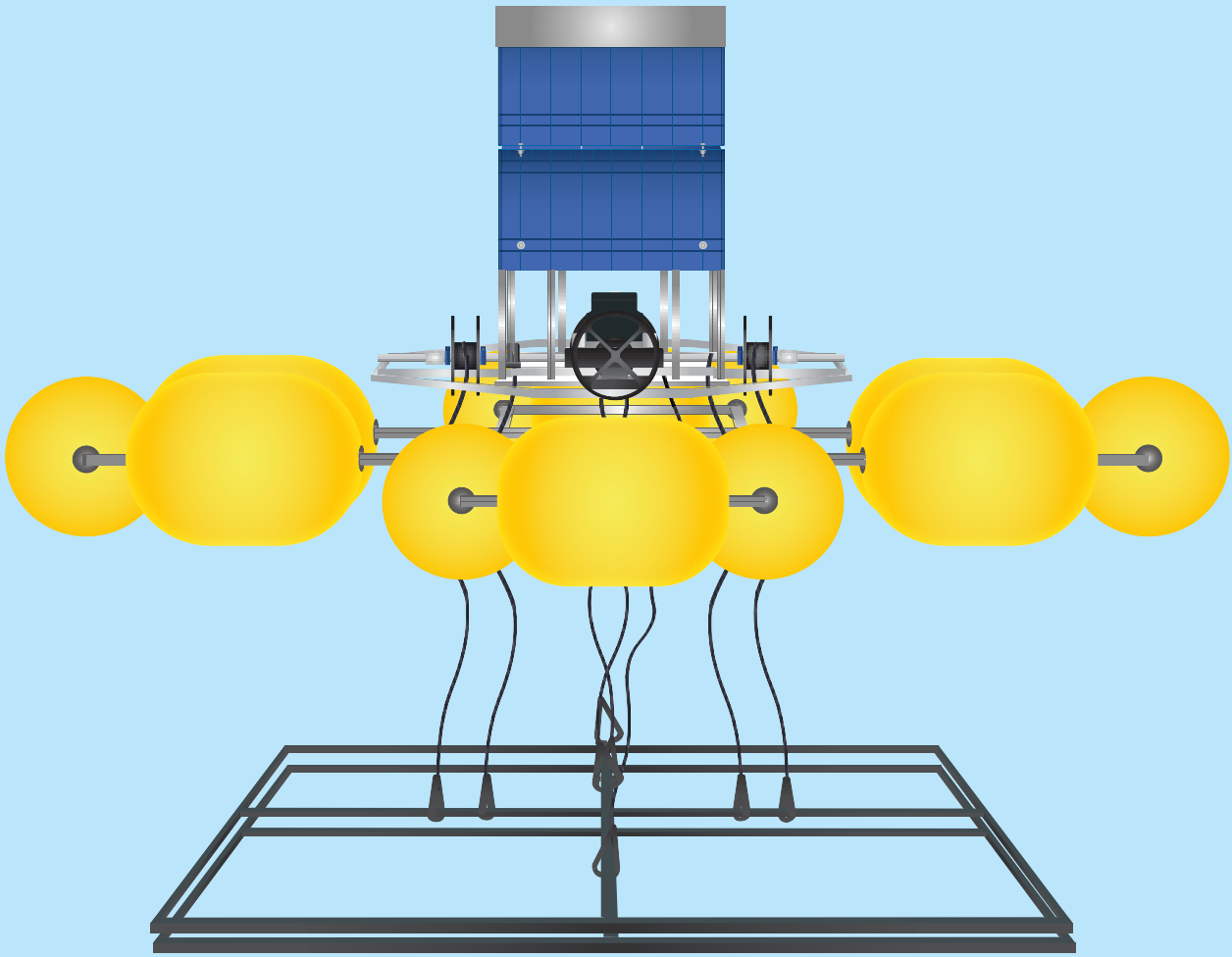
Bariflolabs

DEPLOYMENT SHEET



INVENTORY LIST

S. NO	MATERIALS	MATERIAL PARTS	QUANTITY (For 5 Devices)
1.	Gear box		
		main input shaft	5 nos
		main input bush	5 nos
		pinion input shaft hole & tap	20 nos
		output shaft	20 nos
		grease	3 kg
2.	Transmission		
		Aluminum shaft	20 nos
		Pulley wheel	20 nos
		belts 5m	20 nos
		Spporting Belt 4.5M	20 nos
		pulley wheel side clamp	40 nos
		shaft bearing	40 nos
3.	Structural Items		
		Top frame	5 nos
		Floater Frame 20X20 Aluminium Pipe	10 mtr
		1.5X1.5MBase frame MS 20X20 SQR PIPE	30 mtr
		1.5X1.5M Aluminium Rod	30 mtr
		Al profile rod connector	5 mtr
		Motor stand	5 nos
4.	Pneumatic Items		
		10 mm pipe	125 mtr
		12 mm pipe	10 mtr
		16mm pipe	20 mtr
		10 mm spring pipe	5 nos
