



PROJECT

**REHABILITATION AND DEVELOPMENT OF MANGROVE FOREST
ECOSYSTEM IN THAI BINH PROVINCE**

DEVELOP SEEDLING STANDARD, APPROVAL STANDARD FOR SILVICULTURAL ACTIVITIES



- *Sonneratia caseolaris* (L.) Engler;



- *Kandelia obovata* Sheue, Liu & Yong;



- *Avicennia marina* (Forssk.) Vierh

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PART I. DEVELOP SEEDLING STANDARD

A. *Sonneratia caseolaris* (L.) Engler

I. Introduction

Scientific name: *Sonneratia caseolaris* (L.) Engler

Local name: Bần chua

Other name: Bần sê

Family: Sonneratiaceae

Distribution and ecological characteristic: Distributed from the Northern region to the Southern region, where warp soil of seaports have a lot of clay and low salinity, rarely surpass 20‰. Tree, with height reaches to 15m or above, diameter at 1.3m can reach 60cm. Thinly scattered canopy; Leaf is single, opposite, elliptic, acumen, usually has red petiole and main vein. Aerial root has radial asparagus shaped, root can grow to the height of 70 cm, diameter of root close to surface can reach 2 - 3 cm.

II. General regulation

2.1. Objective, content

Develop regulation and *Sonneratia caseolaris* seedling standard for forest plantation at site conditions in Thai Binh; contribute to rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.

2.2. Object of application

- Applied for *Sonneratia caseolaris* plantation in mangrove forest planting mission of project entitled Rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.
- Is the basis to develop technical economic norm and also the basis for organization, management, approval and inspection during *Sonneratia caseolaris* plantation at the locality where the project is implemented.

2.3. Term explanation

Terms in this standard are explained as follow:

- **Growing condition:** Some characteristics of site condition, tidal regime, ground exposure time and salinity of seawater.
- **Mangrove ground:** The mangrove grounds at coastal areas, estuaries, or along the rivers, canals with brackish water by daily tidal regime.
- **Physical component:** Divided into 3 types, including Mud (soft or weak mud, tight mud, hard mud), clay (soft clay, tight clay, hard clay), sand (muddy sand).
- **Ground exposure time:** The average hour in day that the area is not inundated by tide.
- **Inundated time:** The average hour in day or the average day in month that the area is inundated by tide.
- **Salinity:** The total content of soluble salts (in gram) contained in 1000g seawater, denoted S (‰ or g/kg).
- **Deep tidal regime:** Ground exposure time of plantation area from 6-8 hours/day, the inundated phenomenon when tidal level is low.
- **Medium tidal regime:** Ground exposure time of plantation area from 8-10 hours/day, the inundated phenomenon only when the tidal level equals the average sea level.

III. Seedling standard

Sonneratia caseolaris is usually planted at stable warp areas, coastal areas, near estuaries. The appropriate salinity is from 5 to 20‰. Growing condition of *Sonneratia caseolaris* is divided into 3 categories: Favorable condition (category I), average condition (category II), and difficult condition (category III).

Depend on each condition, seedling standard must suit specific planting site condition. On the basis of 3 divided planting categories above, but for now, growing condition at 4 communes in project site of Thai Binh Province, include: Thuy Xuan, Thuy Hai (Thai Thuy District) and Dong Long, Dong Hoang (Tien Hai District), is mainly average condition (category II), therefore, *Sonneratia caseolaris* seedling standard is regulated to suit the category with detailed average condition in Table 01:



Figure 01: *Sonneratia caseolaris* seedlings (18 months) are brought on land to drain and plant

Table 01. Growing condition and *Sonneratia caseolaris* seedling standard

No.	Criteria	Average condition (category II)
1	<i>Growing condition</i>	
	Site condition	Hard silt soil or soft clay soil, sink from 5 to 15cm, sandy (sand <50%)
	Tidal regime	Average
	Ground exposure time	8-10 hours/day
2	<i>Seedling standard</i>	
	Pot size	18 x 22 cm
	Age	>12-18 months
	Root diameter	≥ 1.5 cm
	Height	≥ 100 cm
	Quality	Well growth, well-proportioned development, no pestilent insect, verdant leaf, soil pot is not broken.

