

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

CHECK LIST SERIAL NUMBER:-17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme Compensatory Afforestation Estimate diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Details of degraded forest land:- BML RD 370-376 B/s

District :Patiala Village : BML RD 370-376 B/s Tehsil: Samana

Name of Forest Division: Patiala Forest Range: Samana

Block No./Compartment No./Survey No BML RD 370-376 B/s

Area:- 0.1 Ha.

Area to be afforested:- 0.1 Ha. Plantation will be planted BML RD 370-376 B/s

2. Description of Area:-

- i. Whether the site selected for Compensatory Afforestation is a land bank or not:-
_____ Yes
- ii. If the CA site is other than the land bank, reasons be given:-Land bank.
- iii. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- N.A.
- iv. Soil type:-Heavy
- v. Topography:- a. Plain
b. Slope:-Gentle
- vi. Whether the area is bearing any root stock of vegetation: Scattered .

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed.

Divisional Forest Office
Patiala Forest Division
Patiala

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.
Proposal No. : FP/PB/Approach/151976/2022

4. **Schedule of Plantation Programme:-**

Detail of year wise break-up of requirements of funds is as under:-

0 th year	0.100	238711.30	23871.13
1 st Year	0.100	95961.50	9596.15
2nd Year	0.100	59779.20	5977.92
3 rd Year	0.100	67067.10	6706.71
4 th Year	0.100	65171.90	6517.19
5 th Year	0.100	7608.70	760.87
6th Year	0.100	7608.70	760.87
7th Year	0.100	7608.70	760.87
8th Year	0.100	7608.70	760.87
9th Year	0.100	7608.70	760.87
10th Year	0.100	7608.70	760.87
Supervision Charge	0.100	85853.3	8585.33
		658196.5	65820

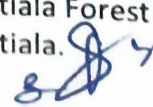
5. **Technical Details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details :-
- Spacement :- 3 x 3 mtr.
- Species :- Shisham, Arjun , Dreka etc..
- plantation Method :-Pit & Trenches
- Soil and Moisture Conservation Works :-
- Protection (Fencing, Watch man , People's Participation etc.):Fencing, Watch Man
- Proposed Monitoring Mechanism :-Internal
- Any other information :-

Place:Patiala

Date:


VidhyaSagari R.U. ,IFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala. 

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

Wage Rate : 418.06					
Plantation Model For Standard Plantation under Compensatory Afforestation					
Plants Per Hectare : 1000 Nos.					
Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
Nursery					
	Nursery cost of raising plants	1100	1100	25.443	28044.0
A	Soil Work				
1	Site / Jungle Clearance (50%)	1 Ha.	0.5	6840.94	3420.5
2	Alignment & Dagbaling	1 Ha.	1	1254.23	1254.2
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	129.2	12921.1
5	Kana Stubbing 25%	1 Ha.	0.25	34204.47	8551.1
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	3501.23	2625.9
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	701.064	7711.1
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	250.802	2759.2
4	i) Carriage from site to site	100 No.	1000	167.201	1672.2
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1254.24	12541.8
5	Spot Irrigation (1000 Plants)	100 No.	1000	261.252	2612.9
6	Application of Insecticide (2 Times)	100 No.	2000	52.2504	1045.1
7	Application of Fertilizers (2 Times)	100 No.	2000	52.2504	1045.1
8	Weeding & Hoeing 3 Times	100 No.	3000	455.714	13670.5
9	Hand Watering (12 Times)	100 No.	12000	261.252	31354.6
10	Replanting of Plants 10%	100 No.	100	738.094	738.1
11	Rejungle Clearance (2 Times) 50%	Per Ha.	1	3030.98	3031.0
12	Covering (25% plants) of plants	100 No.	250	376.203	940.6
13	Uncovering of plants	100 No.	250	41.8003	104.5

Divisional Forest Office
Patiala Forest Division
Patiala

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

14	Restubbing of Kana (1 Time) 25%		0.25	34204.8	8551.2
15	Laying out & fixing of Barbed Wire	L/s		0	10033.4
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10869.6	7608.7
17	Material				0.0
	i) Insecticides / Fertilizers	L/s			6372.9
	ii) POL	L/s			6372.9
	iii) Barbed Wire	L/s			63728.7
	Sub Total				238711.3
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	25.4437	7648.4
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	75.9903	1710.1
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	34.9851	788.0
4	Loading & Unloading of Plants	1 No.	330	3.18046	1034.7
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	330	250.12	825.2
6	Spreading of plants pit to pit	100 No.	300	167.201	501.7
7	Re-Planting to plants	100 No.	300	419.48	1258.3
8	Spot Irrigation	100 No.	300	261.252	783.9
9	Weeding & Hoeing (Three)	100 No.	3000	455.714	13670.5
10	Application of Insecticide (2 Times)	100 No.	2000	52.2504	1045.1
11	Application of Fertilizers (2 Times)	100 No.	2000	52.2504	1045.1
12	Hand Watering (6 Times)	100 No.	6000	455.714	27341.2
13	Rejungle Clearance (2 Times) 50%	Per Ha.	1	3030.98	3031.0
14	Restubbing of Kana	Per Ha.	0.25	34204.5	8551.1
15	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
16	Repair of Barbed Wire	L/s			6372.8
17	POL & Machinery	L/s			6372.8
18	Material and Supply	L/s			6372.8
	Sub Total				95961.5
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	25.4437	3824.2

