ANNEXURE-I

Period of FCC/data used for ISFR- 2019

S. No.	Name of the State/UT	Period of FCC/data used for ISFR – 2019	
		From	To
1.	Andhra Pradesh	November – 2017	October – 2018
2.	Arunachal Pradesh	October – 2017	March – 2018
3.	Assam	November – 2017	February – 2018
4.	Bihar	October – 2017	December – 2018
5.	Chhattisgarh	November – 2017	January – 2018
6.	Delhi	November – 2017	
7.	Goa	December – 2017	
8.	Gujarat	October – 2017	December – 2017
9.	Haryana	October – 2017	December – 2017
10.	Himachal Pradesh	October – 2017	October – 2017
11.	J & K	September – 2017	November – 2017
12.	Jharkhand	November – 2017	January – 2018
13.	Karnataka	November – 2017	March – 2018
14.	Kerala	December – 2017	March – 2018
15.	Madhya Pradesh	October – 2017	January – 2018
16.	Maharashtra	October – 2017	January – 2018
17.	Manipur	October – 2017	February – 2018
18.	Meghalaya	November – 2017	January – 2018
19.	Mizoram	December – 2017	February – 2018
20.	Nagaland	October – 2017	February – 2018
21.	Odisha	November – 2017	February – 2018
22.	Punjab	October – 2017	October – 2017
23.	Rajasthan	October – 2017	December – 2017
24.	Sikkim	November – 2017	November – 2017
25.	Tamil Nadu	October – 2017	August – 2018
26.	Telangana	November – 2017	January – 2018
27.	Tripura	October – 2017	December – 2017
28.	Uttar Pradesh	October – 2017	January – 2018
29.	Uttarakhand	October - 2017	October – 2018
30.	West Bengal	November – 2017	February – 2018
31.	Andaman & Nicobar Island	April – 2017	March – 2018
32.	Chandigarh	October – 2017	
33.	Dadra & Nagar Haveli	October – 2017	
34.	Daman & Diu	October – 2017	
35.	Lakshadweep	November – 2017	July – 2018
36.	Puducherry	December – 2017	August – 2018

ANNEXURE-II

Volume Equations

Volume equations to compute volume of wood in predominate trees in each States/ UTs are provided in the following tables:

Andhra Pradesh

S. No.	Species Name	Volume Equation
1.	Albizzia amara	$V=(0.13817-2.16947*D+11.4087*D^2+1.11636*D^3)$
2.	Anogeissus latifolia	$V=(0.034725-0.78412*D+7.1873*D^2+6.9495*D^3)$
3.	Dalbergia paniculata	$\sqrt{}V=(-0.144504+2.943115*D)$
4.	Ficus species	$V=(0.088074-1.449236*D+8.760534*D^2)$
5.	Hardwickia binata	$V=(0.025091-0.185618*D+3.561089*D^2+10.80139*D^3)$
6.	Lannea coromandelica	$V=(0.057424-1.153088*D+8.542648*D^2)$
7.	Pterocarpus marsupium	$V=(0.058424-1.233468*D+9.433633*D^2)$
8.	Tamarindus indica	$V=(0.088074-1.449236*D+8.760534*D^2)$
9.	Terminalia tomentosa	$V=(0.05061-1.11994*D+8.77839*D^2)$
10.	Xylia xylocarpa	$V=(0.098-1.52*D+8.963*D^2)$

Arunachal Pradesh

S. No.	Species Name	Volume Equation
1.	Bischofia javanica	$V=(0.00978-0.21005*D+5.62160*D^2)$
2.	Bombax ceiba	$V=(0.00978-0.21005*D+5.62160*D^2)$
3.	Castanopsis indica	$V=(0.05331-0.87098*D+6.52533*D^2+1.74231*D^3)$
4.	Castanopsis species	$V=(0.05331-0.87098*D+6.52533*D^2+1.74231*D^3)$
5.	Duabanga grandiflora	$\sqrt{}V=(0.13199+3.35856*D-0.79250*\sqrt{}D)$
6.	Gmelina arborea	$V=(0.01156+0.21230*D+5.10448*D^2)$
7.	Pinus roxburghii	$\sqrt{}V=(0.291801+6.041763*D-2.430993*\sqrt{}D)$
8.	Pterospermum acerifolium	$V=(0.00978-0.21005*D+5.62160*D^2)$
9.	Sterculia villosa	$\sqrt{}V=(0.35895+4.99513*D-2.14135*\sqrt{}D)$
10.	Terminalia myriocarpa	$V=(-0.096981+10.65*D^2)$

Assam

S. No.	Species Name	Volume Equation
1.	Albizia species	$\sqrt{}V=(-0.07109+2.99732*D-0.26953*\sqrt{}D)$
2.	Bauhinia retusa	$V=(-0.04262+6.09491*D^2)$
3.	Bombax ceiba	$V=(0.04507-0.93461*D+5.48513*D^2+9.16037*D^3)$
4.	Gmelina arborea	$V=(0.1156+0.21230*D+5.10448*D^2)$
5.	Lannea coromandelica	$\sqrt{}V=(-0.32985+2.21152*D+0.78769*\sqrt{}D)$
6.	Schima wallichii	$\sqrt{}V=(0.28069+4.61980*D-1.65381*\sqrt{}D)$
7.	Shorea robusta	$\sqrt{}V=(-0.22388+3.29474*D)$
8.	Stereospermum personatum	$\sqrt{}V=(0.49746+5.98454*D-2.84986*\sqrt{}D)$
9.	Tectona grandis	$\sqrt{}V=(-0.405890+1.98158*D+0.987373*\sqrt{}D)$
10.	Terminalia belerica	$\sqrt{}V=(-0.14325+3.07937*D)$

Bihar

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$\sqrt{V}=(-0.07738+2.592167*D)$
2.	*Boswellia serrata*	$V=(0.03356-1.124*D+10.306*D^2)$
3.	*Butea monosperma*	$V=(0.136196-2.07674*D+10.1566*D^2)$
4.	*Ficus racemosa*	$V=(0.05396-0.82031*D+6.17975*D^2)$
5.	*Ficus religiosa*	$V=(0.05396-0.82031*D+6.17975*D^2)$
6.	*Lannea coromandelica*	$\sqrt{V}=(-0.32985+2.21152*D+0.78769*\sqrt{D})$
7.	*Madhuca latifolia*	$V=(-0.00092-0.55547*D+7.3446*D^2)$
8.	*Mallotus philippinensis*	$V=(0.14749-2.87503*D+19.61977*D^2-19.11630*D^3)$
9.	*Shorea robusta*	$V=(0.1563-2.45104*D+11.90581*D^2)$
10.	*Terminalia tomentosa*	$V=(0.08565-1.51685*D+10.24871*D^2)$

