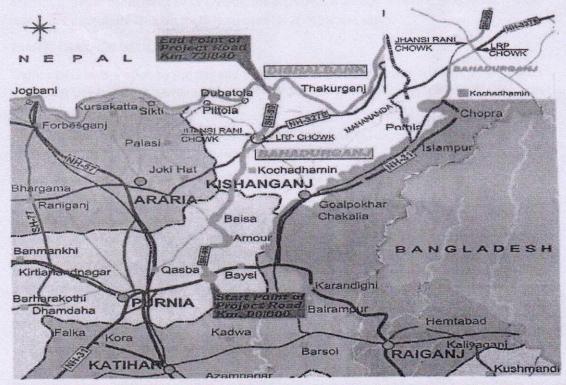
# Tree Translocation Scheme (Tree Protection Plan)

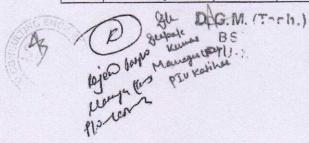
#### **Brief Summary of Project**

<u>Project Details:</u> - Preparation of Detailed Project Report for Widening/upgradation of existing single/intermediate lane to 2-lanes with earthen shoulders/ paved shoulder of Baysi-Bahadurganj-Dighalbank section of SH 99 (Kishanganj P.F. section Existing chainage-32+035 to 45+280 Km) from Km 0/000 to Km 73/840 under Purnia and Kishanganj Districts in the State of Bihar.

**Section-Kishanganj P.Fdivision (Existing Chainage-32+035 to 45+280)** The project road of this section is a part of SH-99 starting from Katamatha to Sonthapunas in Kishanganj District in the state of Bihar for Project overview.



S.No	Project Road	Length	Traverse District	Lat/Long(Starting)	Lat/Long(Ending)
1	Katamatha to Sonthapunas	Km	Kishanganj	26° 6'3.98"N 87°44'32.48"E	26°12'19.46"N 87°46'43.21"E



The proposed project road in this section starts at village Katamatha and at design chainage 32+035 where it follows SH-99 and travels 13.245 Km and passes through villages of Kishanganj district directly or indirectly. The proposed road is passing through Kochadhaman tehsil in Kishanganj District.

#### BYPASS/REALIGNMENT-

The approved alignment of Kishanganj PF section (Existing Chainage-32+035 to 45+280) is a part of Byasi-Bahadurganj-Dighalbank strengthening and widening project which is initiating near Katamatha and terminating near Sonthapunas village in this stretch. As per the details from BSRDCL, this road has ROW of 24 m. Overall, the alignment is already revised due to avoiding some productive agriculture land, so there is no need for realignment again.

#### TRAFFIC CHARACTERISTICS-

Traffic varies by the hour, by the day and by the month. Hence it is essential to provide a factor which provides relationship between Average Annual Daily Traffic and Average Daily Traffic of the month corresponding to the traffic survey.

As per the vide circular letter no. RW/NH-33044/37/2015/S&R (R) dated 26<sup>TH</sup> 2016 the MORT& H revised upgradation to 4-lane in plain terrain with Traffic as 10,000 PCU/day.

The Average Annual Daily Traffic (AADT) is 10266 in the year 2021 and the project PCU will be more. So, the project stretch qualifies for 2-lane.

#### **DETAILS OF AFFECTED TREES:**

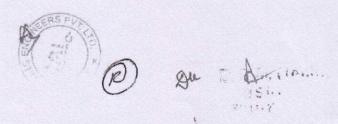
The entire linear stretch of roadside plantation along highway is declared as protected forest. About nearly 1090 no. of trees have been affected within the PROW of the entire project section from Katamatha to Sonthapunas (Existing Chainage 32+035 to 45+280). 572 trees are proposed to be translocated and remaining 518 trees need to be felled. List of trees (572) need to be translocated are also attached.