IV. Method to identify *Sonneratia caseolaris* seedling standard

Randomly measure minimum of 30 seedlings, repeat at least 3 times; root diameter is measured by Palme, correct to mm; height is measured by tape, correct to cm.

Calculate some characteristic value of root diameter and height of seedling such as: mean, maximum value, minimum value, coefficient of variation.

Seedling lot has average value of root diameter, height which meets the standards in Table 01, and has coefficient of variation below 15% is considered to be satisfied for plantation. In case the coefficient of variation above 15%, leave the unsatisfied seedlings and keep tending until they meet the planting standard.

B. *Kandelia obovata* Sheue, Liu & Yong

I. Introduction

Scientific name: *Kandelia obovata* Sheue, Liu & Yong

Local name: Trang

Family: Rhizophoraceae

Distribution and ecological characteristic: Distributed mainly in the North of Vietnam, especially in the North-East and Northern Delta. Tree height from 4 to 8m, adapt to soft muddy soil and sandy mud soil, grow mainly in high or average tidal regime area, prefer high salinity from 20 to 34‰, withstand frozen winter of Northern region and harsh amplitude of temperature. Stump has buttress. Leaves grow opposite, elliptic, have acuminate apex. Flowers bloom actinomorphic with nectary. Fruit has small pear shaped when it is young, smooth fruited, fawn coloured.

II. General regulation

2.1. Objective, content

Develop regulation and *Kandelia obovata* seedling standard for forest

plantation at site conditions in Thai Binh; contribute to rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.

2.2. Object of application

- Applied for *Kandelia obovata* plantation in mangrove forest planting mission of project entitled Rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.

- Is the basis to develop technical economic norm and also the basis for organization, management, approval and inspection during *Kandelia obovata* plantation at the locality where the project is implemented.

2.3. Term explanation

Terms in this standard are explained as follow:

- **Growing condition:** Some characteristics of site condition, tidal regime, ground exposure time and salinity of seawater.

- **Mangrove ground:** The mangrove grounds at coastal areas, estuaries, or along the rivers, canals with brackish water by daily tidal regime.

- **Physical component:** Divided into 3 types, including Mud (soft or weak mud, tight mud, hard mud), clay (soft clay, tight clay, hard clay), sand (muddy sand).

- **Ground exposure time:** The average hour in day that the area is not inundated by tide.

- **Inundated time:** The average hour in day or the average day in month that the area is inundated by tide.

- **Salinity:** The total content of soluble salts (in gram) contained in 1000g seawater, denoted S (‰ or g/kg).

- **Deep tidal regime:** Ground exposure time of plantation area from 6-8 hours/day, the inundated phenomenon when tidal level is low.

- **Medium tidal regime:** Ground exposure time of plantation area from 8-10 hours/day, the inundated phenomenon only when the tidal level equals the average sea level.

III. Seedling standard

Kandelia obovata is planted at estuaries and coastal areas, where have stable warp. The salinity of water area is from 10 to 30‰ (the most appropriate salinity is from 15 to 20‰). Growing condition of *Kandelia obovata* is divided into 3 categories: Favorable condition (category I), average condition (category II), and difficult condition (category III).

Seedling standard must suit specific planting site condition. For now, growing condition at 4 communes in project site of Thai Binh Province, include: Thuy Xuan, Thuy Hai (Thai Thuy District) and Dong Long, Dong Hoang (Tien Hai District), is mainly average condition (category II), therefore, *Kandelia obovata* seedling standard is regulated to suit the category with detailed average condition in Table 02:

Table 02. Growing condition and *Kandelia obovata* seedling standard

No.	Criteria	Average condition (category II)
1	<i>Growing condition</i>	
	Site condition	Hard silt soil or clay soil, sink from 5 to 15cm, sandy rate <50%
	Tidal regime	Average
	Ground exposure time	8-10 hours/day
2	<i>Seedling standard</i>	
	Pot size	18 x 22 cm
	Age	>12-18 months
	Root diameter	≥ 1.0 cm
	Height	≥ 80 cm
	Quality	Well growth, well-proportioned development, no pestilent insect, verdant leaf, soil pot is not broken.



Figure 02: 10-month *Kandelia obovata* seedling

IV. Method to identify *Kandelia obovata* seedling standard

Randomly measure minimum of 30 seedlings, repeat at least 3 times; root diameter is measured by Palme, correct to mm; height is measured by tape, correct to cm.

Calculate some characteristic value of root diameter and height of seedling such as: mean, maximum value, minimum value, coefficient of variation.

Seedling lot has average value of root diameter, height which meets the standards in Table 02, and has coefficient of variation below 15% is considered to be satisfied for plantation. In case the coefficient of variation above 15%, leave the unsatisfied seedlings and keep tending until they meet the planting standard.

C. *Avicennia marina* (Forssk.) Vierh

I. Introduction

Scientific name: *Avicennia marina* (Forssk.) Vierh

Local name: Mắm biển, Mắm biển

Family: Avicenniaceae

Distribution and ecological characteristic: Distributed from the North region to the South region; mainly in the North East, North Central

and West South. Tree has average height from 4 to 6m, can reach to 10m, trunk diameter up to 40cm. There are many pneumatophores with small spike shaped like fingers, high from 10 to 15cm, diameter of 6mm. *Avicennia marina* is pioneer tree, grows primarily in medium or high tide, suitable with salinity from 20 to 35‰. Leaves opposite, ovate, pale green on the upper surface, the underside is gray white and has fuzz, with salt glands on 2 sides. Petiole 5 to 10mm long, hairless. Flowers small, sessile, 6mm diameter, orange, with 4 petals. Fruits are heart shaped, 1.5-2 x 1.5-2.5cm sized, many pale green woolly when young, pale yellow when ripe. Sprouts are in fruits.

II. General regulation

2.1. Objective, content

Develop regulation and *Avicennia marina* seedling standard for forest plantation at site conditions in Thai Binh; contribute to rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.

2.2. Object of application

- Applied for *Avicennia marina* plantation in mangrove forest planting mission of project entitled Rehabilitation and sustainable development of mangrove forest ecosystem in Thai Binh Province.
- Is the basis to develop technical economic norm and also the basis for organization, management, approval and inspection during *Avicennia marina* plantation at the locality where the project is implemented.

2.3. Term explanation

Terms in this standard are explained as follow:

- **Growing condition:** Some characteristics of site condition, tidal regime, ground exposure time and salinity of seawater.
- **Mangrove ground:** The mangrove grounds at coastal areas, estuaries, or along the rivers, canals with brackish water by daily tidal regime.
- **Physical component:** Divided into 3 types, including Mud (soft or weak mud, tight mud, hard mud), clay (soft clay, tight clay, hard clay), sand (muddy sand).

- **Ground exposure time:** The average hour in day that the area is not inundated by tide.
- **Inundated time:** The average hour in day or the average day in month that the area is inundated by tide.
- **Salinity:** The total content of soluble salts (in gram) contained in 1000g seawater, denoted S (‰ or g/kg).
- **Deep tidal regime:** Ground exposure time of plantation area from 6-8 hours/day, the inundated phenomenon when tidal level is low.
- **Medium tidal regime:** Ground exposure time of plantation area from 8-10 hours/day, the inundated phenomenon only when the tidal level equals the average sea level.
- **Low tidal regime:** Ground exposure time of plantation area from 10-16 hours/day, the inundated phenomenon only when the tidal level is high.

III. Seedling standard

Avicennia marina is natural distributed at the tidal grounds near coastal areas and estuaries. *Avicennia marina* can grow on many types of soil, and since it is the fixed pioneer species, it usually distributed at sandy ground. The appropriate salinity for *Avicennia marina* fluctuates from 5 to 20‰. Growing condition of *Avicennia marina* is divided into 3 categories: Favorable condition (category I), average condition (category II), and difficult condition (category III).

