



Department of Environment and Natural Resources
Ecosystems Research and Development Bureau

**Status, Opportunities and Challenges in
Implementing the Quality Planting Materials
(QPMs) Project of the National Greening
Program and its Expansion**

Rationale

- Some 2 billion hectares of **degraded forestlands** worldwide (GPFLR, WRI, SDSU and IUCN 2011), about 270 million hectares in Asia (ITTO 2002) and around 7 million hectares in the Philippines (EO 193) are providing **opportunities for restoration**.
- Such trend and magnitude calls worldwide attention. Examples of **restoration efforts** are the ff:
 - 150 million hectares globally by 2020 as per Bonn Challenge in Germany (FAO/RECOFTC 2016)
 - 20 million hectares by 2020 in Asia-Pacific Region (APEC 2015)
 - 7.1 million hectares in the Philippines (EO 193)



Challenges

- Pulhin *et al.* (2006) stressed the need of **high quality planting materials** to ensure success of forest restoration effort.
- As such, the ERDB-DENR established 75 Seed Sources (SPAs and IPTs) and constructed 50 clonal nursery facilities (22 for DENR and 28 for partnered SUCs) to **produce Quality Planting Materials** (QPMs) in support of the NGP (EO 26) and its expansion (EO 193) based on section 8.7 of the DENR Memorandum Circular No. 2011-01.
- This presentation summarizes the status, opportunities and challenges



Status

- Established 75 Seed Sources
- Collected nearly 6 million seeds nationwide in 2018
- Seeds were processed and stored at 6 Forest Tree Seed Centers of the country



A. Seed Sources (SPAs and IPTs)

Table 1. Regional Established SPAs and IPTs, 2018

Region	Seed Sources		Seeds Collected from Jan to Sep 2018 (x100,000)	No. of Species
	SPA	IPT		
CAR	1	5	4.03	8
1		4	1.14	8
2	1	4	9.61	10
3	7	-	5.99	6
4A	-	5	0.25	12
4B	1	4	1.38	5
5	4	2	1.96	7
6	2	4	4.89	8
7	3	1	6.41	4
8	4	2	0.14	5
9	3	-	0.61	3
10	-	5	1.49	mixed species
11	-	4	10.61	mixed species
12	2	2	0.80	6
13	3	2	10.43	6
Grand Total	31	44	59.76	

Status

B. Clonal Nursery Facilities

- Constructed a total of 50 clonal nursery facilities (DENR managed – 22; partnered SUCs – 28)
- In 2018, sixteen (16) out of 22 nurseries have been turned-over to Regional Offices
- While the remaining 6 facilities are being managed by the ERDB



Status

- Produced a total of some **83 Million QPMs**, wherein about:
- 5 Million (clones)
- 8 Million (Wildlings)
- 40 Million (seeds)
- 30 Million (unspecified)



C. QPMs Production

Table 2. QPMs Produced from 2011 to 2017 (million seedlings)

Region	QPM Production							Total QPM Produced (2011-2017)
	2011	2012	2013	2014	2015	2016	2017	
CAR	1.62	1.43	2.26	0.56	0.08	0.20	0.07	6.22
1	1.00	1.34	1.74		0.12	0.11	0.08	4.39
2	1.75	1.29	1.86	0.81	0.36	0.27	0.07	6.41
3	1.13	1.17	1.93		0.16	0.19	0.13	4.71
NCR	0.25	0.07	0.08	0.02	0.02	0.02	0.03	0.49
4A	2.17	1.22			0.12	0.14	0.06	3.71
4B	1.39	1.12	1.71		0.04	0.05	0.03	4.34
5	1.00	1.15	1.68	1.15	0.08	0.14	0.05	5.25
6	1.10	1.19	2.17		0.19	0.36	0.24	5.25
7	1.24	1.22	1.62	1.27	0.17	0.14	0.07	5.73
8	1.50	1.18	1.88	0.28	0.08	0.17	0.10	5.19
9	1.05	1.09		0.51	0.10	0.08	0.02	2.85
10	1.50	1.15		0.50	0.20	0.09	0.04	3.48
11	2.00	1.52	3.02	2.07	0.25	0.17	0.07	9.10
12	1.09	1.33	1.70	1.25	0.45	0.21	0.05	6.08
13	1.65	1.55	2.52	1.16	0.26	0.19	0.08	7.41
ERDB MO	0.82	1.07		0.55	0.17	0.17	0.03	2.81
GRAND TOTAL	22.26	20.09	24.17	10.13	2.85	2.70	1.22	83.42