Chhattisgarh

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$V=(-0.02958+8.05003*D^2)$
2.	*Boswellia serrata*	$V=(0.044621-1.25694*D+10.86801*D^2-3.009085*D^3)$
3.	*Cleistanthus collinus*	$V=(-0.03915+0.16295*D+4.09182*D^2)$
4.	*Diospyros melanoxylon*	$V=(0.12401-2.00966*D+10.87747*D^2)$
5.	*Lagerstroemia parviflora*	$V=(0.0568-1.19611*D+9.11319*D^2)$
6.	*Lannea coromandelica*	$\sqrt{V}=(-0.11751+2.86874*D)$
7.	*Madhuca latifolia*	$V=(-0.00092-0.55547*D+7.3446*D^2)$
8.	*Pterocarpus marsupium*	$V=(-0.04659+8.06901*D^2)$
9.	*Shorea robusta*	$V=(0.17279-2.54241*D+13.08048*D^2-3.49087*D^3)$
10.	*Terminalia tomentosa*	$V=(0.00376-0.77604*D+8.35533*D^2)$

Delhi

S. No.	Species Name	Volume Equation
1.	*Acacia arabica*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
2.	*Acacia catechu*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
3.	*Acacia lenticularis*	$\sqrt{V}=(-0.00142+2.61911*D-0.54703*\sqrt{D})$
4.	*Azadirachta indica*	$V=(-0.03510+5.32981*D^2)$
5.	*Cassia fistula*	$V=(0.05159-0.53331*D+3.46016*D^2+10.18473*D^3)$
6.	*Ehretia laevis*	$V=(-0.03844+0.946490*D-5.40987*D^2+33.17338*D^3)$
7.	*Ficus virene*	$\sqrt{V}=(0.03629+3.95389*D-0.84421*\sqrt{D})$
8.	*Holoptelea integrifolia*	$\sqrt{V}=(0.21569+4.329878*D-1.504977*\sqrt{D})$
9.	*Leucaena leucocephala*	$V=(0.081467-1.063661*D+6.452918*D^2)$
10.	*Prosopis juliflora*	$V=(0.081467-1.063661*D+6.452918*D^2)$

Goa

S. No.	Species Name	Volume Equation
1.	*Anacardium occidentale*	$V=(4.5899*D^2-0.422*D+0.0148)$
2.	*Careya arborea*	$\sqrt{V}=(-0.23738+2.33289*D+0.48512*\sqrt{D})$
3.	*Dillenia pentagyna*	$V=(0.070-1.295*D+9.429*D^2)$
4.	*Lagerstroemia lanceolata*	$\sqrt{V}=(-0.13034+2.824203*D)$

S. No.	Species Name	Volume Equation
5.	*Lannea coromandelica*	$\sqrt{\sqrt{V}}=(0.404153+5.555051*D-2.545525*\sqrt{D})$
6.	*Schleichera trijuga*	$V=(0.01-0.912*D+11.396*D^2)$
7.	*Syzygium cumini*	$\sqrt{\sqrt{V}}=(0.30706+5.12731*D-2.0987*\sqrt{D})$
8.	*Terminalia tomentosa*	$\sqrt{\sqrt{V}}=(-0.203947+3.159215*D)$
9.	*Terminalia paniculata*	$V=(0.131-1.87132*D+9.47861*D^2)$
10.	*Xylia xylocarpa*	$V=(0.007602-0.033037*D+1.868567*D^2+4.483454*D^3)$

Gujarat

S. No.	Species Name	Volume Equation
1.	*Adina cordifolia*	$\sqrt{\sqrt{V}}=(0.21569+4.329878*D-1.504977*\sqrt{D})$
2.	*Anogeissus latifolia*	$V=(0.030502-1.105937*D+12.261268*D^2)$
3.	*Butea monosperma*	$V=(-0.032-0.0619*D+7.208*D^2)$
4.	*Diospyros melanoxylon*	$V=(0.033867-0.975148*D+8.255412*D^2)$
5.	*Lannea coromandelica*	$\sqrt{\sqrt{V}}=(0.404153+5.555051*D-2.545525*\sqrt{D})$
6.	*Madhuca latifolia*	$V=(0.074069-1.230020*D+7.726902*D^2)$
7.	*Mitragyna parviflora*	$V=(0.099768-1.744274*D+10.086934*D^2)$
8.	*Tectona grandis*	$V=(0.032011-0.995414*D+9.91129*D^2)$
9.	*Terminalia tomentosa*	$V=(0.060344-1.569539*D+12.090296*D^2)$
10.	*Wrightia tinctoria*	$\sqrt{\sqrt{V}}=(0.050294+3.115497*D-0.687813*\sqrt{D})$

Haryana

S. No.	Species Name	Volume Equation
1.	*Acacia arabica*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
2.	*Acacia catechu*	$V=(0.02384-0.72161*D+7.46888*D^2)$
3.	*Acacia tortolis*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
4.	*Anogeissus latifolia*	$\sqrt{\sqrt{V}}=(0.2122+4.947663*D-1.5929*\sqrt{D})$
5.	*Dalbergia sissoo*	$V=(0.00331+0.000636*D^2*10000)$
6.	*Eucalyptus species*	$V=(0.02894-0.89284*D+8.72416*D^2)$
7.	*Lannea coromandelica*	$V=(0.14004-2.3599*D+11.90726*D^2)$
8.	*Phoenix sylvestris*	$V=(0.0239-0.6266*D+5.4067*D^2)$
9.	*Prosopis juliflora*	$V=(0.17553-0.71434*\sqrt{D}+7.94663*D^2)$
10.	*Syzygium cumini*	$V=(0.08481-1.81774*D+12.63047*D^2-6.69555*D^3)$

Himachal Pradesh

S. No.	Species Name	Volume Equation
1.	*Abies densa*	$\sqrt{\sqrt{V}}=(-0.084305+3.060072*D)$
2.	*Abies pindrow*	$V=(7.92*D^2+0.244*D-0.061)$
3.	*Abies smithiana*	$V=(0.163269-2.232068*D+11.770869*D^2+1.06041*D^3)$
4.	*Cedrus deodara*	$V=(10.03982*D^2-1.28303*D+0.07367)$
5.	*Pinus wallichiana*	$V=(10.44*D^2-0.851*D+0.020)$
6.	*Pinus roxburghii*	$\sqrt{\sqrt{V}}=(0.05131+3.9859*D-1.0245*\sqrt{D})$
7.	*Quercus leucotrichophora*	$V=(0.0988-1.5547*D+10.1631*D^2)$
8.	*Quercus semecarpifolia*	$V=(0.098800-1.55471*D+10.16317*D^2)$
9.	*Rhododendron arboreum*	$\sqrt{\sqrt{V}}=(0.306492+4.31536*D-1.749908*\sqrt{D})$
10.	*Shorea robusta*	$\sqrt{\sqrt{V}}=(0.16306+4.8991*D-1.57402*\sqrt{D})$

Jammu & Kashmir

S. No.	Species Name	Volume Equation
1.	*Abies densa*	$V=(0.10774-2.09529*D+12.62008*D^2-1.61065*D^3)$
2.	*Abies pindrow*	$V=(0.10774-2.09529*D+12.62008*D^2-1.61065*D^3)$
3.	*Abies smithiana*	$\sqrt{V}=(0.20050+4.58840*D-1.42603*\sqrt{D})$
4.	*Cedrus deodara*	$V=(10.03982*D^2-1.28303*D+0.07367)$
5.	*Mallotus philippinensis*	$V=(0.14749-2.87503*D+19.61977*D^2-19.11630*D^3)$
6.	*Pinus wallichiana*	$V=(0.02-0.851*D+10.44*D^2)$
7.	*Pinus roxburghii*	$V=(0.128812-2.285176*D+11.950158*D^2)$
8.	*Quercus dilatata floribunda*	$V=(0.04430-0.84266*D+6.36239*D^2+2.27556*D^3)$
9.	*Quercus leucotrichophora*	$V=(0.04430-0.84266*D+6.36239*D^2+2.27556*D^3)$
10.	*Taxus baccata*	$V=(0.007602-0.033037*D+1.868567*D^2+4.483454*D^3)$

Jharkhand

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$\sqrt{V}=(-0.07738+2.592167*D)$
2.	*Boswellia serrata*	$V=(0.03356-1.124*D+10.306*D^2)$
3.	*Buchanania latifolia*	$V=(0.031-0.64087*D+6.04066*D^2)$
4.	*Butea monosperma*	$V=(0.0417-0.47789*D+3.50714*D^2+9.76048*D^3)$
5.	*Diospyros melanoxylon*	$V=(0.12401-2.00966*D+10.87747*D^2)$
6.	*Lannea coromandelica*	$\sqrt{V}=(-0.11751+2.86874*D)$
7.	*Madhuca latifolia*	$V=(-0.00092-0.55547*D+7.3446*D^2)$
8.	*Schleichera trijuga*	$V=(0.010-0.912*D+11.396*D^2)$
9.	*Shorea robusta*	$V=(0.022585-0.70158*D+8.714*D^2)$
10.	*Terminalia tomentosa*	$V=(0.08565-1.51685*D+10.24871*D^2)$

Karnataka

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$V=(0.030502-1.105937*D+12.261268*D^2)$
2.	*Careya arborea*	$\sqrt{V}=(0.23738+2.33289*D+0.48512*\sqrt{D})$
3.	*Lagerstroemia lanceolata*	$V=(0.066188-1.334512*D+9.403257*D^2)$
4.	*Olea dioica*	$V=(-0.03001+5.75523*D^2)$
5.	*Poeciloneuron indicum*	$\sqrt{V}=(-0.153973+2.724109*D)$
6.	*Syzygium cumini*	$\sqrt{V}=(0.30706+5.12731*D-2.0987*\sqrt{D})$
7.	*Tectona grandis*	$\sqrt{V}=(-0.40589+1.98158*D+0.987373*\sqrt{D})$
8.	*Terminalia tomentosa*	$\sqrt{V}=(-0.203947+3.159215*D)$
9.	*Terminalia paniculata*	$V=(0.131-1.87132*D+9.47861*D^2)$
10.	*Xylia xylocarpa*	$\sqrt{V}=(0.01631+2.20921*D)$

Kerala

S. No.	Species Name	Volume Equation
1.	*Artocarpus hirsute*	$V=(0.076-1.319*D+11.37*D^2)$
2.	*Diospyros species*	$\sqrt{V}=(-0.184139+2.892723*D)$
3.	*Lagerstroemia lanceolata*	$V=(-0.06183+0.411348*D+1.84813*D^2+12.43582*D^3-4.26661*D^4)$
4.	*Syzygium cumini*	$\sqrt{V}=(0.30706+5.12731*D-2.0987*\sqrt{D})$

S. No.	Species Name	Volume Equation
5.	*Tectona grandis*	$\sqrt{}V=(-0.40589+1.98158*D+0.987373*\sqrt{D})$
6.	*Terminalia belerica*	$\sqrt{}V=(-0.153973+2.724109*D)$
7.	*Terminalia tomentosa*	$\sqrt{}V=(-0.203947+3.159215*D)$
8.	*Terminalia paniculata*	$V=(0.131-1.87132*D+9.47861*D^2)$
9.	*Vateria indica*	$\sqrt{}V=(-0.15493+3.1119*D)$
10.	*Xylia xylocarpa*	$\sqrt{}V=(0.01631+2.20921*D)$

Madhya Pradesh

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$V=(0.145667-2.704089*D+17.4656*D^2-10.4903*D^3)$
2.	*Boswellia serrata*	$V=(0.050452-1.228748*D+9.123381*D^2)$
3.	*Butea monosperma*	$V=(0.0417-0.47789*D+3.50714*D^2+9.76048*D^3)$
4.	*Diospyros melanoxylon*	$V=(0.033867-0.975148*D+8.255412*D^2)$
5.	*Lagerstroemia parviflora*	$V=(0.0568-1.19611*D+9.11319*D^2)$
6.	*Lannea coromandelica*	$\sqrt{}V=(-0.11751+2.86874*D)$
7.	*Madhuca latifolia*	$V=(-0.00092-0.55547*D+7.3446*D^2)$
8.	*Shorea robusta*	$\sqrt{}V=(0.19994+4.57179*D-1.56823*\sqrt{D})$
9.	*Tectona grandis*	$V=(-0.003673-0.379175*D+6.368282*D^2)$
10.	*Terminalia tomentosa*	$V=(0.060344-1.569539*D+12.090296*D^2)$

Maharashtra

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$V=(-0.061856+7.952136*D^2)$
2.	*Boswellia serrata*	$V=(0.050452-1.228748*D+9.123381*D^2)$
3.	*Butea monosperma*	$V=(0.18573-2.85418*D+15.03576*D^2)$
4.	*Careya arborea*	$\sqrt{}V=(0.23738+2.33289*D+0.48512*\sqrt{D})$
5.	*Lagerstroemia parviflora*	$V=(0.06466-1.371984*D+9.629971*D^2)$
6.	*Lannea coromandelica*	$V=(0.093318-1.531417*D+9.011590*D^2)$
7.	*Madhuca latifolia*	$V=(0.074069-1.230020*D+7.726902*D^2)$
8.	*Pterocarpus marsupium*	$V=(0.028252-0.833643*D+8.033788*D^2)$
9.	*Tectona grandis*	$\sqrt{}V=(-0.106720+2.562418*D)$
10.	*Terminalia tomentosa*	$V=(0.048532-1.05615*D+8.204564*D^2)$

Manipur

S. No.	Species Name	Volume Equation
1.	*Albizia species*	$\sqrt{}V=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
2.	*Albizzia procera*	$V=(0.13817-2.16947*D+11.4087*D^2+1.11636*D^3)$
3.	*Callicarpa arborea*	$V=(0.11079-1.81103*D+11.4132*D^2+0.38528*D^3)$
4.	*Castanopsis species*	$V=(-0.02301+0.12721*D+2.4127*D^2+8.12834*D^3)$
5.	*Duabanga grandiflora*	$\sqrt{}V=(-0.01217+3.3993*D-0.28981*\sqrt{D})$
6.	*Ficus species*	$\sqrt{}V=(0.03629+3.95389*D-0.84421*\sqrt{D})$
7.	*Gmelina arborea*	$\sqrt{}V=(-0.00189+2.10033*D)$
8.	*Pinus kesiya*	$V=(-0.01523+5.65779*D^2)$
9.	*Quercus species*	$V=(0.14153-2.27358*D+12.9049*D^2)$
10.	*Schima wallichii*	$\sqrt{}V=(0.28069+4.61980*D-1.65381*\sqrt{D})$

