

**Compensatory afforestation Scheme in respect of Construction of Sevoke-Rangpo New BG Rail Line for diversion of 0.9294 ha of forest land falling within Kurseong Forest Division.**

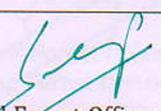
1	<b>Introduction:</b> General Manager, IRCON International Ltd, Siliguri came with a proposal for the construction of Sevoke – Rangpo Railway line .The Diversion of total forest land involved within Kurseong Forest Division comes to 0.9294 ha. The proposed compensatory afforestation is over double the degraded forest land i.e. on 1.86 ha to make good the loss of forest area involved at the same time to maintain the ecological balance in the area.			
2	<b>Site for compensatory afforestation:</b> The location selected for compensatory afforestation in degraded in Kurseong Forest Division is as follows:			
	Sl.No.	Block/Comptt.	Area in Ha	Range
	1.	Dhobijhora	1.86 ha	Kurseong
3	<b>Methodology of work execution:</b> Compensatory Afforestation scheme would be implemented on line of Integrated Afforestation Programme (IAP) or Joint Forest Management (JFM) with activities like soil & moisture conservation works, monitoring & evaluation along with the maintenance of plantation for a period of five years including barbed wire fencing for the protection of plantation. For the support activity of the poor people involved in JFM includes Infrastructure development like drinking water, patrolling path, culverts, payment of damage by elephants etc.			
4	<b>Block Plantation:</b> An integrated approach with soil & moisture conservation work in compact area as per location specified above is proposed as per working plan prescription. The spacing will be 2.5m x 2.5m that is 1600 seedlings/ha with pit size of 45 cm x 45cm.			
5	<b>Fencing &amp; Protection:</b> The area proposed for CA shall be fenced with barbed wire to minimize the biotic interference for the better survival and establishment of plantation. Also watch and ward may be done in addition to whole time deployment of forest staff.			
6	<b>Seedling requirement:</b> The seedling requirement will be met from the existing nurseries of this Division on payment basis as per the approved rate.			
7	<b>Choice of Species:</b> The species will be native broad leaved, site specific & as per working plan prescription. The list of species to be planted are give below:			
	<b>Scientific name</b>		<b>Vernacular name</b>	
	<i>Amoora wallichii</i>		Lali	
	<i>Duabanga sonneratioides</i>		Lampate	
	<i>Spondius axillaris</i>		Lapsi	
	<i>Artocarpus chapbasha</i>		Lathar or Lattar	
	<i>Eriobotrya bengalensis</i>		Maya	
	<i>erminalia crenulata</i>		Pakasaj	
	<i>Terminalia myriocarpa</i>		Panisaj	
	<i>Zanthoxylum budrunga</i>		Timur	
	<i>Symingftonia populnea</i>		Pipli	
	<i>Alnus nepalensis</i>		Utish	
	<i>Cedrela toona</i>		Tun or Toon	
	<i>Juglans regia</i>		Okhar	
	<i>Garcinia cowa</i>		Kafal	
8	<b>Soil &amp; moisture conservation:</b> The soil & moisture conservation work will be approximately 50% of the total area of compensatory afforestation. Light engineering following by vegetative measures will be taken up.			
9	<b>JFM Support activity:</b> Support activity like Infrastructure development may be taken up in the forest fringe FPC villages.			
10	<b>Executing agency:</b> The work will be executed with the involvement of respective FPC members of this Division and will be done as per Working Plan prescription under the direct supervision of Forest (Conservation) Act 1980 cell.			
11	<b>Time Schedule:</b> The work will be executed as per sanction of the proposal & availability of fund from the user agency.			
12	<b>Monitoring &amp; evaluation:</b> The monitoring & evaluation of the work shall be done by the Monitoring Division of the Forest Directorate, Govt. of West Bengal & Ministry of Forest & Environment, Regional Office, GOI.			