#### 1. Detail of Land identified for translocation of Trees

- Name of District of Identified Land:
- Location of Identified Land for Translocation of Trees:

Kishanganj

Rest land for Avenue plantation both the sides of Proposed ROW (toward 12m from existing centreline) of entire project section of



Name of the forest division:

No. of Trees for Translocation:

Kishanganj district (Design chainage 32+035 to 45+015).
Araria Forest Division
572

# Calculation of Identified Land

Required area for 01 tree= 3mx3m= 9m²

Therefore, required area for 572 trees= 572x9= 5148 m² (0.5 Hectare)

Required length for translocation of trees with available width 3 m= 1.716 Km

Existin	ng Km	Des Chai	-	Leng th (Km)	Cross Secti on	Remarks	Balan ce width (m)	Width		Area(sq.
From	To	From	To		Туре		L/R	(L+R)	Length	m)
33/3 40	33/8 05	33+0 50	33+5. 40	0.49	TCS-	Flexible Pavement	5.50	, 11	490	5390
33/8 05	34/2 55	33+5 40	33+9 90	0.45	TCS-	Rigid Pavement	5.50	11	450	4950
39/4 50	39/7 50	39+1 50	39+5 50	0.4	TCS- 5	Rigid Pavement	5.50	11	400	4400
42/7 60	43/3	42+4 90	43+0 40	0.55	TCS- 5	Rigid Pavement	5.50	11	550	6050
					Total A	Area				20790

Available length for Translocation of Trees= (20790/3= 6930m) 6.930 Km

No. of trees which can be accommodated= 2310

5

D. G.M. (Tech BSRDCL PIU-Kali

### **Methodology for Trees Translocation**

Translocation is the term used to describe the digging and replanting of trees from one location to a new location. Due to wide extent and morphology of tree root system, translocation of trees usually involves substantial removal of roots.

#### **Design and Documentation**

It is ensured that the requirements such as timing of root pruning, size of root ball, translocate and lifting requirement, monitoring and post translocation maintenance, etc. shall be properly planned.

**Safety precautions**- Tree Translocation, like other tree management works, would be conducted in a controlled and safe manner. Workers who shall involve in translocate trees will be given adequate instruction and supervision to ensure that the tasks are completed in a safe manner.

#### **Translocation operations**

**Tools and equipment-** All tools and equipment shall be appropriate to the operations and prepared in advance. Digging and root pruning tools shall be sharp and clean in order to cut without breaking, crushing or tearing roots. Mechanical digging and root pruning equipment shall be operated according to manufacturers' recommendations to minimize root damage.

Lifting cables, chains, straps and/or slings shall be inspected and used according to manufacturers' instructions and specifications.

**Preparation of root ball-** Root pruning is sometimes required before translocating a tree. Sufficient time shall be allowed between preparation and final lifting for development of new roots capable of sustaining and continuing the growth of the translocated tree.

The root system of a woodland or open-grown tree will normally be widespread. Lifting such trees without initial preparation of a root ball will result in much of root system being left in the soil. After translocation, the tree crown may then die back, or the tree may not be able to recover and will die eventually.

The root ball size would be of a diameter and depth to encompass enough of the root system as necessary for establishment. Normally the diameter of a root ball is larger than its depth which seldom exceeds1 meter.

**Pre-lifting operations:** - Tree lifting operations shall be carefully timed so as to enable direct delivery to the receptor site. No translocation operations would commence until either the receptor site or the holding nursery is fully prepared. Tree uplifted must be translocated and watered the same day. Watering before lifting is recommended.

Before uplifting, the outer edge of the previously dug trenches shall be loosened from the surrounding soil, and the root ball can be shaped with taper on the sides, slanting inward toward

the base. The first cut around the perimeter of the root ball should be made with a sharp tool. Cuts should be clean to avoid tearing or breaking the roots. The shaping and final cuts should be clean to avoid tearing or breaking the roots. The shaping and final cuts should be done by hand.

Temporary support of trees before lifting- A tree after pruning shall not be having extensive root support during the interim of the translocate process. It may be vulnerable to inclement weather such as typhoon or heavy rainfall.

Removal of the root system may sometimes aggravate the natural form and balance of a tree is likely to be jeopardized, a temporary support, such as guying or simple prop is essential.

Lifting and handling of root-balled trees- The root ball would be properly wrapped before lifting. Lifting shall be done by direct lift, with padded protection for the tree, using a machine of appropriate capacity connected to the support around the root ball, not to any other part of the trees. Trees shall not be lifted by the trunk as this can cause serious trunk injury but by its root ball which shall be properly prepared and wrapped. Root balls that are not properly protected would easily collapse during transplanting due to its own weight.

**Post-planting Care-** In case of translocation of trees within the project site amidst the construction activities, they will be well protected with robust fencing.