		3 way connector 16x16x12 mm	20 nos
		3 way connector 12x12x10 mm	10 nos
		3 way connector 10x10x10 mm	5 nos
		2 way connector 10x10 mm	5 nos
		Porous pipe	10 mtr
		compressor L connector 10 mm	5 nos
		Pneumatic connector with compressor 10 mm	5nos
5.	Accessories		
		2 inch ss 6 mm dia Nut and bolt	200 nos
		1.5 inch ss 6 mm dia Nut and bolt	80 nos
		1 inch ss 6 mm dia Nut and bolt LN key head	30 nos
		1.5 inch ss 4 mm dia Nut and Bolt	20 nos
		1 inch ss 3 mm dia Nut and Bolt	60 nos
		washer 6 mm id	90 nos
		washer 4 mm id	40 nos
		washer 3 mm id	70 nos
		plastic zip tie	60 nos
		metal zip tie	60 nos
		3 inch 6 mm dia nut & bolt (GI)	20 nos

PACKAGE FOR DEPLOYMENT OF AERATION DEVICE

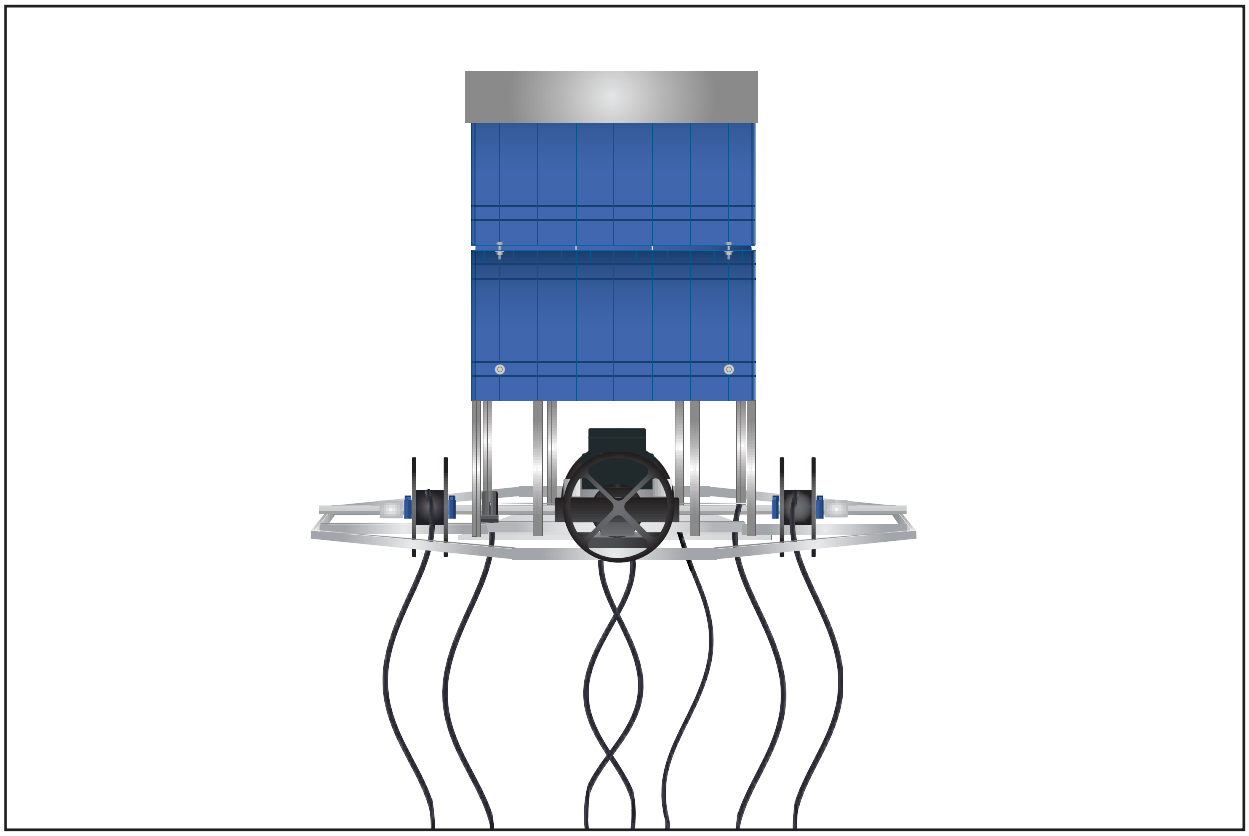
For the Barbil Project:

1.**Biranchi is responsible for the device assemble in deployment. Jitu is also responsible for device deployment in pond.**

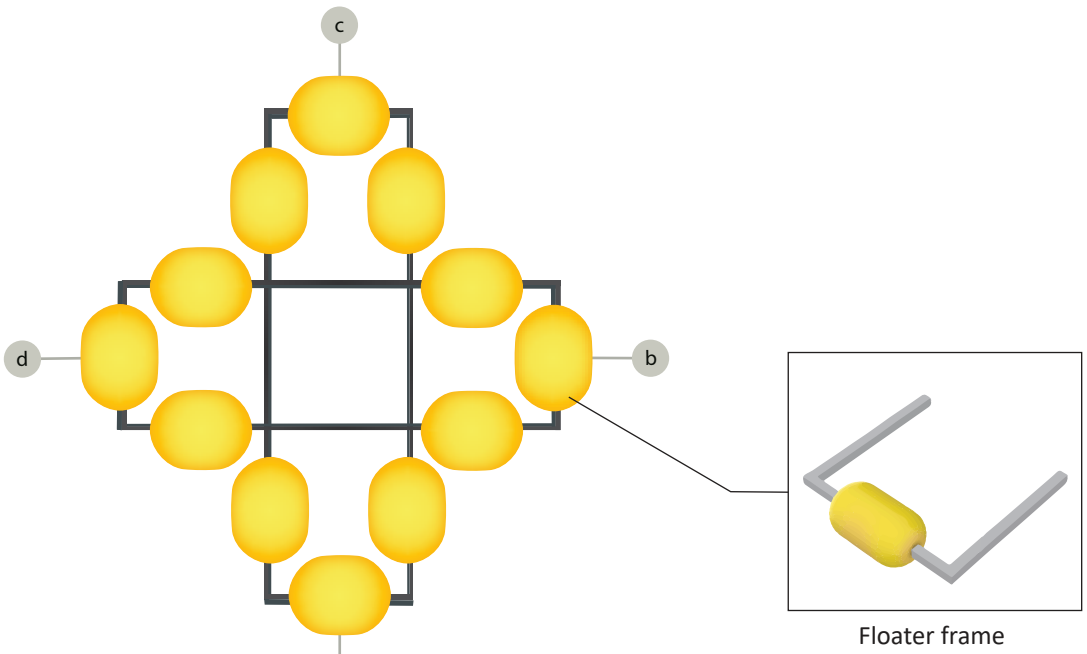
This package contains the following assebled materials as follows:

a. Aeration Device top frame x 1
b. Floater Frame x 4
c. 1.5m Base Frame x 2
d. Motor Housing x 1
e. Nylon Plate x 1
f. Gear Box x 1
g. Supporting Belt