Annexure

Meghalaya

S. No.	Species Name	Volume Equation
1.	*Albizia species*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
2.	*Areca catechu*	$V=(0.0239-0.6266*D+5.4067*D^2)$
3.	*Artocarpus chaplasha*	$\sqrt{V}=(-0.15154+2.79983*D)$
4.	*Artocarpus heterophyllus*	$\sqrt{V}=(-0.15154+2.79983*D)$
5.	*Callicarpa arborea*	$\sqrt{V}=(-0.04506+2.33446*D)$
6.	*Careya arborea*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
7.	*Gmelina arborea*	$\sqrt{V}=(-0.00189+2.10033*D)$
8.	*Hevea brasiliensis*	$\sqrt{V}=(-0.226400+2.935870*D)$
9.	*Pinus kesiya*	$V=(-0.01523+5.65779*D^2)$
10.	*Schima wallichii*	$\sqrt{V}=(0.28069+4.61980*D-1.65381*\sqrt{D})$

Mizoram

S. No.	Species Name	Volume Equation
1.	*Albizia species*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
2.	*Callicarpa arborea*	$\sqrt{V}=(-0.04506+2.33446*D)$
3.	*Castanopsis species*	$V=(0.05331-0.87098*D+6.52533*D^2+1.74231*D^3)$
4.	*Cedrela toona*	$\sqrt{V}=(-0.05514+2.67753*D)$
5.	*Duabanga grandiflora*	$\sqrt{V}=(-0.01217+3.3993*D-0.28981*\sqrt{D})$
6.	*Dysoxylum binectariferum*	$V=(-0.04752+0.50667*D+1.88433*D^2+11.30632*D^3)$
7.	*Gmelina arborea*	$\sqrt{V}=(-0.00189+2.10033*D)$
8.	*Macaranga species*	$V=(0.13333-2.18825*D+13.12678*D^2)$
9.	*Schima wallichii*	$\sqrt{V}=(0.28069+4.61980*D-1.65381*\sqrt{D})$
10.	*Tectona grandis*	$V=(0.19112-3.25372*D+17.9194*D^2-1.66117*D^3)$

Nagaland

S. No.	Species Name	Volume Equation
1.	*Albizia species*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
2.	*Alnus species*	$V=(0.0741-1.3603*D+10.9229*D^2)$
3.	*Artocarpus chaplasha*	$\sqrt{V}=(-0.226400+2.935870*D)$
4.	*Bauhinia retusa*	$\sqrt{V}=(-0.226400+2.935870*D)$
5.	*Cedrela toona*	$\sqrt{V}=(-0.05514+2.67753*D)$
6.	*Erythrina species*	$V=(-0.07803+1.70258*D-9.1618*D^2+33.91455*D^3)$
7.	*Ficus species*	$\sqrt{V}=(0.03629+3.95389*D-0.84421*\sqrt{D})$
8.	*Quercus semiserrata*	$\sqrt{V}=(-0.226400+2.935870*D)$
9.	*Schima wallichii*	$\sqrt{V}=(0.28069+4.61980*D-1.65381*\sqrt{D})$
10.	*Sterculia villosa*	$\sqrt{V}=(0.35895+4.99513*D-2.14135*\sqrt{D})$

Odisha

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$\sqrt{V}=(-0.357373+2.430449*D+0.794626*\sqrt{D})$
2.	*Diospyros melanoxylon*	$V=(-0.009124-0.494103*D+7.610416*D^2)$
3.	*Ficus bengalensis*	$V=(0.020853-0.610255*D+6.108230*D^2)$
4.	*Lannea coromandelica*	$V=(0.057424-1.153088*D+8.542648*D^2)$

5.	*Madhuca latifolia*	$V=(-0.058016+0.352354*D+2.92291*D^2+3.624110*D^3)$
6.	*Mangifera indica*	$V=(0.108-1.706*D+7.559*D^2)$
7.	*Schleichera trijuga*	$\sqrt{\sqrt{V}}=(-0.24358+3.58273*D)$
8.	*Shorea robusta*	$\sqrt{\sqrt{V}}=(0.19994+4.57179*D-1.56823*\sqrt{D})$
9.	*Syzygium cumini*	$Log_eV=2.132776+2.479397\ log_eD$
10.	*Terminalia tomentosa*	$V=(0.05061-1.11994*D+8.77839*D^2)$

Punjab

S. No.	Species Name	Volume Equation
1.	*Acacia catechu*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
2.	*Albizzia lebbek*	$V=(-0.0367+5.87369*D^2)$
3.	*Butea monosperma*	$\sqrt{\sqrt{V}}=(-0.24276+2.95525*D)$
4.	*Dalbergia sissoo*	$V=(0.00331+6.36*D^2)$
5.	*Eucalyptus species*	$V=0.02894-0.89284*D+8.72416*D^2)$
6.	*Grewia oppositifolia*	$V=(0.05858-1.20414*D+9.80167*D^2)$
7.	*Holoptelea integrifolia*	$V=(0.17553-0.71434*\sqrt{D}+7.94663*D^2)$
8.	*Lannea coromandelica*	$V=(0.14004-2.3599*D+11.90726*D^2)$
9.	*Prosopis juliflora*	$V=(0.17553-0.71434*\sqrt{D}+7.94663*D^2)$
10.	*Terminalia arjuna*	$\sqrt{\sqrt{V}}=(-0.203947+3.159215*D)$

Rajasthan

S. No.	Species Name	Volume Equation
1.	*Acacia catechu*	$V=(0.26949-1.61804*D+8.79495*D^2+2.49489*D^3)$
2.	*Acacia lenticularis*	$V=(-0.048108+5.873169*D^2)$
3.	*Anogeissus latifolia*	$V=(-0.01662+4.4268*D^2)$
4.	*Anogeissus pendula*	$V=(0.00085-0.35165*D+4.77386*D^2-0.90585*D^3)$
5.	*Boswellia serrata*	$\sqrt{\sqrt{V}}=(-0.11629+2.4254*D)$
6.	*Butea monosperma*	$V=(-0.032-0.0619*D+7.208*D^2)$
7.	*Diospyros melanoxylon*	$\sqrt{\sqrt{V}}=(-0.184139+2.892723*D)$
8.	*Lannea coromandelica*	$\sqrt{\sqrt{V}}=(0.404153+5.555051*D-2.545525*\sqrt{D})$
9.	*Madhuca latifolia*	$V=(0.081467-1.063661*D+6.452918*D^2)$
10.	*Tectona grandis*	$V=(0.062108-0.927983*D+6.613031*D^2)$

Sikkim

S. No.	Species Name	Volume Equation
1.	*Abies densa*	$V=(0.10774-2.09529*D+12.62008*D^2-1.61065*D^3)$
2.	*Acer species*	$\sqrt{\sqrt{V}}=(-0.10851+3.0425*D)$
3.	*Alnus species*	$V=(0.0741-1.3603*D+10.9229*D^2)$
4.	*Castanopsis species*	$V=(0.05331-0.87098*D+6.52533*D^2+1.74231*D^3)$
5.	*Engelhardtia spicata*	$V=(0.007602-0.033037*D+1.868567*D^2+4.483454*D^3)$
6.	*Eurya japonica*	$V=(-0.01097+5.30991*D^2)$
7.	*Machilus species*	$V=(4.84009*D^2-0.02402)$
8.	*Schima wallichii*	$\sqrt{\sqrt{V}}=(-0.112426+2.54133*D)$
9.	*Shorea robusta*	$\sqrt{\sqrt{V}}=(-0.22388+3.29474*D)$
10.	*Symplocos theaefolia*	$V=(-0.03754+5.87*D^2)$