Seedling standard must suit specific planting site condition. For now, growing condition at 4 communes in project site of Thai Binh Province, include: Thuy Xuan, Thuy Hai (Thai Thuy District) and Dong Long, Dong Hoang (Tien Hai District), is mainly average condition (category II), therefore, *Avicennia marina* seedling standard is regulated to suit the category with detailed average condition in Table 03

Table 03. Growing condition and *Avicennia marina* seedling standard

No.	Criteria	Average condition (category II)
1	<i>Growing condition</i>	
	Site condition	Soft clay soil or Soil with rate of sand grain from 30 to 50%.
	Number of inundated day	Average tidal regime from 10 to 19 days/month
	Ground exposure time	9-14 hours/day
	Site formation	lb
2	<i>Seedling standard</i>	
	Pot size	18 x 22 cm
	Age	>8-10 months
	Root diameter	≥ 0.6 cm
	Height	≥ 40 cm
	Quality	Well growth, well-proportioned development, no pestilent insect, verdant leaf, soil pot is not broken.



Figure 03: *Avicennia marina* seedlings (10 months) meet the planting standard and brought on land to drain before transportation

IV. Method to identify *Avicennia marina* seedling standard

Randomly measure minimum of 30 seedlings, repeat at least 3 times; root diameter is measured by Palme, correct to mm; height is measured by tape, correct to cm.

Calculate some characteristic value of root diameter and height of seedling such as: mean, maximum value, minimum value, coefficient of variation.

Seedling lot has average value of root diameter, height which meets the standards in Table 03, and has coefficient of variation below 15% is considered to be satisfied for plantation. In case the coefficient of variation above 15%, leave the unsatisfied seedlings and keep tending until they meet the planting standard.

PART II. DEVELOP APPROVAL STANDARD FOR SILVICULTURAL ACTIVITIES

I. Forest planting approval

1.1. Approval process, content and method

1.1.1. Approval for planting preparation (Step 1)

Approval content: Check the whole area according to designed document which were approved by authority, including:

- Clearing vegetation;
- Digging hole: interval space, size (if available);
- Covering hole (if available).

Approval result of each planting plot of each contracted household is recorded in template 01; approval result of planting forest preparation of whole project is recorded in template 02.

1.1.2. Approval after plantation (Step 2)

a) Approval time:

- Step 1: Check after plantation 2 months;

- Step 2: Re-check unsatisfied area in step 1; step 2 is carried out after replantation 1 month.

b) Approval content

- Approval quantity: Technical staffs of the allotment check directly with the contracted, carry out field approval on each plot's area, locate boundaries and compare them with the design map, delineate and identify the scale performed by evaluation or direct measurement.

- Approval quality: Technical staffs of the allotment check the technical planting standards are prescribed in lump-sum contract:

For comprehensive plantation: Measuring whole area or standard plot.

If measure standard plot, the area of each plot is 100m², set up on forest's representative line. The minimum number of standard plot is regulated as follow: Forest lot area ≤ 3ha: 10 lots; Forest lot area > 3 - 4 ha: 15 plots; Forest lot area > 4 - 5 ha: 20 plots

For band plantation: Measuring total trees on planting band area.

Approval result of each plot is recorded in template 03; result of forest planting of whole project is recorded in template 04; (with all signatures of participated parties and contracted households).

1.2. Approval criteria, dealing measure

- Approval criteria for planting preparation

Criteria	Approval content	Assessing standard	Dealing method
1. Clearing vegetation	Clearing vegetation techniques	- Satisfied with design in contract	Satisfied the approval standard
		- One of the contents does not satisfied with design in contract	Clear again, otherwise do not dig hole

2. Digging hole	Interval space, size according to design in contract	- Satisfied with the required interval space and size	Satisfied with the approval standard
		- Not satisfied with the required interval space and size	Not satisfied with the approval standard, dig again to the correct size, otherwise do not plant forest

- Planting approval criteria (primary approval)