Divisional Forest Office
Patiala Forest Division
Patiala

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

2	Reopening of Pits 150 x 0.50 x 0.50 x 0.40	1 m3	15	75.9903	1140.1
3	Refilling of pits with earth in other soils 150 x 0.50 x 0.50 x 0.30	1 m3	11.25	34.9851	393.9
4	Loading & Unloading of Plants	1 No.	165	3.18046	517.4
5	Carriage of Plants (150+10% Wastage = 165 avg. distance upto 10 Km.)	100 No.	165	250.12	412.7
6	Spreading of plants pit to pit	100 No.	150	167.201	250.8
7	Re-Planting to plants	100 No.	150	292.034	438.0
8	Spot Irrigation	100 No.	150	261.252	391.9
9	Weeding & Hoeing (Twice)	100 No.	2000	455.714	9113.7
10	Hand Watering (5 Times)	100 No.	5000	261.252	13064.4
11	Rejungle Clearance (2 Times) 50%	Per Ha.	1	3030.98	3031.0
12	Pruning to Plants	100 No.	100	493.993	494.0
13	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	10869.6	7608.7
14	Repair of Barbed Wire	L/s		6372.85	6372.8
15	POL & Machinery	L/s		6372.85	6372.8
18	Material and Supply	L/s		6372.85	6372.8
	Sub Total				59799.2
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	25.4437	2549.5
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	7600.28	760.0
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	34.9851	262.6
4	Loading & Unloading of Plants	1 No.	110	3.18046	344.9
5	Carriage of Plants (100+10% Wastage = 110 avg. distance upto 10 Km.)	100 No.	110	1.24947	140.8
6	Spreading of plants pit to pit	100 No.	100	167.201	167.2
7	Re-Planting to plants	100 No.	100	292.034	292.0
8	Spot Irrigation	100 No.	100	261.252	261.3
9	Weeding & Hoeing (thrice)	100 No.	3000	455.714	13670.5
10	Hand Watering (8 Times)	100 No.	8000	261.252	20903.0
11	Pruning to Plants 20%	100 No.	200	493.993	988.1
12	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	10869.6	7608.7

Divisional Forest Office
Patiala Forest Division
Patiala

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

13	Repair of Barbed Wire	L/s		6372.85	6372.8
14	POL & Machinery	L/s		6372.85	6372.8
15	Material and Supply	L/s		6372.85	6372.8
	Sub Total				67067.1
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	25.4437	1274.7
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	7600.28	380.1
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	34.9851	131.3
4	Loading & Unloading of Plants	1 No.	55	3.18046	172.4
5	Carriage of Plants (50+10% Wastage = 55 avg. distance upto 10 Km.)	100 No.	55	1.24947	70.4
6	Spreading of plants pit to pit	100 No.	50	167.201	83.6
7	Re-Planting to plants	100 No.	50	292.034	146.0
8	Spot Irrigation	100 No.	50	261.252	130.6
9	Weeding & Hoeing (thrice)	100 No.	3000	455.714	13670.5
10	Hand Watering (8 Times)	100 No.	8000	261.252003803831	20903.0
11	Pruning to Plants 30%	100 No.	300	493.993	1482.1
12	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	10869.6	7608.7
13	Repair of Barbed Wire	L/s		6372.85	6372.8
14	POL & Machinery	L/s		6372.85	6372.8
15	Material and Supply	L/s		6372.85	6372.8
	Sub Total				65171.9
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
	Sub Total				
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
	Sub Total				
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
	Sub Total				

Divisional Forest Office
Patiala Forest Division
Patiala

Full Title of the Projects:- Diversion of 0.0244 ha of forest land permission for construction of approach Access CNG Station of IRM Energy Private Limited at (Sirhind-Chunni Road KM 1 to 2 R/s) Vill: Attewali Tehsil & Distt: Fatehgarh Sahib.

Proposal No. : FP/PB/Approach/151976/2022

8th Year Maintenance					
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
Sub Total					
9th Year Maintenance					
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
Sub Total					
10th Year Maintenance					
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	10869.6	7608.7
Sub Total					
Total					572363.2
Over Head expenses 5%					28617.8
Wage Enhancement @ 10%					57235.5
G. Total					658216.5
Or Say					6,58,217/-
Cost of Compensatory Afforestation for 100 plants x 658217/- Rs Per Ha./1000					65,822/-

Place:Patiala
Date:

VidhyaSagari R.U. ,IFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala.