

# Soil Laboratory

## 1) Sub grade (Existing)

<u>Tests</u>	<u>Rs.</u>
Sieve Analysis -	690
Liquid limit -	750
Plastic Limit -	670
Proctor Density -	1490
CBR test -	3630
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	<b>7230</b>

## 2) Embankment filling

<u>Tests</u>	<u>Rs.</u>
Sieve Analysis -	690
Liquid limit -	750
Plastic Limit -	670
Proctor Density -	1490
CBR test -	3630
Free Swell Index -	1000
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	<b>8230</b>

## 3) Retaining wall filling

<u>Tests</u>	<u>Rs.</u>
Sieve Analysis -	690
Liquid limit -	750
Plastic Limit -	670
Proctor Density -	1490
CBR test -	3630
Free Swell Index -	1000
Direct Shear -	1310
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	<b>9540</b>

## Test Charges

### D) Soil

1) CBR - Existing Subgrade	7,230
2) CBR - Widening Subgrade	8,230
3) CBR - Filling Subgrade & Embankment	8,230
4) CBR - Filling between Retaining wall	9,540

### II) BBD

1) Per Km	5,860	(1640 + 2x2110)
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### III) Pile Load

1) Initial Pile load test	10,950
2) Routine Pile load test	10,950

### IV) Bore

1) Soil Sample	2,110
2) Rock Core Sample	1,060

### V) Concrete

1) Per Design Mix	19,700
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### VI) Steel

1) 8mm	2,550
2) 10mm	2,700
3) 12mm	2,700
4) 16mm	2,700
5) 20mm	3,000
6) 25mm	3,300
7) 28mm	3,300
8) 32mm	3,600

### VII) Bitumen

1) DBM	23,530
2) DBM using Modified Bitumen	29,900
3) BC	26,030
4) BC using Modified Bitumen	32,410
5) BC using Waste Plastic (with BC Mix)	12,711
6) BC using Waste Plastic (only)	38,740

Payment Mode : Demand Draft (DD)

In favour of : Deputy Director I Highways Research Station Chennai - 25