All newly translocated trees shall receive proper maintenance care in order to facilitate recovery of tree from the translocation shock. It would be ensuring the tree shall be stable before its root system is fully recovered to gain support.

The stress of a tree shall be observed immediately after translocation or gradually after a period of time. Proper care after transplanting will help to assure survival and minimize stress and ensure a higher successful rate. Maintenance of translocate trees will be in continuation till one year.

Annexure: - 1. Summary of Trees which needs to be translocated

Undertaking to bear the amount of translocation and translocation shall be done by User Agency

3. Geo-referenced Map of identified Land to translocate the trees (572 No.)

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# Detailed Summary of Trees for Widening and Strengthening of SH-99 from Existing Chainage Km 32+035 to 45+280 (Kishanganj P.F. section)

From kn	1 32+035 to k	m 45+280	
Affected Trees/Plants	Left Side	Right Side	Total Trees / Plants (Both side)
Kishanganj District	522	568	1090

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Detailed Summary of Trees for widening and strengthening of SH-99 Km 32+035 to 45+280 (Kishanganj P.F. Section)

(A) Detailed summary of affected plants (Both side) for Translocation Section-Kishanganj P.F. (Existing Chainage32+035 to 45+280)

Girth Size(cm)	Left	Right	Total (Both Side)	Remarks			
0-30	41	62	103				
31-60	105	136	241	Need to be			
61-90	108	120	228	Translocated			
Total	254	318	572				

(B) Detailed summary of affected plants (Both side) for Felling Section-Kishanganj P.F.

(Existing Chainage 32+035 to 45+280)

Girth Size(cm)	Left	Right	Total (Both Side)	Remarks
91-120	124	140	264	
121-150	87	69		Need to be
>150	57	41	98	felled
Total	268	250	518	

Abstract
Existing Chainage From Km 32+035 to 45+280

	Abstract		
From	km 32+035 to km 45	+280	
Affected Trees/Plants	Left Side	Right Side	Total Trees / Plants (Both side)
(A) Translocation Plants	25'4	319	572
(B) Felling Plan	268	250	518
Total Trees	522	568	1090





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# Effected Tree Details for Translocation in Kishanganj Division SH-99 (Existing Chainage 32+035 to 45+280)

### (District-Kishanganj) Kishanganj P.F. Section

# Existing Chainage From 32+035 Km to 45+280 Km

Tree List S	ummary of Kisanganj km	32+03	5 to km	45+28	0			
Scientific name	Species Name	Left	Right	Left	Right	Left	Right	Grand Total
Suentinichame	Species Name	0-3	0(cm)	31-6	0(cm)	61-9	0(cm)	IUCAI
Mangifera indica	Aam	10	13	12	19	5	9	68
Acacia	Akesia	2	0	2	0	0	0	4
Albizia	Albijia	0	0	0	0	0	0	0
Cassia fistula	Amaltas	0	0	0	1	0	0	1
Psidium	Amrud	0	0	0	3	0	0	3
Terminalia arjuna	Arjun	0	2	2	1	6	3	14
Saraca asoca	Ashok	0	0	0	0	1	0	1
Vachellia nilotica	Babool	0	0	1	0	1	0	2
Ziziphus mauritiana	Bair	2	1	6	7	4	2	22
Melia azedarach	Bakain	0	0	4	1	0	0	5
Ficus benghalensis	Bargad	0	0	0	1	0	. 0	1
Other	Bhadar	1	0	0	1	0	0	2
Senna siamea	Chakundi	0	0	0	0	7	8	15
Manilkara zapota	Chikoo	0	0	1	0	0	0	1
Eucalyptus	Eucalyptus	0	0	2	1	0	3	6.
Hibiscus	Gulhad	0	0	1	0	0	0	1
Delonix regia	Gulmohar	0	0	2	1	0	1	4
Tamarindus indica	Imli	0	0	0	0	0	0	0
Lagerstromia speciosa	Jahrul	0	0	0	1	0	0	1
Pithecellobium dulce	Jalebi	0	0	3	2	0	0	5
Syzygium cumini	Jamun	0	2	0	0	1	1	4
Other	Jeeyal	2	2	6	14	1	3	28
Rattlepods	Junjuna	0	0	0	1	1	0	2
Neolamarckia cadamba	Kadam	0	1	7	8	4	3	23
Indigofera suffruticosa	Kanil	0	0	3	0	0	0	3
Artocarpus heterophyllus	Kathal	0	0	1	3	3	0	7
Phoenix dactylifera	Khajur	0	0	0	0	1	. 2	3