  
 Divisional Forest Officer  
 Kurseong Forest Division

**Scheme for Compensatory Afforestation (CA) in respect of Kurseong Forest Division for Diversion of Forest Land for construction of Sevoke-Rangpo New Broad Gauge Railway Line.**

<b>Cost Structure</b>				
		<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1.	Plantation :			
	i) Advance Work @ 11321/ha	1.86	11321	21057.06
	ii) Creation Work @ 35362/ha	1.86	35362	65773.32
	<b>Sub Total</b>			<b>86830.38</b>
2.	Maintenance :			
	1 <sup>st</sup> . Year @ 11524/ha	1.86	11524	21434.64
	2 <sup>nd</sup> . Year @ 7613/ha	1.86	7613	14160.18
	3 <sup>rd</sup> . Year @ 5403/ha	1.86	5403	10049.58
	4 <sup>th</sup> . Year @ 3684/ha	1.86	3684	6852.24
	5 <sup>th</sup> . Year @ 3684/ha	1.86	3684	6852.24
	6 <sup>th</sup> . Year @ 2947/ha	1.86	2947	5481.42
	7 <sup>th</sup> . Year @ 2707/ha	1.86	2707	5035.02
	8 <sup>th</sup> . Year @ 2456/ha	1.86	2456	4568.16
	9 <sup>th</sup> . Year @ 1965/ha	1.86	1965	3654.90
	10 <sup>th</sup> . Year @ 1719/ha	1.86	1719	3197.34
	<b>Sub Total</b>			<b>81285.72</b>
	<b>Total</b>	<b>1.86</b>		<b>168116.10</b>
	20% increment in Wage Rate			33623.22
3	Fencing/Protection etc. cost for 1.86 ha			95000.00
	Total for 1.86 Ha @ Rs. 10960/ha			20385.60
	Development/Improvement of Central Nursery.			150000.00
	<b>Total Cost for 1.86 ha</b>			<b>467124.90</b>
i)	Soil & Moisture Cons. Work (50%)			233562.45
ii)	JFM Support Activity (50%)			233562.45
iii).	Cost of Extraction of Marked trees (timber) 29.391 x @ 3800/m <sup>3</sup>			111685.80
	20% variation on extraction of timber volume to compensate exact volume for standing volume			22337.16
iv).	Cost of Extraction of poles (200 nos.) including head loading, transportation cost etc. 200 nos. x @ 300/pole			60000.00
v).	Cost of Extraction of bamboo (400 nos.) including head loading, transportation cost etc. 400 nos. x @ 50/bamboo			20000.00
vi).	Monitoring & Evaluation (5%)			23356.24
vii)	Over Head (2%)			9342.49
viii).	Contingency (5%)			23356.24
ix).	Protection of Area from Fire Damage: 50 md/ha x 1.86 ha. = 93 md @ 244.00/md			22692.00
x).	Engagement of labour for watch & ward of plantation :- 2 person/month x 12 months x 5 yrs @ 10000.00			1200000.00
xi).	Repairing of patrolling path roads for monitoring/supervising plantation and carriage of seedlings etc 1 Km x @ 6,50,000			650000.00
xii).	Purchase of patrolling vehicle for field inspection, monitoring & supervision of plantation and timber operations 1 nos. x @ 10,00,000.00			1000000.00
xiii).	Motorcycle for survey & monitoring 1 nos. @1,00,000			100000.00
xiv)	Monitoring & Survey Equipments with Computer & peripherals			
	c) GPS 2 nos. @ 52000			104000.00
	d) Computer & peripherals 1 units @ 97500			
xv).	Supply of fuel for vehicle during monitoring and supervision of plantation and timber operation 200 lts/month for 5 years			12000.00
	<b>Grand Total</b>			<b>4293019.73</b>
	<b>Or say</b>			<b>4293020.00</b>

**(Rupees Forty Two Lakh Ninety Three Thousand Twenty) only**

  
 Divisional Forest Officer  
 Kurseong Forest Division