Criteria	Approval content	Assessing standard	Evaluation, conclusion
1. Area	Actual plantation area compared to planned area according to contract	Enough plantation area	Approved and paid 100%
		Actual plantation area < 100%	Approved and paid according to real plantation area
2. Species	Check planting species	Correct species, seedlings reach prescribed standards	Approved
		Incorrect species	Unapproved, report to authorities for consideration
3. Survival rate	Survival rate is good compared to the designed density in contract	$\geq 70\%$	Approved and paid 100% contract value
		50% to less than 70%	Approved and paid according to regulation on survival rate, this area is put into tending plan in the second year, replanting to fill the prescribed density ($\geq 70\%$)

II. Supplementary forest planting approval

- a) Approval process is carried out as in 1.1.
- b) Approval content, method: implement as planting approval in 1.1.
- c) Supplementary planting approval criteria

Criteria	Approval content	Dealing method
1. Executed area	Enough area according to contract	Approved 100%
	Not enough area	Approved according to executed area
2. Supplementary forest planting	Implement as prescription in 1.2	

III. New planting tendance approval

3.1. Approval process

Approval process is prescribed as follow:

- Step 1: check the impact of technical tendance is prescribed at the first time, second time... as a basis for step 2. Approval time is carried out as soon as all tasks are finished.
- Step 2 (primary approval): re-check the last time for all quantity, quality of tending plots base on approval result in step 1.

Approval time is carried out as soon as the contracted has completed all the technical tendance impacts are prescribed in lump-sum contract.

Approval result in step 1 is recorded in template 05; approval result in step 2 is recorded in template 06.

3.2. Approval content, method

- Approval quantity: carried out as in 1.1.
- Approval quality: check the technical tendance criteria.

Vegetation clearing, trash picking, tree bristling up, pile arranging, shipworms removing: survey whole area, compare to prescribed technical standard in contract, and evaluate proportion of implementation quality. Survival rate: carried out as in 1.2.

3.3. Approval criteria

Criteria	Approval content	Assessing standard	Dealing method
1. Clearing vegetation	Vegetation clearing area satisfies technical design	$\geq 90\%$	Approved and paid 100%
		$< 90\%$	Unapproved
2. Digging, pilling	Trash picking, shipworms removing area satisfies technical design	$\geq 90\%$	Approved and paid 100%
		$< 90\%$	Unapproved
3. Survival rate	Well survival rate after replanting.	- $\geq 60\%$ compared to designed planting density (second year) - $\geq 50\%$ compared to designed planting density (from the third year)	Approved and paid 100%
		50% to $< 60\%$ compared to designed planting density (second year)	Approved and paid according to tree survival rate
		$< 50\%$ designed planting density	Unapproved, report to authorities for consideration.

IV. Supplementary planting tendance approval

Supplementary planting tendance approval: Implement as sections 3.1, 3.2 and 3.3.

TEMPLATES

Template 01

Name of organization

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

APPROVAL REPORT ON PLANTING/SUPPLEMENTARY PLANTING PREPARATION

(Step 1 – Internal approval for each contracted household)

1. Name of project:
2. Location: (name of hamlet, commune, district, province)
3. Approval parties:
 - The allotment:
 - + Mr/ Mr.s:
 - The contracted:
 - + Mr/ Mrs:
- New planting/ Supplementary planting plots: In lot:....., plot..... subzone.....
4. Approval result

Content	Area (ha)		Vegetation clearing (ha)		Hole digging		Hole covering		Approved area (ha)	Note
	Design	Exe cute	Satisfi ed	Unsati sfied	Satisfi ed	Unsati sfied	Satisfi ed	Unsatis fied		
1	2	3	4	5	6	7	10	11	12	13
1. General approval result										
2. Actual measurement										
Thorough measurement result										
Or standard plot measurement result										
- OTC1										
- OTC2										
- OTC3										
- OTC4										

5. Conclusion, recommendation:

.....
.....

THE ALLOTMENT

Day month year
THE CONTRACTED

Template 02

Name of organization

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

**GENERAL REPORT ON APPROVAL RESULT FOR
PLANTING/SUPPLEMENTARY PLANTING PREPARATION**
(Summary of approval step 1 for whole project)

1. Name of project:
2. Location: (name of hamlet, commune, district, province)
3. Approval parties:
+ Allotment's representative (Party A):
.....
+ Contracted households (Party B):
4. Approval result (from the data in template 1: approval for each contracted household)

No.	Contracted organization/Individual	Name of subzone	Name of plot	Name of lot	Name of allotted plot	Area (ha)		Vegetation clearing (ha)		Hole digging		Hole covering		Approved area (ha)	Note
						Design	Exe cute	Satisfi ed	Unsati sfied	Satisfi ed	Unsati sfied	Satisfi ed	Unsati sfied		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

5. Conclusion, recommendation

.....
.....

Day month year

APPROVAL PARTIES
(Note all the participated parties)

REPRESENTATIVE OF LOCAL AUTHORITY
(If available)

Template 03

Name of organization

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

APPROVAL REPORT ON PLANTING/SUPPLEMENTARY PLANTING RESULT

(Step 1 - Internal approval for each contracted household)

1. Name of project:
2. Location: (name of hamlet, commune, district, province)
3. Approval parties:
 - The allotment:
 - + Mr/ Mr.s:
 - The contracted:
 - + Mr/ Mrs:
- New planting/ Supplementary planting plots: In lot:....., plot.....
subzone.....
4. Approval result

Content	Area (ha)		Species		Density (tree/ha)		Good survival		Approved area (ha)	Payment rate (%)	Note
	Design	Execute	Correct	Incorrect	Design	Actual planting	Quantity	Rate (%)			
1	2	3	4	5	6	7	8	9	10	12	13
1. General approval result											
2. Actual measurement											
Thorough measurement result											
Or standard plot measurement result											
- OTC1											
- OTC2											
- OTC3											
- OTC4											

5. Conclusion, recommendation

.....
.....

THE ALLOTMENT

Day month year
THE CONTRACTED

Template 05

Name of
organization

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

APPROVAL REPORT ON FOREST PROTECTION INYEAR,TIME
(Step 1 – interval approval of tending time (1, 2...) for each contracted household)

1. Name of project:
2. Location: (name of hamlet, commune, district, province)
3. Approval parties:
 - The allotment:
 - + Mr/ Mr.s:.....
 - The contracted:
 - + Mr/ Mrs:.....
4. Approval result

No.	Subzone	Plot	Lot, standard plot	Area (ha)		Tending area (ha)		Picking trash, grass...		Survival after beating up		Approved area(ha)	Note
				Design	Execute	Correct	Incorrect	Correct	Incorrect	Tree/ha	Rate (%)		
1	2	3	4	5	6	7	8	9	10	13	14	15	16
1			Lot...										
			O1										
			O2										
			...										
Total designed and executed area, approved area				

5. Recommendation:

.....

THE ALLOTMENT

Day month.... year
THE CONTRACTED

Template 06

Name of organization

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom - Happiness

GENERAL REPORT ON FOREST TENDING APPROVAL IN YEAR

(Step 2 – primary approval for whole project)

1. Name of project:
2. Location: (name of hamlet, commune, district, province)
3. Approval parties:
+ Mr/ Mrs:.....
+
4. Approval result

No.	Name of organization, household, individual	Subzone	Plot	Lot	Area (ha)		Tending area (ha)		Picking trash, grass...		Survival after beating up		Approved area	Signature of contracted organization, household, individual	Note
					Design	Execute	Correct	Incorrect	Correct	Incorrect	Tree/ha	Rate (%)			
1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18
				Lot											
...				...											
Total designed and executed area, approved area.															

5. Recommendation:

.....
.....

APPROVAL PARTIES
(Note all the participated parties)

Day month year
REPRESENTATIVE OF LOCAL AUTHORITY
(If available)



DỰ ÁN PHỤC HỒI VÀ PHÁT TRIỂN BỀN VỮNG HỆ SINH THÁI RỪNG NGẬP MẶN Ở TỈNH THÁI BÌNH

BAN QUẢN LÝ DỰ ÁN TRUNG ƯƠNG

Phòng 211 nhà A2, số 21A Ngọc Hà,
Ba Đình, Hà Nội

BAN QUẢN LÝ DỰ ÁN THÁI BÌNH

Số 1 Lê Lợi, thành phố Thái Bình