Tamil Nadu

S. No.	Species Name	Volume Equation
1.	*Acacia Mearnsii*	$V=(0.088074-1.449236*D+8.760534*D^2)$
2.	*Albizzia amara*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
3.	*Anogeissus latifolia*	$V=(0.045731-1.020606*D+9.656667*D^2)$
4.	*Commiphora ostdets*	$V=(0.088074-1.449236*D+8.760534*D^2)$
5.	*Eucalyptus globules*	$\sqrt{V}=(-0.115412+3.12191*D)$
6.	*Eucalyptus species*	$V=(0.02894-0.89284*D+8.72416*D^2)$
7.	*Ficus species*	$V=(0.088074-1.449236*D+8.760534*D^2)$
8.	*Pterocarpus marsupium*	$V=(0.058424-1.233468*D+9.433633*D^2)$
9.	*Tamarindus indica*	$V=(0.131-1.87132*D+9.47861*D^2)$
10.	*Tectona grandis*	$\sqrt{V}=(-0.405890+1.98158*D+0.987373*\sqrt{D})$

Telangana

S. No.	Species Name	Volume Equation
1.	*Anogeissus latifolia*	$V=(-0.061856+7.952136*D^2)$
2.	*Boswellia serrata*	$V=(0.028917+7.777047*D^3)$
3.	*Cleistanthus collinus*	$V=(0.011617-0.309699*D+4.629527*D^2)$
4.	*Dalbergia paniculata*	$\sqrt{V}=(-0.144504+2.943115*D)$
5.	*Lagerstroemia parviflora*	$V=(0.066188-1.334512*D+9.403257*D^2)$
6.	*Lannea coromandelica*	$V=(0.091153-1.66153*D+10.24624*D^2)$
7.	*Madhuca latifolia*	$V=(0.046883-0.894379*D+7.220441*D^2)$
8.	*Tectona grandis*	$V=(0.023613-0.531006*D+6.731036*D^2)$
9.	*Terminalia tomentosa*	$V=(0.051812-1.076790*D+7.991280*D^2)$
10.	*Xylia xylocarpa*	$V=(0.05823+4.597986*D^3)$

Tripura

S. No.	Species Name	Volume Equation
1.	*Albizia species*	$\sqrt{V}=(-0.07109+2.99732*D-0.26953*\sqrt{D})$
2.	*Artocarpus chaplasha*	$\sqrt{V}=(-0.15154+2.79983*D)$
3.	*Artocarpus heterophyllus*	$\sqrt{V}=(-0.15154+2.79983*D)$
4.	*Gmelina arborea*	$\sqrt{V}=(-0.00189+2.10033*D)$
5.	*Hevea brasiliensis*	$\sqrt{V}=(-0.226400+2.935870*D)$
6.	*Lannea coromandelica*	$\sqrt{V}=(-0.21972+2.86603*D)$
7.	*Macaranga species*	$V=(0.13333-2.18825*D+13.12678*D^2)$
8.	*Pterospermum acerifolium*	$\sqrt{V}=(0.21596+4.14881*D-1.38264*\sqrt{D})$
9.	*Schima wallichii*	$\sqrt{V}=(-0.11242+2.54133*D)$
10.	*Tectona grandis*	$V=(0.19112-3.25372*D+17.9194*D^2-1.66117*D^3)$

Uttar Pradesh

S. No.	Species Name	Volume Equation
1.	*Acacia catechu*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
2.	*Anogeissus latifolia*	$\sqrt{V}=(-0.07738+2.592167*D)$
3.	*Butea monosperma*	$\sqrt{V}=(-0.24276+2.95525*D)$
4.	*Ficus racemosa*	$\sqrt{V}=(0.03629+3.95389*D-0.84421*\sqrt{D})$

S. No.	Species Name	Volume Equation
5.	*Lannea coromandelica*	$V=(0.14004-2.3599*D+11.90726*D^2)$
6.	*Mallotus philippinensis*	$V=(0.14749-2.87503*D+19.61977*D^2-19.11630*D^3)$
7.	*Shorea robusta*	$\sqrt{V}=(0.16306+4.8991*D-1.57402*\sqrt{D})$
8.	*Syzygium cumini*	$V=(0.08481-1.81774*D+12.63047*D^2-6.9555*D^3)$
9.	*Tectona grandis*	$V=(0.08847-1.46936*D+11.98979*D^2+1.970560*D^3)$
10.	*Terminalia tomentosa*	$V=(0.18149-2.85865*D+18.60799*D^2)$

Uttarakhand

S. No.	Species Name	Volume Equation
1.	*Abies smithiana*	$V=(0.163269-2.232068*D+11.770869*D^2+1.06041*D^3)$
2.	*Lyonia ovalifolia*	$V=(0.007602-0.033037*D+1.868567*D^2+4.483454*D^3)$
3.	*Mallotus philippinensis*	$V=(0.14749-2.87503*D+19.61977*D^2-19.11630*D^3)$
4.	*Pinus roxburghii*	$\sqrt{V}=(0.05131+3.9859*D-1.0245*\sqrt{D})$
5.	*Quercus dilatata floribunda*	$V=(0.0988-1.5547*D+10.1631*D^2)$
6.	*Quercus leucotrichophora*	$\sqrt{V}=(0.240157+3.820069*D-1.39452*\sqrt{D})$
7.	*Quercus semecarpifolia*	$V=(0.098800-1.55471*D+10.16317*D^2)$
8.	*Rhododendron arboreum*	$\sqrt{V}=(0.306492+4.31536*D-1.749908*\sqrt{D})$
9.	*Shorea robusta*	$\sqrt{V}=(0.16306+4.8991*D-1.57402*\sqrt{D})$
10.	*Terminalia tomentosa*	$V=(0.08658-2.04096*D+13.28405*D^2-3.58047*D^3)$

West Bengal

S. No.	Species Name	Volume Equation
1.	*Acacia auriculiformis*	$V=(0.04235-0.74240*D+7.26875*D^2)$
2.	*Butea monosperma*	$V=(0.031-0.64087*D+6.04066*D^2)$
3.	*Eucalyptus species*	$V=(0.02894-0.89284*D+8.72416*D^2)$
4.	*Lagerstroemia spaciosa*	$V=(0.11740-1.58941*D+9.76464*D^2)$
5.	*Madhuca latifolia*	$V=(0.046883-0.894379*D+7.220441*D^2)$
6.	*Schima wallichii*	$\sqrt{V}=(0.28069+4.61980*D-1.65381*\sqrt{D})$
7.	*Shorea robusta*	$V=(0.16019-2.81861*D+16.19328*D^2)$
8.	*Sterculia villosa*	$V=(0.025584-0.89224*D+9.5879*D^2)$
9.	*Tectona grandis*	$V=(0.19112-3.25372*D+17.9194*D^2-1.66117*D^3)$
10.	*Trewia nudiflora*	$V=(0.0549-1.31*D+10.0*D^2)$

A & N Islands

S. No.	Species Name	Volume Equation
1.	*Bombax ceiba*	$V=(0.136196-2.07674*D+10.1566*D^2)$
2.	*Canarium euphyllum*	$V=(0.004338-0.7315*D+11.1750*D^2)$
3.	*Dillenia pentagyna*	$V=(0.070-1.295*D+9.429*D^2)$
4.	*Dipterocarpus species*	$V=(-0.045595+8.576*D^2)$
5.	*Dipterocarpus turbinatus*	$\sqrt{V}=(0.06063+3.43666*D-0.75571*\sqrt{D})$
6.	*Perishia insignis*	$\sqrt{V}=(0.06063+3.43666*D-0.75571*\sqrt{D})$
7.	*Pterocarpus indicus*	$\sqrt{V}=(0.06063+3.43666*D-0.75571*\sqrt{D})$
8.	*Pterocymbium tinctorium*	$V=(0.019795-0.99448*D+10.101*D^2)$
9.	*Terminalia procera*	$V=(0.05061-1.11994*D+8.77839*D^2)$
10.	*Tetrameles nudiflora*	$\sqrt{V}=(0.06063+3.43666*D-0.75571*\sqrt{D})$

Chandigarh

S. No.	Species Name	Volume Equation
1.	*Acacia arabica*	$V=(0.16609-2.78851*D+17.22127*D^2-11.60248*D^3)$
2.	*Acacia catechu*	$V=(0.02384-0.72161*D+7.46888*D^2)$
3.	*Dalbergia sissoo*	$V=(0.00331+6.36*D^2)$
4.	*Eucalyptus species*	$V=(0.02894-0.89284*D+8.72416*D^2)$
5.	*Leucaena leucocephala*	$V=(0.17553-0.71434*\sqrt{D}+7.94663*D^2)$
6.	*Melia azadirachta*	$V=(-0.03510+5.32981*D^2)$
7.	*Morus species*	$V=(-0.0351+5.32981*D^2)$
8.	*Populus species*	$\sqrt{\sqrt{V}}=(-0.143393+3.040067*D)$
9.	*Prosopis juliflora*	$V=(0.17553-0.71434*\sqrt{D}+7.94663*D^2)$
10.	*Terminalia belerica*	$\sqrt{\sqrt{V}}=(-0.14017+3.36423*D)$

Dadra & Nagar Haveli

S. No.	Species Name	Volume Equation
1.	*Acacia catechu*	$V=(-0.048108+5.873169*D^2)$
2.	*Anogeissus latifolia*	$V=(0.030502-1.105937*D+12.261268*D^2)$
3.	*Bridelia retusa*	$V=(-0.032-0.0619*D+7.208*D^2)$
4.	*Butea monosperma*	$V=(-0.032-0.0619*D+7.208*D^2)$
5.	*Grewia tiliaefolia*	$\sqrt{\sqrt{V}}=(-0.153973+2.724109*D)$
6.	*Lannea coromandelica*	$\sqrt{\sqrt{V}}=(0.404153+5.555051*D-2.545525*\sqrt{D})$
7.	*Madhuca latifolia*	$V=(0.074069-1.230020*D+7.726902*D^2)$
8.	*Tectona grandis*	$\sqrt{\sqrt{V}}=(-0.40589+1.98158*D+0.987373*\sqrt{D})$
9.	*Terminalia belerica*	$V=(0.074706-1.430082*D+10.181971*D^2)$
10.	*Terminalia tomentosa*	$\sqrt{\sqrt{V}}=(-0.203947+3.159215*D)$

Daman Diu

S. No.	Species Name	Volume Equation
1.	*Acacia arabica*	$\sqrt{\sqrt{V}}=(-0.153973+2.724109*D)$
2.	*Azadirachta indica*	$\sqrt{\sqrt{V}}=(-0.153973+2.724109*D)$
3.	*Casuarina equisetifolia*	$\sqrt{\sqrt{V}}=(-0.153973+2.724109*D)$
4.	*Prosopis juliflora*	$V=(0.081467-1.063661*D+6.452918*D^2)$

ANNEXURE- III A

Estimated number of stems by species and diameter class in Forest at Country level

(in '000)

Sl.No	Species	Diameter Class (cm)			Total	Percent
		10-30	30-60	60+		
1.	*Abies densa*	7,747	4,970	4,905	17,622	0.13
2.	*Abies pindrow*	20,803	27,549	17,338	65,690	0.48
3.	*Abies smithiana*	21,514	12,912	9,608	44,034	0.32
4.	*Acacia catechu*	1,70,811	5,192	236	1,76,239	1.29
5.	*Adina cordifolia*	39,811	12,167	2,571	54,549	0.40
6.	*Albizia species*	71,839	15,636	548	88,023	0.64
7.	*Anogeissus latifolia*	4,41,050	47,106	2,189	4,90,345	3.59
8.	*Bombax ceiba*	24,032	15,791	3,442	43,265	0.32
9.	*Boswellia serrata*	56,781	45,021	1,143	1,02,945	0.75
10.	*Buchanania latifolia*	2,32,126	6,449	0	2,38,575	1.75
11.	*Butea monosperma*	1,69,913	15,071	383	1,85,367	1.36
12.	*Careya arborea*	50,623	4,747	314	55,684	0.41
13.	*Castanopsis species*	1,00,095	14,086	1,354	1,15,535	0.85
14.	*Cedrus deodara*	61,811	34,425	13,417	1,09,653	0.80
15.	*Cleistanthus collinus*	2,55,882	6,980	371	2,63,233	1.93
16.	*Dalbergia paniculata*	55,773	12,226	814	68,813	0.50
17.	*Diospyros melanoxylon*	2,51,493	31,031	1,294	2,83,818	2.08
18.	*Ficus species*	62,602	13,171	2,136	77,909	0.57
19.	*Gmelina arborea*	38,593	11,873	1,886	52,352	0.38
20.	*Lagerstroemia parviflora*	2,63,178	19,154	518	2,82,850	2.07
21.	*Lannea coromandelica*	3,36,866	54,306	1,583	3,92,755	2.88
22.	*Madhuca latifolia*	1,31,418	42,683	5,010	1,79,111	1.31
23.	*Pinus wallichiana*	91,879	37,351	10,267	1,39,497	1.02
24.	*Pinus roxburghii*	1,83,057	87,140	8,876	2,79,073	2.04
25.	*Pterocarpus marsupium*	88,111	23,587	1,600	1,13,298	0.83
26.	*Quercus dilatata floribunda*	19,638	6,862	2,029	28,529	0.21
27.	*Quercus leucotrichophora*	2,18,018	40,293	4,101	2,62,412	1.92
28.	*Quercus semecarpifolia*	23,982	10,248	5,339	39,569	0.29
29.	*Rhododendron arboreum*	94,318	18,274	1,061	1,13,653	0.83
30.	*Schima wallichii*	1,03,239	16,218	614	1,20,071	0.88
31.	*Schleichera trijuga*	59,934	17,582	2,180	79,696	0.58
32.	*Shorea robusta*	9,08,393	2,13,322	17,265	11,38,980	8.34
33.	*Sterculia villosa*	27,343	12,849	1,396	41,588	0.30
34.	*Syzygium cumini*	1,24,181	35,140	3,443	1,62,764	1.19
35.	*Tectona grandis*	7,46,416	98,312	3,408	8,48,136	6.21
36.	*Terminalia belerica*	43,381	12,341	4,861	60,583	0.44
37.	*Terminalia tomentosa*	4,00,545	83,205	5,932	4,89,682	3.59
38.	*Terminalia myriocarpa*	39,027	19,098	3,465	61,590	0.45
39.	*Terminalia paniculata*	76,826	21,419	4,188	1,02,433	0.75
40.	*Xylia xylocarpa*	1,31,098	25,233	2,178	1,58,509	1.16
41.	Rest of Species	53,06,676	6,29,465	86,541	60,22,682	44.12
Total		**1,15,50,823**	**18,60,485**	**2,39,804**	**1,36,51,112**	**100.00**

ANNEXURE- III B

Estimated volume by species and diameter class in Forest at Country level

(in million cum)

Sl.No	Species	Diameter Class (cm)			Total	Percent
		10-30	30-60	60+		
1.	*Abies densa*	1.75	7.99	32.16	41.90	0.98
2.	*Abies pindrow*	4.56	37.68	86.96	129.20	3.02
3.	*Abies smithiana*	3.89	19.11	71.45	94.45	2.21
4.	*Acacia catechu*	18.00	4.35	0.61	22.96	0.54
5.	*Adina cordifolia*	5.45	12.78	11.56	29.79	0.70
6.	*Albizia species*	11.50	9.69	1.61	22.80	0.53
7.	*Anogeissus latifolia*	67.26	48.94	7.92	124.12	2.90
8.	*Bombax ceiba*	3.87	17.41	15.85	37.13	0.87
9.	*Boswellia serrata*	11.05	41.93	3.65	56.63	1.33
10.	*Buchanania latifolia*	18.55	3.26	0.00	21.81	0.51
11.	*Butea monosperma*	22.48	12.64	1.86	36.98	0.87
12.	*Careya arborea*	19.21	8.06	1.66	28.93	0.68
13.	*Castanopsis species*	10.79	12.53	4.79	28.11	0.66
14.	*Cedrus deodara*	12.05	44.94	61.72	118.71	2.78
15.	*Cleistanthus collinus*	20.38	3.38	0.87	24.63	0.58
16.	*Dalbergia paniculata*	8.45	12.59	3.69	24.73	0.58
17.	*Diospyros melanoxylon*	25.48	27.98	4.55	58.01	1.36
18.	*Ficus species*	8.06	14.08	11.35	33.49	0.78
19.	*Gmelina arborea*	5.88	11.70	4.27	21.85	0.51
20.	*Lagerstroemia parviflora*	26.87	16.27	1.75	44.89	1.05
21.	*Lannea coromandelica*	48.49	47.12	5.80	101.41	2.37
22.	*Madhuca latifolia*	16.72	38.48	16.96	72.16	1.69
23.	*Pinus wallichiana*	19.88	53.64	45.75	119.27	2.79
24.	*Pinus roxburghii*	30.58	92.82	33.11	156.52	3.66
25.	*Pterocarpus marsupium*	14.19	24.99	7.44	46.62	1.09
26.	*Quercus dilatata floribunda*	2.91	6.73	12.41	22.05	0.52
27.	*Quercus leucotrichophora*	28.19	35.04	15.34	78.57	1.84
28.	*Quercus semecarpifolia*	4.57	13.27	26.52	44.36	1.04
29.	*Rhododendron arboreum*	11.63	14.63	3.90	30.16	0.71
30.	*Schima wallichii*	18.00	16.26	2.45	36.71	0.86
31.	*Schleichera trijuga*	10.34	22.12	11.55	44.01	1.03
32.	*Shorea robusta*	124.68	245.82	83.31	453.81	10.62
33.	*Sterculia villosa*	3.56	11.89	8.24	23.69	0.55
34.	*Syzygium cumini*	13.97	33.10	15.94	63.01	1.47
35.	*Tectona grandis*	94.32	86.26	13.96	194.54	4.55
36.	*Terminalia belerica*	6.34	14.66	20.88	41.88	0.98
37.	*Terminalia tomentosa*	53.21	86.47	26.03	165.71	3.88
38.	*Terminalia myriocarpa*	9.07	28.21	24.58	61.86	1.45
39.	*Terminalia paniculata*	9.19	19.71	18.56	47.46	1.11
40.	*Xylia xylocarpa*	17.19	18.63	5.47	41.29	0.97
41.	Rest of Species	536.41	527.41	363.54	1427.36	33.40
Total		**1378.96**	**1804.53**	**1089.98**	**4273.47**	**100.00**

ANNEXURE- III C

Estimated number of stems by species and diameter class in TOF at Country level

(in '000)

Sl.No	Species	Diameter Class (cm)			Total	Percent
		10-30	30-60	60+		
1.	*Acacia arabica*	1,84,396	47,834	1,487	2,33,717	3.83
2.	*Acacia lenticularis*	40,278	7,595	159	48,032	0.79
3.	*Albizia species*	25,150	6,699	343	32,192	0.53
4.	*Artocarpus heterophyllus*	32,289	11,479	2,014	45,782	0.75
5.	*Azadirachta indica*	3,83,927	1,00,485	5,366	4,89,778	8.02
6.	*Bombax ceiba*	28,517	8,281	826	37,624	0.62
7.	*Borassus flabelliformis*	17,079	86,261	1,002	1,04,342	1.71
8.	*Butea monosperma*	1,60,715	30,543	1,218	1,92,476	3.15
9.	*Cocos nucifera*	1,83,766	74,376	436	2,58,578	4.24
10.	*Dalbergia sissoo*	62,720	13,499	408	76,627	1.26
11.	*Eucalyptus species*	1,33,175	14,955	815	1,48,945	2.44
12.	*Ficus bengalensis*	6,484	3,389	4,592	14,465	0.24
13.	*Ficus racemosa*	12,349	6,185	1,856	20,390	0.33
14.	*Ficus religiosa*	10,299	5,257	6,852	22,408	0.37
15.	*Ficus species*	31,241	4,615	1,278	37,134	0.61
16.	*Gmelina arborea*	34,631	4,886	603	40,120	0.66
17.	*Grewia oppositifolia*	98,638	2,745	0	1,01,383	1.66
18.	*Hevea brasiliensis*	1,16,811	5,662	5	1,22,478	2.01
19.	*Holoptelea integrifolia*	31,999	6,349	321	38,669	0.63
20.	*Juglans regia*	8,311	4,066	1,073	13,450	0.22
21.	*Madhuca latifolia*	23,631	30,326	21,628	75,585	1.24
22.	*Mangifera indica*	4,47,196	99,274	26,667	5,73,137	9.39
23.	*Palm oil tree*	451	7,008	3,912	11,371	0.19
24.	*Phoenix sylvestris*	35,823	16,358	35	52,216	0.86
25.	*Pinus wallichiana*	45,212	19,800	2,052	67,064	1.10
26.	*Pinus kesia*	42,170	3,772	0	45,942	0.75
27.	*Pinus roxburghii*	33,001	8,591	429	42,021	0.69
28.	*Pongamia pinnata*	36,069	7,243	1,502	44,814	0.73
29.	*Prosopis cineraria*	50,407	34,028	1,331	85,766	1.40
30.	*Prosopis juliflora*	1,08,511	2,870	215	1,11,596	1.83
31.	*Quercus leucotrichophora*	35,900	6,226	180	42,306	0.69
32.	*Schima wallichii*	45,595	3,669	206	49,470	0.81
33.	*Shorea robusta*	48,976	12,278	2,658	63,912	1.05
34.	*Syzygium cumini*	43,901	16,558	1,620	62,079	1.02
35.	*Tamarindus indica*	23,939	19,813	7,734	51,486	0.84
36.	*Tectona grandis*	1,70,781	11,058	709	1,82,548	2.99
37.	*Terminalia arjuna*	31,225	13,760	1,236	46,221	0.76
38.	*Terminalia belerica*	10,991	4,438	877	16,306	0.27
39.	*Terminalia tomentosa*	59,661	8,466	959	69,086	1.13
40.	*Zizyphus mauritiana*	1,45,433	12,668	527	1,58,628	2.60
41.	Rest of species	19,53,186	2,00,216	21,083	21,74,485	35.62
Total		**49,94,834**	**9,83,581**	**1,26,214**	**61,04,629**	**100.00**

ANNEXURE- III D

Estimated volume by species and diameter class in TOF at Country level

(in million cum)

Sl.No	Species	Diameter Class (cm)			Total	Percent
		10-30	30-60	60+		
1.	*Acacia arabica*	20.39	28.95	3.00	52.34	3.19
2.	*Acacia lenticularis*	4.95	4.79	0.41	10.15	0.62
3.	*Albizia species*	3.73	5.68	1.04	10.45	0.64
4.	*Artocarpus heterophyllus*	4.32	7.20	4.61	16.13	0.98
5.	*Azadirachta indica*	46.03	71.07	16.13	133.23	8.11
6.	*Bombax ceiba*	4.90	7.10	3.05	15.05	0.92
7.	*Borassus flabelliformis*	3.82	56.56	2.04	62.42	3.80
8.	*Butea monosperma*	19.02	22.21	4.42	45.65	2.78
9.	*Cocos nucifera*	35.36	27.70	0.87	63.93	3.89
10.	*Dalbergia sissoo*	12.15	11.64	1.39	25.18	1.53
11.	*Eucalyptus species*	12.88	11.05	2.14	26.07	1.59
12.	*Ficus bengalensis*	0.75	3.35	25.74	29.84	1.82
13.	*Ficus racemosa*	1.39	5.22	7.75	14.36	0.87
14.	*Ficus religiosa*	1.16	4.73	34.18	40.07	2.44
15.	*Ficus species*	4.19	4.11	5.59	13.89	0.85
16.	*Gmelina arborea*	5.52	3.01	2.34	10.87	0.66
17.	*Grewia oppositifolia*	10.56	2.54	0.00	13.10	0.80
18.	*Hevea brasiliensis*	12.51	3.56	0.03	16.10	0.98
19.	*Holoptelea integrifolia*	3.42	4.28	1.12	8.82	0.54
20.	*Juglans regia*	0.92	2.64	4.87	8.43	0.51
21.	*Madhuca latifolia*	2.75	20.04	58.67	81.46	4.96
22.	*Mangifera indica*	48.68	70.35	88.21	207.24	12.62
23.	*Palm oil tree*	0.05	6.22	8.46	14.73	0.90
24.	*Phoenix sylvestris*	6.03	6.54	0.12	12.69	0.77
25.	*Pinus wallichiana*	10.70	19.47	12.28	42.45	2.58
26.	*Pinus kesia*	7.33	2.44	0.00	9.77	0.59
27.	*Pinus roxburghii*	5.63	7.49	1.87	14.99	0.91
28.	*Pongamia pinnata*	3.27	3.77	1.96	9.00	0.55
29.	*Prosopis cineraria*	4.80	16.34	2.49	23.63	1.44
30.	*Prosopis juliflora*	6.66	1.77	0.72	9.15	0.56
31.	*Quercus leucotrichophora*	5.08	4.96	0.65	10.69	0.65
32.	*Schima wallichii*	6.79	3.84	1.14	11.77	0.72
33.	*Shorea robusta*	6.05	9.47	6.35	21.87	1.33
34.	*Syzygium cumini*	5.67	12.67	5.92	24.26	1.48
35.	*Tamarindus indica*	2.99	14.44	25.07	42.50	2.59
36.	*Tectona grandis*	19.22	7.72	6.23	33.17	2.02
37.	*Terminalia arjuna*	4.36	10.18	4.48	19.02	1.16
38.	*Terminalia belerica*	1.53	3.60	3.03	8.16	0.50
39.	*Terminalia tomentosa*	6.43	6.17	2.56	15.16	0.92
40.	*Zizyphus mauritiana*	13.52	6.68	1.11	21.31	1.30
41.	Rest of species	173.65	142.07	77.47	393.19	23.94
Total		**549.16**	**663.62**	**429.51**	**1642.29**	**100.00**

ANNEXURE-IV

States/UTs wise Standard Error for Growing Stock & Tree Cover

Sl.No.	States/Uts	SE% Forest	SE% TOF	SE% Tree Cover
1.	Andhra pradesh	6.10	4.65	6.05
2.	Arunachal Pradesh	14.57	14.10	16.86
3.	Assam	8.94	9.28	7.98
4.	Bihar	12.47	6.82	8.14
5.	Chattisgarh	3.17	7.49	3.87
6.	Delhi	14.15	11.54	11.68
7.	Goa	8.37	10.13	7.35
8.	Gujarat	6.83	3.69	4.05
9.	Haryana	13.03	10.84	11.41
10.	Himachal Pradesh	5.82	7.30	8.84
11.	Jammu & Kashmir	7.26	12.68	10.59
12.	Jharkhand	5.63	9.65	7.19
13.	Karnataka	4.87	7.65	4.56
14.	Kerala	5.96	5.08	8.68
15.	Madhya Pradesh	2.69	6.75	3.71
16.	Maharashtra	4.24	4.14	3.58
17.	Manipur	9.87	11.11	11.14
18.	Meghalaya	10.05	8.76	6.22
19.	Mizoram	14.22	10.33	12.56
20.	Nagaland	14.87	12.98	9.84
21.	Odisha	4.41	7.04	4.53
22.	Punjab	11.59	9.43	12.28
23.	Rajasthan	7.87	4.01	3.41
24.	Sikkim	12.82	9.54	12.70
25.	Tamil Nadu	7.58	4.11	9.19
26.	Telengana	5.21	5.58	6.14
27.	Tripura	8.06	8.46	5.60
28.	Uttar Pradesh	6.51	2.92	9.71
29.	Uttarakhand	5.41	6.20	13.02
30.	West Bengal	9.16	10.11	10.53
31.	A & N Island	13.14	4.65	15.64
32.	Chandigarh	15.73	9.43	12.28
33.	Dadar & Nagar Haveli	13.31	3.69	4.05
34.	Daman & Dui	13.31	3.69	4.05
35.	Lakshadweep	-	4.73	5.22
36.	Puducherry	7.58	4.11	9.19
Total		**7.21**	**6.65**	**6.06**