Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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CHECK LIST SERIAL NUMBER:-17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme Compensatory Afforestation Esttimate for Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

Details of degraded forest land:- L.M Ghaggar Bandh Rd 0-18 B/S ,

District Patiala Village : . L.M Ghaggar Bandh Rd 0-18 B/S ,

Tehsil: Rajpura

Name of Forest Division: Patiala Forest Range Rajpura.

Block No./Compartment No./Survey No. L.M Ghaggar Bandh Rd 0-18 B/S Area:- 0.407 Ha.

Area to be afforested:-0.407 Ha. Plantation will be planted on . L.M Ghaggar Bandh Rd 0-18 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.

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

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

0th year	0.407	186465.05	75891.27535
1st Year	0.407	73045.06	29729.33942
2nd Year	0.407	45880.96	18673.55072
3rd Year	0.407	42683.63	17372.23741
4th Year	0.407	39565.59	16103.19513
5th Year	0.407	5969.6	2429.6272
6th Year	0.407	5969.6	2429.6272
7th Year	0.407	5969.6	2429.6272

Divisional Forest Officer,
Patiala Forest Division,
PATIALA

20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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8th Year	0.407	5969.6	2429.6272
9th Year	0.407	5969.6	2429.6272
10th Year	0.407	5969.6	2429.6272
Supervision Charge	0.407	63518.68	25852.10276
		486976.57	**198199.464**

5. Technical Details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

a) General Details :-

b) Spacement :- 3 x 3 mtr.

c) Species :- Euc. Kikar ,Shisham Muscat, Arjun ,Neem,Jamun, Euc.,Mulb. etc.

d) plantation Method :-Pit & Trenches

e) Soil and Moisture Conservation Works :-

f) Protection (Fencing, Watch man , People's Participation etc.):Fencing, Watch Man

g) Proposed Monitoring Mechanism :-Internal

h) Any other information :-

Date: 20 SEP 2017
Place: Patiala

Ajit Kulkarni,IFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala.

20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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CHECK LIST SERIAL NUMBER:-17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme Compensatory Afforestation Esttimate for Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

Details of degraded forest land:- L.M Ghaggar Bandh Rd 0-18 B/S ,

District Patiala Village : . L.M Ghaggar Bandh Rd 0-18 B/S ,

Tehsil: Rajpura

Name of Forest Division: Patiala Forest Range Rajpura.

Block No./Compartment No./Survey No. L.M Ghaggar Bandh Rd 0-18 B/S Area:- 0.6 Ha.

Area to be afforested:-0.6 Ha. Plantation will be planted on . L.M Ghaggar Bandh Rd 0-18 B/S

2.**Description of Area:-**

vii. Whether the site selected for Compensatory Afforestation is a land bank or not:-_____Yes

viii. If the CA site is other than the land bank, reasons be given:-Land bank.

ix. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- N.A.

x. Soil type:-Heavy

xi. Topography:- a. Plain

b. Slope:-Gentle

xii. 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.

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

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

0th year	0.6	111626.16	66975.696
1st Year	0.6	67793.27	40675.962
2nd Year	0.6	45835.35	27501.21
3rd Year	0.6	41768.97	25061.382
4th Year	0.6	29644.21	17786.526
Supervision Charge	0.6	41533.52	24920.112
		338201.48	**202920.888**
		600 X 676	**405600**

Divisional Forest Officer,
Patiala Forest Division,
PATIALA

20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

5. Technical Details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

i) General Details :-

j) Spacement :- 3 x 3 mtr.

k) Species :- Euc. Kikar ,Shisham Muscat, Arjun ,Neem,Jamun, Euc.,Mulb. etc.

l) plantation Method :-Pit & Trenches

m) Soil and Moisture Conservation Works :-

n) Protection (Fencing, Watch man , People's Participation etc.):Fencing, Watch Man

o) Proposed Monitoring Mechanism :-Internal

p) Any other information :-

Date: 20 SEP 2017
Place: Patiala

Ajit Kulkarni,IFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala.

