8" (25x3 mm) welded to bars, painting/polishing 3 coats, etc. complete.	Per Rft.	378.25	829.80	Metre	1240.90	2722.50	The composite rate shall be reduced or increased by Rs. 31.90 for each foot of reduction or addition in the height of the square bars.	
34	Providing/fixing stair railing consisting of M.S. Box section size 1-1/2"x3" of 16 SWG welded with M.S. flat 1"x1/8" continuously and welded over M.S. square bars 5/8"x5/8" punched in M.S. flat 2 3/4" high @ 5 1/2" c/c fixed in steps of stair I/C painting 3 coats complete.	Per Rft.	194.85	535.35	Metre	639.25	1756.35		
35	Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8" x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	Per Rft.	140.80	563.75	Metre	461.94	1849.57	-do-	
36	Providing and fixing collapsible gate made of 2"x2"x1/4" (50x50x6 mm) tee iron at top and bottom, channel iron verticals 3/4"x1/4"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, handles 12" (300 mm) long of 3/4"x1/4"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order.	Per Sft.	283.75	685.10	sq.m	3053.35	7371.50		
37	Providing and fixing 24 SWG G.I. sheet rolling shutter, consisting of steel frame of M.S. channel 2"x1 1/4"x1/8" (50x30x3 mm), angle iron 1 1/2"x1 1/2"x1/8" (40x40x3 mm), M.S. plate 1"x1x1/8" (300x300x3 mm), G.I. pipe 1 1/2" (37 mm) dia, springs 2' (600 mm) centre to centre, rollers, 24 SWG G.I. covering 1 ft. x 1 ft. (300x300 mm), handles, holdfast, and painting three coats, complete in all respects.	Per Sft.	62.55	223.05	sq.m	672.90	2400.05		
38	Providing and fixing M.S. angle iron 1 1/2"x1 1/2"x1/4" (40x40x6 mm) edge protector nozing of steps of stairs, having holdfast or 3/8" (10 mm) dia M.S. bars 8" (200 mm) long welded at 2' (600 mm) centre to centre and embedded in cement concrete on steps, complete in all respects.	Per Rft.	29.55	137.40	Metre	96.90	450.85		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks	
		Unit	Labour	Composite	Unit	Labour	Composite			
39	Providing and fixing stair railing of 2½" (63 mm) i/d G.I. pipe, welded with 5/8"x5/8" (16x16 mm) square M.S. bars 2'-9" (838 mm) high, fixed in each step, complete in all respects, including painting, polishing three coats.	Per Rft.	166.50	667.50	Metre	546.25	2190.00		The composite rate shall be reduced or increased by Rs. 31.90 for each foot of reduction or addition in the height of the square bars.	
40	Providing and fixing G.I. wire gauze 24 SWG, 12x12 meshes per square inch, fixed to steel windows or doors, etc., complete in all respects.	Per Sft.	27.90	66.50	sq.m	300.15	715.80			
41	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-									For fixed pannels, the composite rate will be reduced by Rs.30.00 per Sft. or Rs. 305.00 per Sq. metre.
	a) without wire gauze:									
	i) glass pane 2 mm thick	Per Sft.	71.85	313.50	sq.m	772.85	3373.30			
	ii) glass pane 2.5 mm thick	ditto	71.85	316.00	ditto	772.85	3399.90			
	iii) glass pane 3 mm thick	ditto	71.85	319.70	ditto	772.85	3439.80			
	iv) glass pane 4 mm thick	ditto	71.85	325.85	ditto	772.85	3506.30			
	v) glass pane 5 mm thick	ditto	71.85	338.20	ditto	772.85	3639.30			
	b) fixed with wire gauze, 22 SWG									
	i) glass pane 2 mm thick	Per Sft.	101.05	380.95	sq.m	1087.45	4099.05			
	ii) glass pane 2.5 mm thick	ditto	101.05	383.45	ditto	1087.45	4125.65			
	iii) glass pane 3 mm thick	ditto	101.05	387.15	ditto	1087.45	4165.55			
	iv) glass pane 4 mm thick	ditto	101.05	393.30	ditto	1087.45	4232.05			
	v) glass pane 5 mm thick	ditto	101.05	405.65	ditto	1087.45	4365.05			
42	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1½"x1½" (40x40mm) for frame and 1¼"x1¼" (30x30mm) for leaves including M.S. square bars ¼"x¼" (6x6 mm) welded around each panel of frame, 5 mm thick glass panes fixed with double M.S. square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U' shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects.									
	a) For openable panels fixed with wire gauze 24 SWG, 12x12 mesh and glass panes ¼" (6 mm) thick.	Per Sft.	63.75	323.15	Sq.m	685.90	3477.25			
	b) For fixed panels without wire gauze.	ditto	61.65	202.10	ditto	663.40	2174.50			