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	Total	41	62	105	136	108	120	572
Other	Lakdi	0	0	0	0	0	1	1
Acacia catechu	Khair	0	0	1	0	1	1	3
Borassus flabellifer	Tad	0	0	0	0	4	0	4
Areca catechu	Supari	0	1	0	0	0	0	1
Albizia lebbeck	Siris	0	1	1	2	8	8	20
Bombax ceiba	Semal	0	3	2	6	2	8	21
Dalbergia sissoo	Seesam	0	0	1	0	1	0	2
Annona reticulata	Sarifa	1	1	0	0	0	0	2
Tectona grandis	Sagwan	0	0	0	1	0	0	1
Moringa oleifera	Saajan	0	0	1	0	1	0	2
Other .	Phul Gamhar	0	0	0	0	1	0	1
Ficus religiosa	Peepal	0	0	0	0	0	0	0
Gmelina arborea	Pani Gamhar	23	33	42	59	53	64	274
Citrus limon	Nimbu	0	2	2	1	0	0	5
Azadirachta indica	Neem	0	0	1	0	1	0	2
Cocos nucifera	Nariyal	0	0	0	0	1	3	4
Swietenia	Mahogani	0	0	1	2	0	0	3

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BSRDC:

Project Title: Widening/upgradation of existing single/intermediate lane to 2-lanes with earthen shoulders/ paved shoulder of Baysi-Bahadurganj-Dighalbank section of SH 99 (Kishanganj P.F. section-32+035 to 45+280 Km) from Km 0/000 to Km 73/840 under Purnia and Kishanganj Districts in the State of Bihar.

# UNDERTAKING TO TRANSLOCATE AFFECTED TREES WITHIN PROPOSED RIGHT OF WAY

I, D.G.M (Tech.) undersigned that on behalf of Bihar State Road Development Corporation Limited, PIU-Katihar, Bihar, ensuring affected trees (572 nos.) (which are decided by concerned Forest Department) shall be translocated on both the sides of proposed ROW after stage-1 clearance with all safety measures to remain its safety from machineries and raw material at the construction phase. The affected plants shall be translocated according to a detailed scheme for suitable trees prepared in consultation with the state Forest Department and the cost for the same shall be borne by User Agency.

User Agency also undertakes to continue to maintain such trees for a period of one year from transportation.

Date:

You're sincerely

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Fest Land for Avenue Plantation (mater)	C.Som	***	CLSM.	G.Som	81
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Drain Drain	1504	1.60		一日 一	
Hest Land For Amenus Plantathor (moter)	850m		0.50m	wos o	
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D.G.M. (Tech.)
BSRDCL
PIU-Katihar