Status

- Outplanted a total of 4,059,420 cloned planting materials nationwide



Photo from GreenEarth Heritage Foundation, Inc

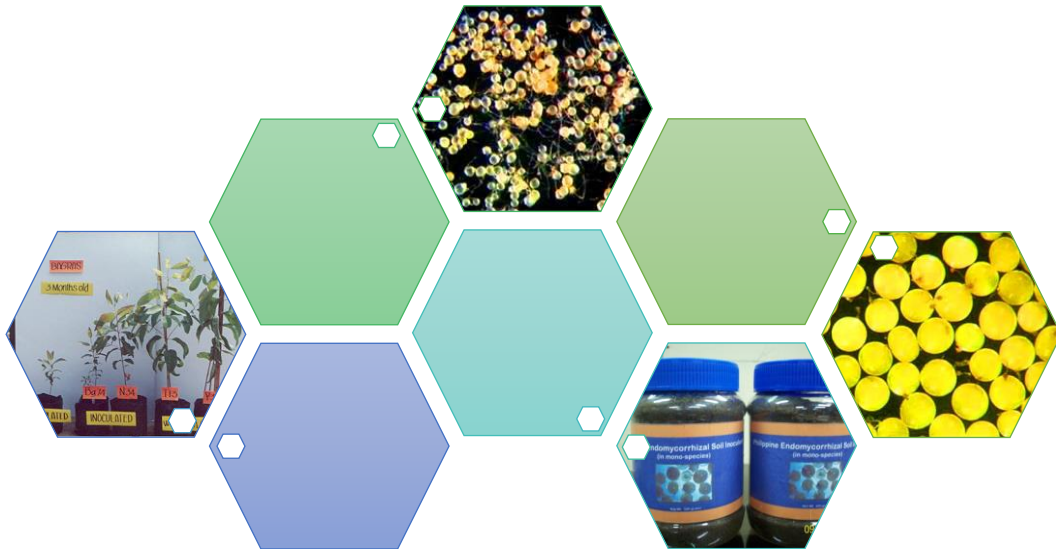
D. QPMs Outplanted

Table 3. QPMs Planted Nationwide from 2015 to 2017

Region	No. of Hectares Planted	No. of QPMs Planted (x1000)
CAR	456	229.46
1	503	251.70
2	112.95	56.48
3	470	241.76
NCR	117.5	59.19
CALABARZON	499.9	250.40
MIMAROPA	60	30.00
5	383	151.50
6	1326	509.45
7	646.62	274.75
8	500	252.00
9	114.9	57.45
10	400	289.79
11	745	402.51
12	1060	534.00
13	930	469.00
Grand Total	8324.87	4059.42

Status

- Produced a total of 3,777.97 tons of Hi-Q Vam 1
- Distributed some 1,246 tons nationwide



E. Hi-Q Vam 1 Distributed

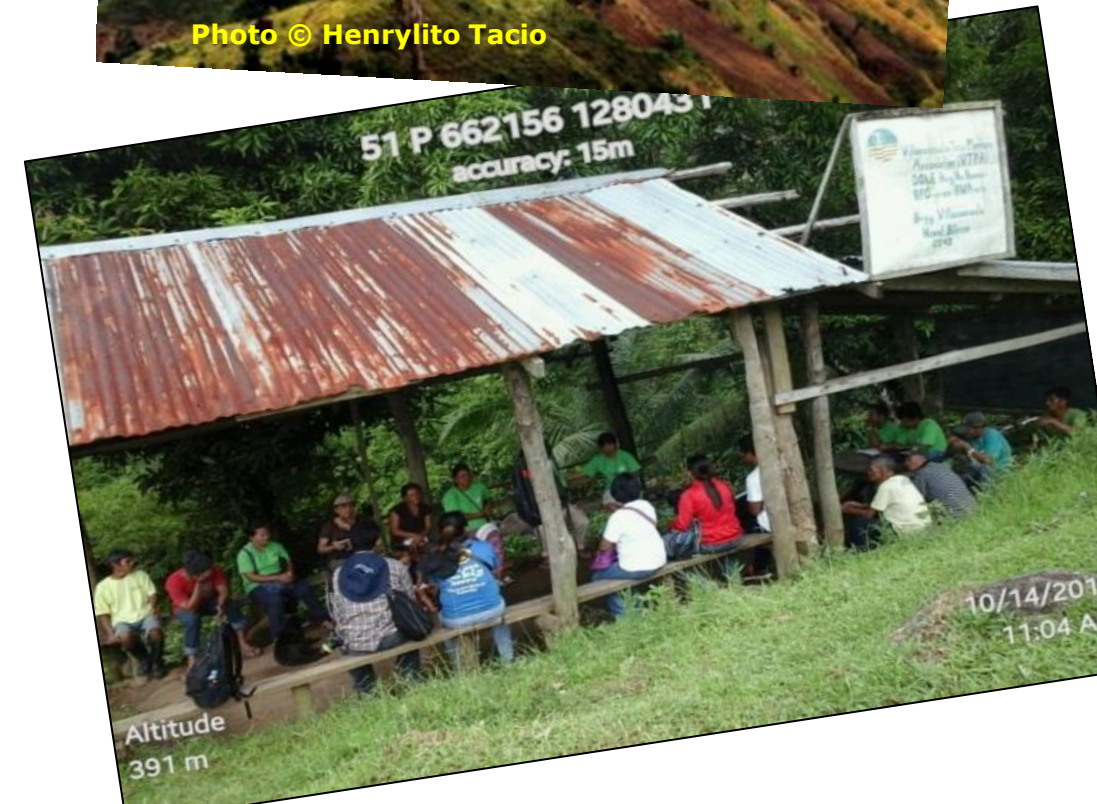
Table 4. Hi-Q Vam 1 Distributed Nationwide

