

TRANSPORTATION COST CALCULATION

Transportation cost = weight of materials x actual distance of work site from Aizawl x rate as specified below

Note= Average rate for the whole Mizoram is taken as Rs.3.34 per Quintal per

1. MAIN ROUTES

Sl. No.	Name of Route		Distance (in Km)	Rate (in Rs per Km/Quintal)
1	2		3	4
1	Tanhril	Lawngtlai	249	1.40
2	Tanhril	Kawlkulh	125	1.40
3	Tanhril	Lunglei	171	1.40
4	Tanhril	Hnahthial	172	1.40
5	Tanhril	Serchhip	112	1.40
6	Tanhril	Chhingchhip	88	1.40
7	Tanhril	Champhai	194	1.40
8	Tanhril	Khawzawl	155	1.40
9	Tanhril	Saitual	75	1.40
10	Tanhril	Aibawk	30	1.40
11	Tanhril	Zuangtui	17	1.40
12	Tanhril	Zawlnuam	176	1.40
13	Tanhril	Tuidam	139	1.40
14	Tanhril	Rengdil	159	1.40
15	Tanhril	Kawrtethawveng	148	1.40
16	Tanhril	Kawrthah	149	1.40
17	Bualpui	Zuangtui	60	1.40
18	Bualpui	Aibawk	90	1.40
19	Bualpui	Saitual	135	1.40
20	Bualpui	Champhai	254	1.40
21	Bualpui	Kawlkulh	185	1.40
22	Bualpui	Lunglei	231	1.40
23	Bualpui	Lawngtlai	309	1.40
24	Bualpui	Kolasib	24	1.40
25	Bualpui	Lungdai	32	1.40
26	Bualpui	Vairengte	68	1.40
27	Bualpui	Serchhip	172	1.40
28	Bualpui	Chhingchhip	142	1.40
29	Bualpui	Khawzawl	215	1.40
30	Bualpui	Kawnpui	14	1.40
31	Bualpui	Hnahthial	232	1.40
32	Rengtekawn	Lawngtlai	332	1.40
33	Rengtekawn	Champhai	278	1.40
34	Rengtekawn	Aizawl	84	1.40
35	Rengtekawn	Lunglei	255	1.40
36	Rengtekawn	Hnahthial	255	1.40
37	Rengtekawn	Serchhip	198	1.40
38	Rengtekawn	Chhingchhip	166	1.40
39	Rengtekawn	Khawzawl	239	1.40
40	Rengtekawn	Kawlkulh	209	1.40
41	Rengtekawn	Saitual	158	1.40
42	Rengtekawn	Aibawk	113	1.40

43	Rengtekawn	Kolasib	4	1.40
44	Rengtekawn	Kawnpui	29	1.40
45	Rengtekawn	Lungdai	56	1.40
46	Lunglei	Lunglei	1	1.40
47	Lunglei	Lawngtlai	80	1.40
48	Silchar	Zawnuam	115	1.40
49	Silchar	Vairengte	43	1.40
50	FSD Lawngtlai	Lawngtlai PDC	4	1.40
51	Aibawk	Thenzawl	61	1.40
52	Tanhriil	Thenzawl	91	1.40
53	Tanhriil	W.Phaileng	101	1.40
54	Tanhriil	Lallen	116	1.40
55	Tanhriil	Phuldungsei	145	1.40
56	Tanhriil	Pukzing	156	1.40
57	Tanhriil	Marpara	184	1.40
58	Tanhriil	Tuipuibari	169	1.40
59	Tanhriil	Mamit	108	1.40

2. DISTRICT ROUTES

(i) District Route-I (D-I) : This route will cover routes plying on National Highways, State Highways and District Roads.

(ii) District Route-II (D-II) : This route will cover routes plying on District Roads, Other District Roads and Village Roads.

(iii) District Route-III (D-III) : This route will cover routes plying on Other District Roads and Village Roads.

2.1 District Route-I (D-I)

Sl. No.	Name of Route		Distance (in Km)	Rate (in Rs per Km/Quintal)
1	2		3	4
Saiha District				
1	Saiha	Bualpui (Ng)	18	1.57
2	Lawngtlai	Saiha	75	1.57
3	Lawngtlai	Kawlchaw	32	1.57
4	Lawngtlai	Maubawk	53	1.57
5	Lawngtlai	Tuipang	80	1.57
Lawngtlai District				
6	Lawngtlai	Bungtlang	81	1.57
7	Lawngtlai	Vaseikai	130	1.57
8	Lawngtlai	Diltlang	58	1.57
Lunglei District				
9	Hnahthial	S.Vanlaiphai	52	1.57
10	Hnahthial	Sangau	63	1.57
11	Lunglei	Tawipui 'S'	48	1.57
12	Lunglei	Haulawng	38	1.57
13	Lunglei	Mualthuam 'N'	46	1.57
14	Lunglei	Tlabung	97	1.57
15	Lunglei	Chawngte	100	1.57
16	Lunglei	Lungsen	58	1.57
17	Lunglei	Tuichawng	77	1.57
Champhai District				
18	Champhai	Khuangleng	41	1.57
19	Champhai	Kelkang	23	1.57