20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

Wage Rate : Rs. 328

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	20.00	22000.00
A	**Soil Work**				
1	Site / Jungle Clearance (25%)	Ha.	0.5	5367.22	2683.61
2	Alignment & Dagbaling	Ha.	1	984.00	984.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	101.38	10138.00
5	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B	**Plantation Work**				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2747.00	2060.25
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	550.00	6050.00
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	196.80	2164.80
4	i) Carriage from site to site	100 No.	1000	131.20	1312.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	984.00	9840.00
5	Spot Irrigation (1000 Plants)	100 No.	1000	205.00	2050.00
6	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
7	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
8	Weeding & Hoeing 3 Times	100 No.	3000	357.52	10725.60
9	Hand Watering (12 Times)	100 No.	12000	205.00	24600.00
10	Replanting of Plants 10%	100 No.	100	579.11	579.11
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Covering (25% plants) of plants	100 No.	250	295.20	738.00
13	Uncovering of plants	100 No.	250	32.80	82.00
14	Restubbing of Kana (1 Time)		0.25	26836.30	6709.08
15	Laying out & fixing of Barbed Wire	L/s			7872.00
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	8528.00	5969.60
17	Material				
	i) Insecticides / Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire	L/s			50000.00
	Sub Total				**186465.05**
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	59.63	1341.68
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	27.47	618.08

Divisional Forest Officer,
Patiala Forest Division,
PATIALA 20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	165	131.20	216.48
7	Re-Planting to plants	100 No.	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (Three)	100 No.	3000	357.52	10725.60
10	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
11	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
12	Hand Watering (6 Times)	100 No.	6000	357.52	21451.20
13	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8528.00	5969.60
16	Repair of Barbed Wire	L/s			5000.00
17	POL & Machinary	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				**73045.06**
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	20.00	3000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63	644.00
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	27.47	296.68
4	Loading & Unloading of Plants	1 No.	75	2.46	184.50
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	75	131.20	98.40
7	Re-Planting to plants	100 No.	75	229.09	171.82
8	Spot Irrigation	100 No.	75	205.00	153.75
9	Weeding & Hoeing (Twice)	100 No.	2000	357.52	7150.40
10	Hand Watering (5 Times)	100 No.	5000	205.00	10250.00
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Pruning to Plants	100 No.	100	387.61	387.61
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
14	Repair of Barbed Wire	L/s			5000.00
15	POL & Machinary	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				**45880.96**
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	20.00	2000.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	5963.00	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	27.47	197.78
4	Loading & Unloading of Plants	1 No.	100	2.46	246.00

Divisional Forest Officer,
Patiala Forest Division,
PATIALA
2 09 FEB 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.00	100.00
6	Spreading of plants pit to pit	100 No.	100	131.20	131.20
7	Re-Planting to plants	100 No.	100	229.09	229.09
8	Spot Irrigation	100 No.	100	205.00	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 Times)	100 No.	5000	205.00	10250.00
11	Pruning to Plants 20%	100 No.	200	387.61	775.22
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinary	L/s			5000.00
15	Material and Supply	L/s			5000.00
	Sub Total				**42683.63**
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	20.00	1000.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	27.47	197.78
4	Loading & Unloading of Plants	1 No.	50	2.46	123.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.00	50.00
6	Spreading of plants pit to pit	100 No.	50	131.20	65.60
7	Re-Planting to plants	100 No.	50	229.09	114.54
8	Spot Irrigation	100 No.	50	205.00	102.50
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 Times)	100 No.	4000	205.00	8200.00
11	Pruning to Plants 30%	100 No.	300	387.61	1162.83
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinary	L/s			5000.00
15	Material and Supply	L/s			5000.00
	Sub Total				**39565.59**
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	7th Year Maintenance				

Divisional Forest Officer,
Patiala Forest Division,
PATIALA 20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				**5969.60**
	Total				**423457.89**
	Over Head expenses 5%				**21172.89**
	Wage Enhancement @ 10%				**42345.79**
	G. Total				**486976.58**
	Or Say				486977

Cost of Compensatory Afforestation per Ha. For 7-10 Year

Rs. 486977 per Ha.= 0.1627x 2500 = 407 x $\frac{486977}{1000}$ = 198200/-

Net Present Value per Ha. @ Rs. 887000 X 0.1627 = 144315/-

Ajit Kulkarni, IFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala.