THE REAL PROPERTY.	Tree List Summa Species Name	0-30						
	Aam	26	31-60	61-90	91-120	121-150	>150	Grand Tota
	Aamda	0	68	65	25	17 '	26	222
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acacia	20	0	0	0	0	1	1
	Amaltash	The same of the same of the same of	27	4	1	0	1	53
0.0,010	Amrood	1 1	1	0	1	1	2	6
ala arjuna	Arjun	0	1	0	0	0	0	1
======================================	Ashok	6	14	13	0	0	0	33
		3	8	3	4	0	3	21
Welia azedarach	Bahoor	1	0	0	0	0	2	3
The state of the s	Bakain	8	39	40	5	0	0	92
Kigelia africana	Balamkhera	0	0	1	1	0	0	2
Prosopis juliflora	Ballori	5	6	13	2	0	0	26
Ficus benghalensis	Bargad	0	0	0	0	0	2	2
Aegle marmelos	Bel	2	4	5	1	3	2	17
Ziziphus mauritiana	Ber	13	27	15	8	1	0	64
Senna siamea	Chakundi	0	0	1	0	0	0	1
Alstonia scholaris	Chhatwan	0	2	2	3	2	0	9
Madhuca longifolia	Dahua	2	4	7	2	0	0	15
Eucalyptus globulus	Eucalyptus	22	47	15	7	10	26	127
Gmelina arborea	Pani Gamhar	90	212	185	201	121	111	920
Gambhari arborea	Phool Gamhar	0	1	0	0	0	0	1
Ficus racemosa	Gular	3	26	13	4	3	2	51
Delonix regia	Gulmohar	22	32	15	9	1	2	81
Pithecellobium dulce	Jalebi	7	18	4	12	2	4	47
Syzygium cumini	Jamun	3	1	3	0	0	2	9
Lagerstromia speciosa	Jarhul	0	1	0	0	0	0	1
Crotalaria	Jhunjhuna	2	7	1	0	0	0	10
Putrajiva	Jiyal	0	0	1	0	0	0	1
Other	Jugni	0	3	2	0	0	0	5
Bauhinia variegata	Kachnar	0	1	111	1	0	0	3
Neolamarckia cadamba	Kadam	20	72	184	235	71	20	602
Millettia pinnata	Karanj	22	42	12	0	0	1	77
Cassia occidentalis	Kasmar	23	90	53	10	0	0	176
Artocarpus heterophyllus	s Lan Kathal	11	13	12	9	2	6	53
Cordia dichotoma	Lathora	0	0	0	1	0	0	1 1
Litchi chinensis	Lichi	5	6	0	0	0	0	11
Calotropis gigantea	Madar	0	9	3	5	0	1	267
Swietenia mahagoni	Mahogani	41	76	121	27	1	4	46
Azadirachta indica	Neem	6	17	10	8	1 1	0	20
Citrus limon	Nimbu	7	7	3	3	0	8	11
Ficus religiosa	Pipal	0	0	1	1	1 1	0	1
Hevea brasiliensis	Rubber	0	1	0	0	0 0	0	3
Hevea Drusillerisis	Sagwan	0	1	2	0	0	0	3
Tectona grandis	Sarifa	0	3	0	0	0	0	1
Annona reticulata	Saur	0	1	0	20	34	74	154
Betula alnoides	Semal	3	12	11	14	18	20	63
Bombax ceiba	Shisham	3	4	31	47	38	19	162
Dalbergia sissoo	Siris	14	13	1	0	0	0	52
Albizia lebbeck	Supari	7	0	3	2	2	0	7.
Areca catechu	Tad	0	0	0	0	1	2	3
parassus flabellifer	Emli	0	961	860	669	325	342	3555
Tamarindus indica	Total	398	901					

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क्रि. ७५. १०८ ८ वर्षः प्राच्या प्रशिक्षकारी DE SOLOTED

	Tree Type							Grand
Scientific name		0-30	31-60	61-90	91-120	121-150	>150	Total
Mangifera indica	Aam	23	31	14	7	`5	18	98
cacia	Akesia	2	2	0	0	0	0	4
Albizia	Albijia	0	0	0	0	0	1	1
Cassia fistula	Amaltas	0	1	0	0	0	0	1
Psidium	Amrud	0	3	0	Ö	0	0	3
Terminalia arjuna	Arjun	2	3	9	38	7	14	73
Saraca asoca	Ashok	0	0	1	0	0	0	1
/achellia nilotica	Babool	0	2	3	3	0	0	8
Ziziphus mauritiana	Bair	3	13	6	2	0	0	24
Melia azedarach	Bakain	0	5	0	0	0	0	5
Ficus benghalensis	Bargad	0	2	0	0	0	1	3
Other	Bhadar	1	0	0	0	0	0	1
Senna siamea	Chakundi	0	0	15	21	9	0	45
Manilkara zapota	Chikoo	0	1	1	0	0	0	2
	Eucalyptus	0	3	3	0	1	0	7
Eucalyptus Hibiscus	Gulhad	0	1	0	0	0	0	1
	Gulmohar	0	3	1	3	1	0	8
Delonix regia	Imli	0	0	0	Ó	0	1	1
Tamarindus indica Lagerstromia speciosa	Jahrul	0	1	0	0	0	0	1
Pithecellobium dulce	Jalebi	0	5	0	1	1	2	9
	Jamun	2	0	2	3	0	0	7
Syzygium cumini	Jeeyal	4	20	4	0	0	0	28
Other		0	1	1	0	0	0	2
Rattlepods	Junjuna	1	14	7	1	1	2	26
Neolamarckia cadamba	Kadam	0	3	0	0	0	0	3
Indigofera suffruticosa		0	4	3	3	0	0	10
Artocarpus heterophyllus	Kathal	0	0	3	1	0	0	4
Phoenix dactylifera	Khajur	0	3	0	0	0	0	3
Swietenia	Mahogani	.0	0	4	4	0	0	8
Cocos nucifera	Nariyal	0	1	1/	0	2	1	5
Azadirachta indica	Neem	2	3	0	0	0	0	5
Citrus limon	Nimbu Pani Camba	56	101	117	109	63	26	472
Gmelina arborea	Pani Gamha		0	0	0	0	4	4
Ficus religiosa	Peepal Phyl Camba	0	0	1	0	0	0	1
Other	Phul Gamha		1	1	0	0	0	2
Moringa oleifera	Saajan	0	1 1	0	0	0	0	1
Tectona grandis	Sagwan	0	0	0	0	0	0	2
Annona reticulata	Sarifa	2		1	4	1	2	9
Dalbergia sissoo	Seesam	0	1 0	_	18	17	5	61
Bombax ceiba	Semal	3	8	10	45	48	21	134
Albizia lebbeck	Siris	1	3	16	0	0	0	1
Areca catechu	Supari	1	0	0	1	1	0	6
Borassus flabellifer	Tad	103	240	228	264	157	98	109