20	Champhai	Dungtlang	65	1.57
21	Champhai	Farkawn	100	1.57
22	Champhai	Vaphai	84	1.57
23	Champhai	Khawbung	72	1.57
24	Khawzawl	Biате	60	1.57
25	Khawzawl	Khawhai	35	1.57
26	Khawzawl	Sialhawk	48	1.57
27	Kawlkulh	Ngopa	57	1.57
28	Kawlkulh	Hliappui	21	1.57
Aizawl West District				
29	Aibawk	Hmuifang	25	1.57
30	Aibawk	Sialsuk	36	1.57
Aizawl East District				
31	Saitual	Phullen	54	1.57
32	Aizawl	Khawruhlian	87	1.57
33	Aizawl	Darlawn	121	1.57
34	Aizawl	Ratu	140	1.57
35	Aizawl	N.Vervek	151	1.57
36	Aizawl	Sakawrdai	168	1.57
37	Aizawl	Suangpuilawn	140	1.57
38	Aizawl	Vanbawng	155	1.57
Mamit District				
39	Zuangtui	Mamit	108	1.57
40	Zuangtui	Lallen	116	1.57
41	Zuangtui	W.Phaileng	101	1.57
42	Zuangtui	Phuldungsei	145	1.57
43	Zuangtui	Pukzing	162	1.57
44	Zuangtui	Marpara	184	1.57
45	Zuangtui	Tuipuibari	169	1.57
Serchhip District				
46	Serchhip	Khawlailung	34	1.57
47	Serchhip	N.Vanlaiphai	59	1.57
48	Serchhip	E.Lungdar	60	1.57
49	Serchhip	Cherhlun	79	1.57
50	Serchhip	Thingsai	95	1.57
51	Serchhip	Thenzawl	30	1.57
Kolasib District				
52	Kolasib	Bairabi	34	1.57

2.2. District Route-II (D-II)

Sl. No.	Name of Route		Distance (in Km)	Rate (in Rs per Km/Quintal)
1	2		3	4
Saiha District				
53	Saiha	Lungpher	30	3.87
54	Saiha	Niawhtlang	31	3.87
55	Saiha	Phalhrang	29	3.87
56	Tuipang	Laki	37	3.87
57	Tuipang	Vahai	45	3.87
58	Saiha	Vawmbuk	36	3.87
59	Saiha	Siata	65	3.87
60	Saiha	Chakhang	78	3.87
61	Kawlchaw	Phura	52	3.87

62	Kawlchaw	Serkawr	12	3.87
63	Tuipang	Zaawngling	14	3.87
64	Tuipang	Tuisih	22	3.87
Lawngtlai District				
65	Vaseikai	Damdep	30	3.87
Lunglei District				
66	Hnahthial	Tarpho	30	3.87
67	Tlanbung	Borapansury	37	3.87
68	Sangau	Lungtian	45	3.87
69	Lunglei	Putlungasih	59	3.87
Champhai District				
70	Champhai	Bungzung	70	3.87
71	Champhai	Hnanhlan	64	3.87
72	Khawzawl	Rabung	45	3.87
73	Ngopa	N.E.Khawdungsei	15	3.87
74	Ngopa	Mimbung	51	3.87
75	Ngopa	Teikhang	42	3.87
Aizawl West District				
76	Aizawl	Khawrihnim	48	3.87
77	Aizawl	Reiek	27	3.87
78	Aizawl	Kanghmun	60	3.87
Aizawl East District				
79	Sakawrdai	Zohmun	14	3.87
Mamit District				
80	Zawnuam	Kanhmun	18	3.87
81	Zawnuam	Rengdil	17	3.87
82	Zawnuam	Tuidam	37	3.87
83	Zawnuam	Kawrtethawveng	47	3.87
84	Zawnuam	Kawrthah	29	3.87
Serchhip District				
85	Thenzawl	Chhipphir	32	3.87
86	Thenzawl	Thenhlum	83	3.87
87	Thenzawl	Buarpui	45	3.87
88	Thenzawl	Bunghmun	105	3.87
Kolasib District				
89	Vairengte	Saipum	68	3.87
90	Vairengte	Saiphai	47	3.87
91	Kolasib	Hortoki	45	3.87
92	Lungdai	N.Hlimen	78	3.87
93	Lungdai	Bukpui	40	3.87

2.3. District Route-III(D-III)

Sl. No.	Name of Route		Distance (in Km)	Rate (in Rs per Km/Quintal)
1	2		3	4
Saiha District				
1	Saiha	Chhualung	45	6.50
2	Kalchaw	Tongkolong	62	6.50
3	Kawlchaw	Lungpuk	83	6.50
4	Tuipang	Chapui	52	6.50
Lawngtlai District				
5	Bungtlang	Tuithumhnar	25	6.50
6	Bungtlang	Vathuampui	46	6.50

Champhai District				
7	Kawlkulh	Lungpho	55	6.50
8	Ngopa	Kawlbem	28	6.50
Aizawl West District				
9	Aibawk	Darlung	28	6.50
Aizawl East District				
10	Phullen	Khawlian	38	6.50
11	Phullen	Phuaibuang	27	6.50

APPROXIMATE WEIGHT OF MATERIALS

Sl. No.	Name of Materials	Unit	Weight per Unit (Kg)
1	SP-58	No.	186.00
2	SP-35	No.	129.00
3	SP-29	No.	125.00
4	SP-17	No.	89.00
5	25kVA DT	No.	240.00
6	63kVA DT	No.	510.00
7	100kVA DT	No.	605.00
8	250kVA DT	No.	1,470.00
9	500kVA DT	No.	1,900.00
10	630kVA DT	No.	2,125.00
11	750kVA DT	No.	2,600.00
12	1000kVA DT	No.	3,780.00
13	MS Channel 100 x 50 x 6mm	Mtr.	9.56
14	MS Channel 75 x 40 x 6mm	Mtr.	7.14
15	Angle Iron 40 x 40 x 6mm	Mtr.	4.50
16	Flat Iron 40 x 6mm	Mtr.	1.80
17	Racoon Conductor	Km.	320.00
18	Weasel Conductor	Km.	128.00
19	Grasshopper Conductor	Km.	231.60
20	Ant Conductor	Km.	145.50
21	Gnat Conductor	Km.	73.80
22	Disc Insulator 70 kN	No.	7.00
23	Disc Insulator 45 kN	No.	6.00
24	Tension Clamp with hardware strain fittings 4-bolt (for Racoon)	Set	3.00
25	Tension Clamp with hardware strain fittings 3-bolt (for Weasel)	Set	2.00
26	Stay Set 19mm (40x40x8mm)	Set	6.50
27	Stay Set 19mm (30x30x8mm)	Set	5.70
28	Stay Set 16mm (30x30x8mm)	Set	4.90
29	GI Wire 8 SWG	Mtr.	2.00
30	Stay Wire 7/10 SWG	Mtr.	0.52
31	Stay Wire 7/12 SWG	Mtr.	0.34
32	Stay Wire 7/14 SWG	Mtr.	0.20
33	1.1kV XLPE insulated Aerial Bunched Cables, 3x120sq.mm with 16sq.mm street light and XLPE insulated	Mtr.	2.089

34	1.1kV XLPE insulated Aerial Bunched Cables, 3x70sq.mm with 16sq.mm street light and XLPE insulated	Mtr.	1.36
35	1.1kV XLPE insulated Aerial Bunched Cables, 3x95sq.mm with 16sq.mm street light and XLPE insulated	Mtr.	1.60
36	11kV XLPE insulated Aerial Bunched Cables size 3x70sq.mm + 1x55sq.mm	Mtr.	5.55
37	11kV XLPE insulated Aerial Bunched Cables size 3x95sq.mm + 1x70sq.mm	Mtr.	7.10

Note: The above indicated weights are approximate and shall vary depending upon the manufacturers. Weights which are not included above may be taken as

APPROXIMATE WEIGHTS PER KILOMETRE OF DISTRIBUTION LINES EXCLUDING CEMENT, RIVER SAND AND STONE AGGREGATE

Sl. No.	Name of Lines	Unit	Total Weight (Kg)
1	33kV Line	Km.	6,511.71
2	11kV Line	Km.	5,059.43
3	LT (1-phase, 3-wire) Steel Tubular Pole	Km.	5,788.18
4	LT (1-phase, 3-wire) Pre-stressed	Km.	24,738.25
5	LT (3-phase, 5-wire) Steel Tubular Pole	Km.	6,443.39
6	LT (3-phase, 5-wire) Pre-stressed	Km.	25,597.95

APPROXIMATE WEIGHTS PER DISTRIBUTION TRANSFORMER WITH

Sl. No.	Name of Lines	Unit	Total Weight (Kg)
1	25kVA	No.	1,238.73
2	63kVA	No.	1,522.98
3	100kVA	No.	1,632.98
4	250kVA	No.	2,400.77
5	500kVA	No.	3,073.58
6	630kVA	No.	3,437.33
7	750kVA	No.	3,912.33
8	1000kVA	No.	5,231.08