20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

	Estimate for planting of Tall plants				**Rate= 328**
	Name of Work	**Unit**	**Unit Cost (In Rs.)**	**Qty**	**Total Amt**
	Nursery				
	Cost of Tall plants	1 No	60	550	33000.00
	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	5367.22	0.5	2683.61
2	Alignment & Dagbailing	Ha.	984	1	984.00
3	Earth Work- Digging of Pits 500x 0.6m x0.6m x0.5m Heavy Soil	$1M^3$	101.38	90	9124.20
4	Kana Stubbing 25%	Ha.	26836.3	0.25	6709.08
	Planting				
1	Refilling of Pits	100 cum	2747	72	1977.84
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	246	550	1353.00
3	Carriage of Plants (500+10% Wastage=550 avg. distance upto 10 km.)500 Trolly	100 No	196.8	1	196.80
4	i) Carriage from site to site	100 No	131.2	550	721.60
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	984	550	5412.00
5	Spot Irrigation (500 Plants)	100 No	205	500	1025.00
6	Application of Insecticide (2 times)	100 No	41	1000	410.00
7	Application of Fertilizers (2 times)	100 No	41	1000	410.00
8	Weeding & Hoeing 3 times	100 No	357.52	1500	5362.80
9	Hand Water 6 months x 2 times =12 times	100 No	205	6000	12300.00
10	Replanting of Plants 10%	100 No	579.11	50	289.56
11	Rejungle Clearance (2 times)	Per Ha.	2378	1	2378.00
12	Covering (25% plants) of plants	100 No	295.2	125	369.00
13	Uncovering of plants	100 No	32.8	125	41.00
14	Restubbing of Kana (1 time)	Ha.	26836.3	0.25	6709.08
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	8528	1Man 7 Month	5969.60

Divisional Forest Officer,
Patiala Forest Division,
PATIALA
28 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
				Sub Total	**111626.16**
			Maintenance I Year		
1	Cost of plants for 30% replacement	1 No.	60	150	9000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	59.63	21.6	1288.01
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	27.47	21.6	593.35
4	Loading & Unloading of Plants	1 No.	2.46	150	369.00
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	165	216.48
7	Re-planting Tall Plants	100 No	329.08	165	542.98
8	Spot Irrigation	100 No.	205	165	338.25
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	App. Of Fertilizer (two times)	100 No	41	1000	410.00
11	App. Of Insecticide (two times)	100 No	41	1000	410.00
12	Hand watering 6 months x 2 times =12 times	100 No	357.52	6000	21451.20
13	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
14	Restubbing of Kana	Ha.	26836	0.25	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	8528	1/10 Man yr.	8528.00
16	POL	L/s			5000.00
17	Material and supply	L/s			5000.00
				Sub Total	**67793.27**
			Maintenance II Year		
1	Cost of plants for 15% replacement	No.	60	75	4500.00
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	59.63	10.8	644.00
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	27.47	10.8	296.68
4	Loading & Unloading of Plants	1 No.	2.46	75	184.50

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5	Carriage of Plants = 75 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	75	98.40
7	Re-planting to tall plants	100 No	229.08	75	171.81
8	Spot Irrigation	100 No.	205	75	153.75
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Hand Watering 10 Times	100 No	205	5000	10250.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	**45835.35**
		Maintenance III Year			
1	Cost of plants for 10% replacement	1 No.	60	50	3000.00
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	5963	7.2	429.34
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	27.47	7.2	197.78
4	Loading & Unloading of Plants	1 No.	2.46	50	123.00
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	50	65.60
7	Re-planting to plants	100 No	229.08	50	114.54
8	Spot Irrigation	100 No.	205	50	102.50
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	Hand Watering (8 times)	100 No	205	4000	8200.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants 20%	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	**41768.97**

Divisional Forest Officer,
Patiala Forest Division,
PATIALA
20 SEP 2017

Full Title of the Projects:- Diversion of 0.1627 of forest land in favour of IRM Energy Pvt Ltd for permission for Laying 6" dia steel and 125" dia PE Gas Pipe line to develop City Gas distribution network in Mandi Gobindgarh and its Surrounding area in Fatehgarh Sahib District under forest division Patiala, Punjab.

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Maintenance IV Year					
1	Cost of plants for 5% replacement	1 No.	60	25	1500.00
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m3	59.63	3.6	214.67
3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m3	27.47	3.6	98.89
4	Loading & Unloading of Plants	1 No.	2.46	25	61.50
5	Carriage of Plants = 25 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	25	32.80
7	Re-planting to plants	100 No	229.08	25	57.27
8	Spot Irrigation	100 No.	205	25	51.25
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
11	Pruning to plants 30%	100 No.	387.61	300	1162.83
12	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	**29644.21**
				TOTAL	**296667.96**
	Over Head expenses 5%				**14833.40**
	Enhancement due to wage escalation @9%				**26700.12**
				G.Total	**338201.47**
				Or Say	**338201**
Note	The watch and ward in subsequent years will carry out the necessary operations of Pruning				
	Total Cost per plant (in Rs)	**676**			
	Compensatry Afforestation of Tall Plants	300 Plants x 2 =600 Plants X 676			405600/-

Divisional Forest Officer,
Patiala Forest Division,
Patiala. 20 SEP 2017