Year	Hi-Q Vam 1 Distributed (tons)
2012 ^a	-
2013 ^b	-
2014	228.42
2015	235.35
2016	239.35
2017	249.62
2018	293.97
Total	1,246.71

a & b- Construction of Hi-Q Vam 1 Facilities

Opportunities

- Identified some 7.1 million hectares of degraded forestland that offers opportunities for restoration
- Involvement of the community, particularly in the identification of preferred indigenous forest tree species to be produced



Challenges (Issues and Concerns)

- Appropriate silvicultural intervention to established SPAs and IPTs
- Change/movement of trained focal person
- Choice of Species
- Continuous Participation of the partnered SUCs in the Production of QPMs



Next Step

- **Revisiting** the existing policy and guidelines (i.e. DAO-2010-11)
- Intervention of the ERDB-DENR to **balance the choice of species** of the community and POs to address not only the socio-economic, but the environmental aspect of the program
- **Leveling-off** with the field Offices to address the issue of frequent changes and movements of trained focal personnel.
- Continuous **monitoring** and provisions of necessary **technical assistance** in the management of SS and turned-over clonal nurseries
- Creation of **composite team** (ERDB and FMB) to conduct Monitoring and Evaluation of SS and clonal nurseries

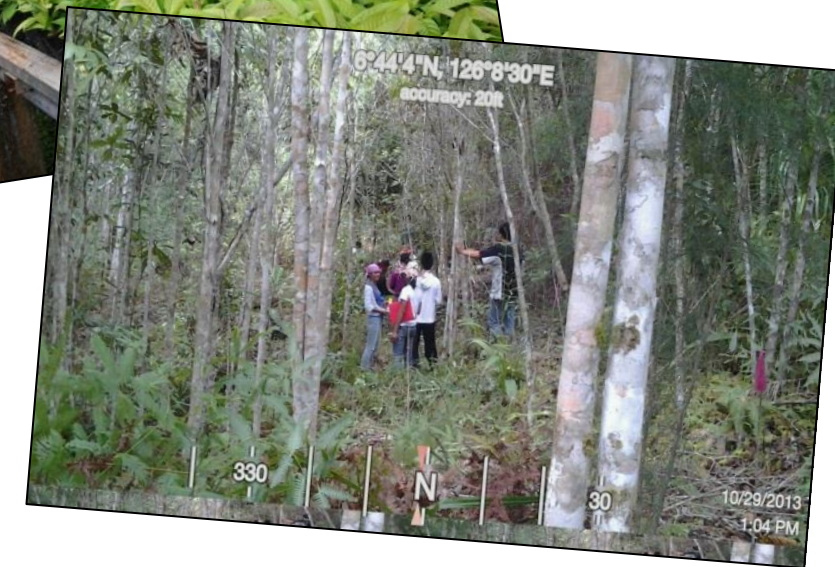


Republic of the Philippines
Department of Environment and Natural Resources
Visayas Avenue, Diliman, Quezon City
Tel Nos. 929-6626 to 29; 929-6633 to 35
926-7041 to 43; 929-6252; 929-1669
Website: <http://www.denr.gov.ph> / E-mail: web@denr.gov.ph

MAY 05 2010

DENR ADMINISTRATIVE ORDER
No. 2010 – 11

SUBJECT: REVISED REGULATIONS GOVERNING FOREST TREE SEED AND SEEDLING PRODUCTION, COLLECTION AND DISPOSITION



THANK YOU!