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
43	Providing and fixing windows consisting of M.S. box section frame 2"x1½" (50x40mm), leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws I/C all C.P. fitting and painting 3 coats complete in all respect.	Per Sft.	73.80	402.85	Sq.m	794.30	4334.60		
44	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect.	Per Sft.	92.85	470.65	Per Sft.	999.10	5063.95		
45	Flapping G.I. pipes for bath room drains.	Each	627.65	667.20	Each	627.65	667.20		
46	Supply and fixing iron grating for fire place.	Per Sft.	120.50	225.60	sq.m	1296.75	2427.20		
47	Fixing copper flashing, including cutting of sheets, grooving and rivetting.	Per Lft.	52.45		Metre	172.05			
48	Providing and fixing angle iron railing, using 2½"x2½"x3/8" (63x63x10 mm) angle iron post 4½" (113 mm) long, 5' to 6' (1500 to 1800 mm) apart, with 2½"x2½"x3/8" (63x63x10 mm) angle iron top rail, and two rows of M.S. flat 2½"x¼" (63x6 mm) including fixing to side of Bridge/structure with U.bolt 1½" (450 mm) long ¾" (20 mm) dia, painting posts, etc. complete in all respects.	Per Rft.	88.00	741.00	Metre	288.80	2431.05		
49	Providing and fixing barbed wire fencing on compound wall, consisting of 1½"x1½"x3/16" (40x40x5 mm), angle iron post ¾ ft. (990 mm) long, 5 to 6 ft. (1500 to 1800 mm) centre to centre, embedded in cement concrete 1:4:8, base of size 9"x9"x12" (225x225x300 mm), and three rows of barbed wire, painting posts, etc. complete in all respects.	100Rft.	1926.05	9856.15	Metre	63.20	323.35		
50	Providing and fixing barbed wire fencing on compound	100Rft.	3165.90	12634.00	Metre	103.85	414.50		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
51	<p>wall, consisting of 1½"x1½"x3/16" (40x40x5mm) angle iron post 3' (900 mm) long, 4' (1200 mm) apart embedded in cement concrete 1:4:8 base of size 6"x6"x9" (150x150x225 mm) and 4 rows of barbed wire, including binding wire, painting posts, etc. complete in all respects.</p> <p>Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.</p>	Per Sft	102.35	539.65	sq. m	1101.30	5806.65	<p>(1) Increase rate by Rs. 40.00 per Sft or Rs.430.50 per Sq-metre if sections thickness is 2 mm.</p> <p>(2) Reduce rate by Rs.20.00 per Sft or Rs.215.20 per Sq-metre if sections are of dull aluminium shade.</p> <p>(3) Reduce rate by Rs.20.00 per Sft or Rs.215.20 per Sq-metre if local glass is used.</p>	
52	<p>Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.</p>	Per Sft	147.80	440.50	sq. m	1590.35	4739.80	<p>(1) Reduce rate by Rs.20.00 per Sft or Rs.215.20 per Sq-metre if section thickness is 1.2 mm.</p> <p>(2) Reduce rate by Rs.20.00 per Sft or Rs.215.20 per Sq-metre if sections are of dull aluminium shade.</p> <p>(3) Reduce rate by Rs.20.00 per Sft or Rs.215.20 per sq-metre if local glass is used.</p>	
53	<p>Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top &amp; bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc. complete in all respect.</p>								
	a) 1.6 mm thick	Per Sft	100.30	669.15	Sqm	1079.25	7200.05		
	b) 2 mm thick	Per Sft	100.30	755.55	Sqm	1079.25	8129.70		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
54	P/F MS box section of 16 SWG, having frames of 2" x 1-1/2", leave frame of T-type box section of 2" x 1" x 1", with 1/2" x 1/2" box section using, U shaped rubber for fixing 5 mm thick glass panes i/c the cost of fixing of 24 SWG wire guaze on inner side by means of 1/2" x 1/8" MS flat patti, MS grill fitted within the window frame and screws including hinges, brass handles and painting 3 coats. Complete in all respect	Per Sft	65.55	424.40	Sqm	705.55	4566.80		i. If Brass stays will be provided, rate of Rs.20/- P.Sft will be paid. ii. For fixed pannels without guaze, reduce rate of Rs.150/- P.Sft. Iii. If box sections of 18SWG used, reduce rate of Rs. 25/- P.Sft.



*Finance Department*



## 26. MISCELLANEOUS

Rates for all finished works include the removal of surplus debris, unused material and byproducts.

MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL Nowshehra, Soan Valley Khushab									
Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
1	Notice board made of cement, sand mortar 1:3.	Per Sft.	68.20	78.75	Per sq.m	733.95	847.45		The board is to be of cement plaster ½" (13 mm) thick, with 2" (50 mm) wide and 1" (25 mm) thick beading.
2	Fixing handles to iron hammers.	Each	87.20	-	Each	87.20	-		
3	Providing and fixing barbed wire fencing, with 4 horizontal and 2 number cross wires fixed with posts of R.C.C., 1:2:4 (straining posts 7"x9"x9" (2.13 mx225x225 mm) at 100' (30 m) centre to centre, stiffening posts 7"x6"x6" (2.13 mx150x150 mm) at 50 ft. (15 m) interval and intermediate post 7"x5"x5" (2.13 mx125x125 mm) at 8 ft.(2.4 m) centre to centre), including cost of steel, its fabrication and placing of steel reinforcement, eye bolts, washers, etc. complete.	100Lft.	7,160.90	24,656.60	L.m.	234.95	808.95		Vertical bars in straining and stiffening posts to be 4 No. each by ½" (13 mm) dia and for intermediate posts to be 4 No. of 3/8" (10 mm) dia Stirrups for all posts to be ¼" (6 mm) dia. at 12" (300 mm) centre to centre.
	<b>Surveying</b>								
4	Supplying Bamboo Jhandies 10' to 12' (3.00 to 3.65 m) with iron shoes, and flags 15" (375mm) square.	Each	42.70	172.50	Each	42.70	172.50		
5	Supplying wooden pegs for levelling, 1½" (40 mm) dia, 6" (150mm) long.	100Nos.	139.50	157.15	100Nos.	139.50	157.15		
6	Supplying wooden pegs for alignment, 2" to 3" dia (50 to 75 mm), 9" (225 mm) long.	100Nos.	334.75	538.70	100Nos.	334.75	538.70		
7	Fixing enamelled iron gauges flush with masonry, including cost of hooks.	Per Lft.	78.65	87.55	Per L.M.	258.10	287.30		
8	Placing boundary pillars in position, including digging pits.	Each	52.45	-	Each	52.45	-		
9	Fixing main line type distance mark in position, including making 1:3:6 cement concrete base block, size 14"x10"x15" (350x250x375 mm).	Each	231.00	408.70	Each	231.00	408.70		Composite rate does not include cost of iron distance marks.
	<b>Hand Pumps &amp; Pressure Pipes</b>								
10	Cutting pipes, upto 2" (50 mm) dia.	Per cut	52.45	-	Per cut	52.45	-		

**MRS, 1st BI-ANNUAL-2017 (1st January to 30th June) TEHSIL NOWSHEHRA, SOAN VALLEY KHUSHAB**

Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
11	Cutting pipe, above 2" (50 mm) dia.	Per cut	95.4	0	Per cut	95.4	0		
12	Threading pipe ends, 1½" (40 mm) to 4" (100 mm) dia.	Each End	66.40	-	Each End	66.40	-		
13	Assembling 1½" (40 mm) dia pressure pipe.	100Lft.	242.70	-	Per Metre	7.95	-		
14	Boring and fixing 1½" (40 mm) dia pressure pipe:								
	a) in ordinary soil	Per Lft.	85.35	-	Per Metre	280.10	-		
	b) in clay	Per Lft.	168.25	-	Per Metre	551.95	-		
	c) in shingle	Per Lft.	251.10	-	Per Metre	823.80	-		
15	Repairs to hand pump, pulling out and refitting.	Per Lft.	37.85	-	Per Metre	124.10	-		
16	Fixing hand pump (Machine only)	Each	167.40	-	Each	167.40	-		
	<b><u>Rest House Furniture &amp; Fuel, etc.</u></b>								
17	Washing Niwar of bed.	Per bed	552.40	583.55	Per bed	552.40	583.55		
18	Washing Durries.	100Sft.	736.55	810.70	sq.m	79.30	87.25		
19	Recaning chairs:								
	i) office chairs, single caning seat only.	Each	292.90	328.65	Each	292.90	328.65		
	ii) office chairs, double caning seat only.	Each	376.60	427.05	Each	376.60	427.05		
	iii) office chairs, single caning back only.	Each	209.20	211.50	Each	209.20	211.50		
	iv) office chairs, double caning back only.	Each	334.75	354.10	Each	334.75	354.10		
	v) easy chairs, single caning seat only.	Each	209.20	257.15	Each	209.20	257.15		
	vi) easy chairs, double caning seat only.	Each	585.80	657.25	Each	585.80	657.25		
	vii) easy chairs, single caning only, back and seat in one piece.	Each	836.90	1,131.05	Each	836.90	1,131.05		
	viii) easy chairs, double caning back & seat in one piece or couches with caned area about 16 Sft (1.5 Sqm).	Each	1,255.30	1,969.75	Each	1,255.30	1,969.75		
20	Making and fixing Hat pegs ordinary.	Each	150.65	514.00	Each	150.65	514.00		
21	Weaving charpoy.	Each	543.95	-	Each	543.95	-		
22	Sweeping chimney.	Each	122.75	124.05	Each	122.75	124.05		
23	Picture railing, including making, fixing and painting.	Per Lft.	43.10	120.05	Per LM	141.40	393.85		
24	Cutting fuel wood, from plantation.	100Kg	164.40	-	100Kg	164.40	-		
25	Splitting fuel wood.	100Kg	344.35	-	100Kg	344.35	-		

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Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
26	Burning charcoal, including loading, unloading and repairing kilns.	100Kg of Charcoal	557.05	-	100Kg of Charcoal	557.05	-		
27	Filling cement bags with coal and sewing (including cost of strings).	100Cft.	1,509.95	1,513.05	cu.m	533.30	534.40		
28	Supplying manure.	Cart Load	184.15	320.10	Cart Load	184.15	320.10	Capacity of cart, 20 Cft. (0.57 cu.m).	
29	Washing punkha frills.	Each	167.40	-	Each	167.40	-		
30	Washing:-								
	a) table cloth	Each	41.85	-	Each	41.85	-		
	b) napkins, dusters, etc.	Each	27.90	-	Each	27.90	-		
31	Hoisting and placing sleepers for centring, including carriage within one chain.	Each No.	65.70	-	Each No.	65.70	-		
32	Dismantling sleepers from centring, including stacking within one chain.	Each No.	74.90	-	Each No.	74.90	-		
33	Dredging Sumps.	Per Shift	2,762.10	-	Per Shift	2,762.10	-	Not less than five gangmen to be employed for each shift to ensure effective dredging.	
34	Fixing 'U' bolt in masonry or concrete, including levelling and tying for fixing angle iron post.	Each	200.85	-	Each	200.85	-		
35	Bailing out water:-								
	a) by hand	1000 Cft.	2,209.68	-	cu.m	78.05	-	Rate includes cost of providing pump, POL and operation charges, etc.	
	b) by pump	1000 Cft.	245.85	420.85	ditto	8.70	14.85		
36	Drilling holes in R.C. Trough.	Per Nos.	131.10	-	Per Nos.	131.10	-		
37	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.							The rate includes overlaps.	
	i) 300 gauge (.003" thick)	Per Sft.	1.25	2.85	sq.m	13.50	30.65		
	ii) 500 gauge (.005" thick)	Per Sft.	2.50	3.85	sq.m	27.00	41.40		
38	Laying 2" (50 mm) thick sand and bitumen carpet, on top of foundation of oil tank.	100Sft.	1,453.80	4,879.00	sq.m	156.45	525.00		
39	Cutting hole 4"x6" (100x150 mm) in stone masonry or brick wall with chisel, repairing masonry and removing debris within one chain lead.	Per Hole	224.80	-	Per Hole	224.80	-	Same rate to be paid for other type of masonry and R.C.C. work.	

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Sr. No.	Description	Rate (British System)			Rate (Metric System)			Spec. No.	Remarks
		Unit	Labour	Composite	Unit	Labour	Composite		
40	Making 1½"x1½" (40x40 mm) groove in wall of stone or brick masonry in cement for fixing planks upto 9" (225 mm) deep.	Per Plank	196.70	-	Per Plank	196.70	-		
41	Drilling holes in stone or brick masonry upto 2" (50 mm) dia, per inch (25 mm) depth.	Per hole per inch depth	73.65		Per hole per c.m depth	29.45			
42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	100Sft. of each spray	83.70	222.05	sq.m of each spray	9.00	23.90		
43	Providing and fixing barbed wire fencing, with 4 horizontal and two cross wires, with R.C.C. 1:2:4 posts, 5.5"x6"x9" (1.68mx150mmx225 mm) at 8 ft. (2.45 m) centre to centre, reinforced with 4 No. 3/8" (10 mm) dia vertical bars and 1/8" (3 mm) dia stirrups 12" (300 mm) centre to centre, complete in all respects.								
	i) without cement concrete base.	100Rft.	8,496.90	25,313.20	Per Metre	278.70	830.25		
	ii) in cement concrete 1:4:8 base of size 12"x12"x21" (300x300x525 mm).	100Rft.	9,346.75	27,799.55	Per Metre	306.55	911.85		

*Finance Department*