Tree List Summary of Kisanganj km 32+035 to km 45+280

Aam         Logo         31-60         61-90         91-120         121-150         >150         Tot           Akesia         10         13         12         19         5         9         5         2         3         2         14         3           Akesia         2         0         2         0 </th <th>Aeresia 2 1 1 1 1 1 1 2 1 2 1 3 1 3 1 4 3 1 4 4 4 4 4 4 4 4 4 4 4 4</th> <th></th> <th></th> <th>Left</th> <th>Left Right</th> <th>Left</th> <th>Right</th> <th>Left</th> <th>Left Right</th> <th>Left</th> <th>Left Right</th> <th>Left</th> <th>Left Right</th> <th>Left</th> <th>Left Right</th> <th>Grand</th>	Aeresia 2 1 1 1 1 1 1 2 1 2 1 3 1 3 1 4 3 1 4 4 4 4 4 4 4 4 4 4 4 4			Left	Left Right	Left	Right	Left	Left Right	Grand						
Aam         10         13         12         19         5         2         2         2         14         3           Akesia         2         0         2         0         <	am         10         13         12         19         5         9         5         2         3         2         14         3           Akesia         2         0         2         0 <t< th=""><th></th><th></th><th>Ö</th><th>2</th><th>31</th><th>09</th><th>61.</th><th>90</th><th>91</th><th>.120</th><th>121</th><th>150</th><th>7</th><th>20</th><th>Total</th></t<>			Ö	2	31	09	61.	90	91	.120	121	150	7	20	Total
Akesia         2         0 <th>Akesia         2         0         2         0<th></th><th>am</th><th>10</th><th>13</th><th>12</th><th>19</th><th>5</th><th>6</th><th>2</th><th></th><th>m</th><th>2</th><th>14</th><th></th><th>97</th></th>	Akesia         2         0         2         0 <th></th> <th>am</th> <th>10</th> <th>13</th> <th>12</th> <th>19</th> <th>5</th> <th>6</th> <th>2</th> <th></th> <th>m</th> <th>2</th> <th>14</th> <th></th> <th>97</th>		am	10	13	12	19	5	6	2		m	2	14		97
fistula         Amaltas         0         <	Amaltas 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		kesia	2	0	2	0	0	0	0		0	0	0	0	4
Amaltas         0 </td <td>Amaltas         0<!--</td--><td></td><td>Ibijia</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>1</td><td>0</td><td></td></td>	Amaltas         0 </td <td></td> <td>Ibijia</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td></td>		Ibijia	0	0	0	0	0	0	0		0	0	1	0	
juna         Amrud         0<	Amrud         0 <td></td> <td>maltas</td> <td>0</td> <td>0</td> <td>0</td> <td>П</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>And the second second second</td>		maltas	0	0	0	П	0	0	0		0	0	0	0	And the second second second
Arjun         O         2         2         1         6         3         18         20         3         4         6         9           Ashok         O <td< td=""><td>no         Arjun         0         2         2         1         6         3         18         20         3         4         6         9           acodombo         Ashok         0</td><td></td><td>mrud</td><td>0</td><td>0</td><td>0</td><td>3</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td></td<>	no         Arjun         0         2         2         1         6         3         18         20         3         4         6         9           acodombo         Ashok         0		mrud	0	0	0	3	0	0	0		0	0	0	0	3
Ashok         0 <td>care         Ashok         0         0         0         1         0&lt;</td> <td></td> <td>rjun</td> <td>0</td> <td>2</td> <td>2</td> <td>H</td> <td>9</td> <td>3</td> <td>18</td> <td></td> <td>3</td> <td>4</td> <td>9</td> <td>0</td> <td>74</td>	care         Ashok         0         0         0         1         0<		rjun	0	2	2	H	9	3	18		3	4	9	0	74
Babool         0         0         1         0         1         2         0 <td>iand         Babool         0         1         0         1         2         0</td> <td></td> <td>shok</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>1</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	iand         Babool         0         1         0         1         2         0		shok	0	0	0		1	0	0		0	0	0	0	
Bair         2         1         6         7         4         2         1         1         0	tiona         Bair         2         1         6         7         4         2         1         1         0<	rtica	labool	0	0	1	0	-	0	1	2	0	0	0	0	u,
Bakain         0 <td>h         Bakain         0<td></td><td>air</td><td>2</td><td>I</td><td>9</td><td>7</td><td>4</td><td>2</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>24</td></td>	h         Bakain         0 <td></td> <td>air</td> <td>2</td> <td>I</td> <td>9</td> <td>7</td> <td>4</td> <td>2</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>24</td>		air	2	I	9	7	4	2	1	1	0	0	0	0	24
Bargad         0 <td>  Siss   Bargad   O   O   O   O   O   O   O   O   O  </td> <td></td> <td>akain</td> <td>0</td> <td>0</td> <td>4</td> <td>I</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td>	Siss   Bargad   O   O   O   O   O   O   O   O   O		akain	0	0	4	I	0	0	0	0	0	0	0	0	5
Bhadar         1         0 <td>ta Chikoo 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>argad</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td> <td>2</td>	ta Chikoo 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		argad	0	0	0	-	0	0	0	0	0	0	0	7	2
Chakundi         0         0         0         7         8         12         9         6         2         0         0           Chikoo         0	ta Chikoo 0 0 0 0 7 8 12 9 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Shadar	٢	0	0	1	0	0	0	0	0	0	0	0	2
Chikoo         0 <td>tra         Chikoo         0&lt;</td> <td>siamea</td> <td>Chakundi</td> <td>0</td> <td>0</td> <td>0</td> <td>*</td> <td>7</td> <td>00</td> <td>12</td> <td>6</td> <td>9</td> <td>2</td> <td>0</td> <td>0</td> <td>44</td>	tra         Chikoo         0<	siamea	Chakundi	0	0	0	*	7	00	12	6	9	2	0	0	44
Eucalyptus         0         0         2         1         0         3         0         0         1         0	Eucalyptus         0         2         1         0         3         0         0         1         0		hikoo	0	0	Н	0	0	0	0	0	0	0		0	1
Gulhad         0 <td>  Gulhad</td> <td></td> <td>ucalyptus</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td>	Gulhad		ucalyptus	0	0	2	1	0	3	0	0	1	0	0	0	7
Gulmohar         0         0         2         1         0         1         0         3         1         0<	Gulmohar         0         0         2         1         0         1         0         3         1         0<		Sulhad	0	0	-	0	0	0	0	0	0	0	0	0	- 1
Imli         0	lica         Imili         0<		Sulmohar	0	0	2	-	0	1	0	3	-	0		0	00
Jahrul         0 <td>Jahrul         0<td>ndira</td><td>ia</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td><td>0</td><td>1</td><td>c</td><td>1</td></td>	Jahrul         0 <td>ndira</td> <td>ia</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>1</td> <td>c</td> <td>1</td>	ndira	ia	0	0	0		0	0	0	0	3	0	1	c	1
Jalebi         0         0         3         2         0         1         0         1         0         1         1         1         1         1         0         1         1         1         1         0 <td>dulce         Jalebi         0         0         3         2         0         0         1         1         0         1         1           ni         Jamun         0         2         0         0         1         1         1         2         0</td> <td></td> <td>ahrul</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>. 1</td>	dulce         Jalebi         0         0         3         2         0         0         1         1         0         1         1           ni         Jamun         0         2         0         0         1         1         1         2         0		ahrul	0	0	0		0	0	0	0	0	0	0	0	. 1
Jamun         0         2         0         0         1         1         1         2         0 <td>ni         Jamun         0         2         0         0         1         1         1         2         0<td></td><td>alebi</td><td>0</td><td>0</td><td>3</td><td>2</td><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>-</td><td>5 1</td></td>	ni         Jamun         0         2         0         0         1         1         1         2         0 <td></td> <td>alebi</td> <td>0</td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>-</td> <td>5 1</td>		alebi	0	0	3	2	0	0	1	0	1	0	1	-	5 1
Jeeyal         2         2         6         14         1         3         0 </td <td>  Junjuna   2 2 6 14 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>amun</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>-</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>/</td>	Junjuna   2 2 6 14 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		amun	0	2	0	0	1	1	-	2	0	0	0	0	/
Junjuna         0 </td <td>Junjuna         0         0         0         1         1         0<!--</td--><td></td><td>eeval</td><td>2</td><td>2</td><td>9</td><td></td><td>Н</td><td>3</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>28</td></td>	Junjuna         0         0         0         1         1         0 </td <td></td> <td>eeval</td> <td>2</td> <td>2</td> <td>9</td> <td></td> <td>Н</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>28</td>		eeval	2	2	9		Н	3	0	0	0	0	0	0	28
a         Kadam         0         1         7         8         4         3         1         0         0         0         2           Kanil         0         0         3         0         0         0         0         0         0         0         0	adamba         Kadam         0         1         7         8         4         3         1         0         0         0         2           uticosa         Kanil         0         0         0         0         0         0         0         0         0         0         0         0           Maria         Action of the contraction		uniuna	0	0	0	~	H	0	0	0	0	0	0	0	2
Kapil 0 0 0 0 0 0 0 0 0 0 0	uticosa Kanil 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		adam	0	1	7	8	4	3	-	0	0	0	0	7	26
	O Charles to the top t	3	lico	0	0	3	0	0	0	0	0	0	0	0	0	3

	Species Name	Left	Left Right	Left	Left Right	Cartes	Left Right	5330	Left Right		Left Right		Left Right	Grand
Scientific name		0-30	0	31	31-60	61	61-90	-16	91-120	121	121-150	×	>150	Total
Artocarpus heterophyllus	Kathal	0	0	1	3	3	0	2	1	0	0	0	0	10
Phoenix dactylifera	Khajur	0	0	0	0	1	2	0	1	0	0	0	0	4
Swietenia	Mahogani	0	0	1	2	0	0	0	0	0	0	0	0	3
Cocos nucifera	Nariyal	0	0	0	0	1	3	3	1	0	0	0	0	80
Azadirachta indica	Neem	0	0	1	0	1	0	0	0	2	0	0	1	5
Citrus limon	Nimbu	0	2	2	1	0	0	0	0	0	0	0	0	5
Gmelina arborea	Pani Gamhar	23	33	42	59	53	64	20	59	36	27	16	11	473
Ficus religiosa	Peepal	0	0	0	0	0	0	0	0	0	0	0	4	4
Other	Phul Gamhar	0	0	0	0	1	0	0	0	0	0	0	0	1
Moringa oleifera	Saajan	0	0	1	0	1	0	0	0	0	0	0	0	2
Tectona grandis	Sagwan	0	0	0	1	0	0	0	0	0	0	C	0	1
Annona reticulata	Sarifa	1	1	0	0	0	0	0	0	0	0	0	0	1
Dalbergia sissoo	Seesam	0	0	1	0	1	0	4	1	1	1	, -	, -	111
Bombax ceiba	Semal	0	3	2	9	2	80	5	13	5	11	3	2	100
Albizia lebbeck	Siris	0	1	1	2	00	00	19	25	27	21	14	1 4	133
Areca catechu	Supari	0	1	0	0	0	0	0	0	0	10	0	0 0	404
Borassus flabellifer	Tad	0	0	0	0	4	0	1	0	1	0	0 0	0	1
Acacia catechu	Khair	0	0	1	0	1	1	0	0		7	0	0 0	0 5
Other	Lakdi	0	0	0	0	0	1	0	0	0	10	0	0 0	4 -
	Total	41	62	105	136	108	120	124	140	87	9	2 0	2 6	1000
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Paul rathur pro-restar Alechay for to

Managor (Tech.)
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PIU-manar