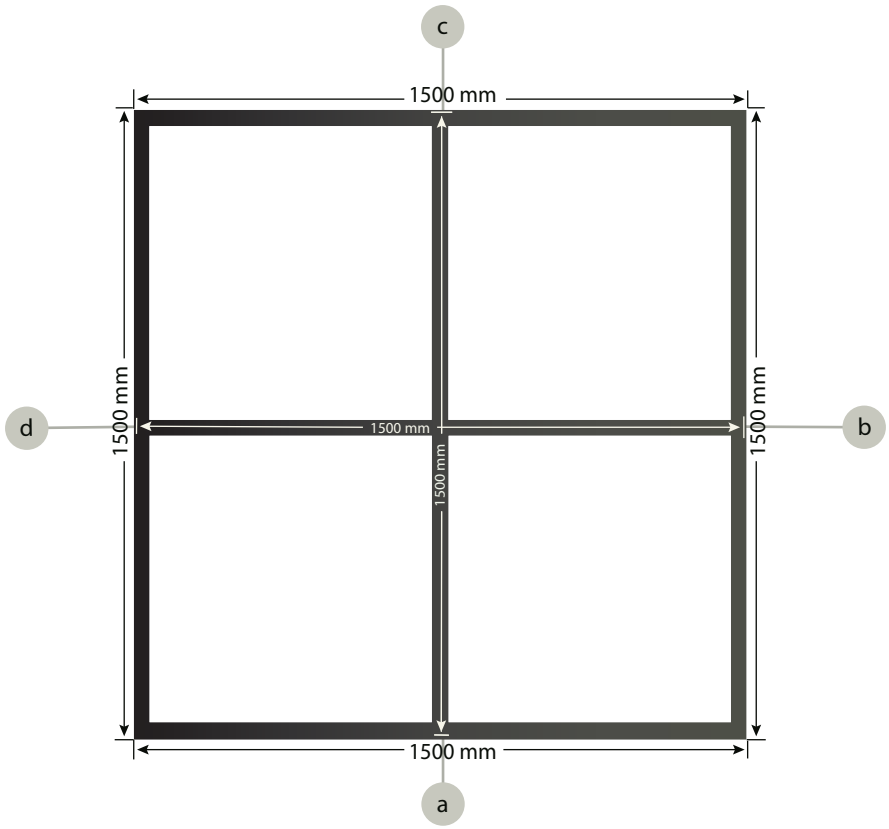
a. Aeration Device top frame :



b. Floater Frame:



c. 1.5m Base Frame :



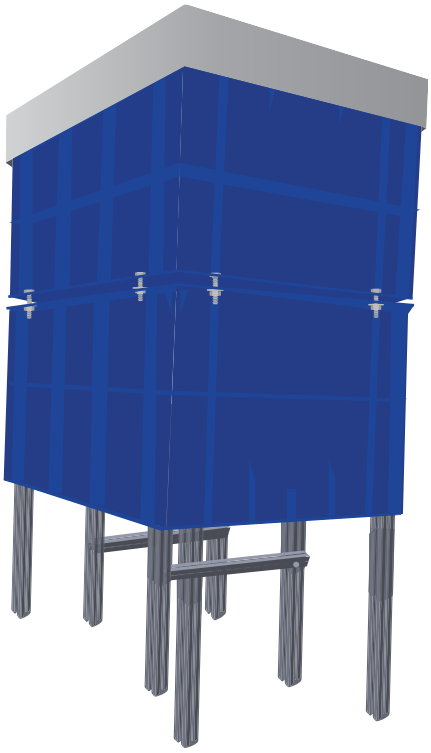
*All Frames should me maintained as per the design with labling as shown in the figure.

* Two 1.5 Frames are attached one above the another.

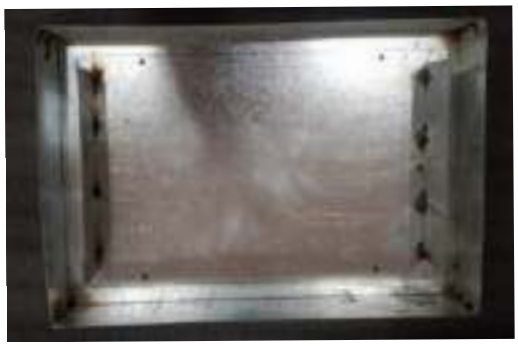
* Check the top frame gear lock hole of all the devices.Don't hole again on nylon plate.Its already centre aligned with gear box locking hole.

* Assemble with proper leveled modules of Gear box and motor housing.Before connecting the motor housing with nylon plate , attach the panel box on it with nut and bolt as shown in figure.

d. Motor Housing :



Housing Cap (Top View)



Housing Cap (Bottom View)

*Check the position of housing stand on nylon plate.
Please note that the locking position should not disturb any other mechanism of module.

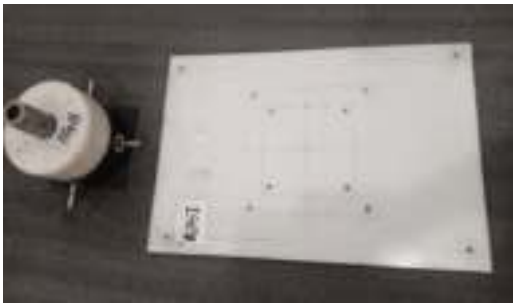
e. Nylon Plate :

Isometric View

Top View

Assembling process of big nylon plate for new housing:

1. Name that the same levelled Gear box is with Nylon plate.



Isometric View

Top View

2. Attach the Gear box with the Nylon plate and remove all bearings, nut and bolt which is nearest to Gear box.

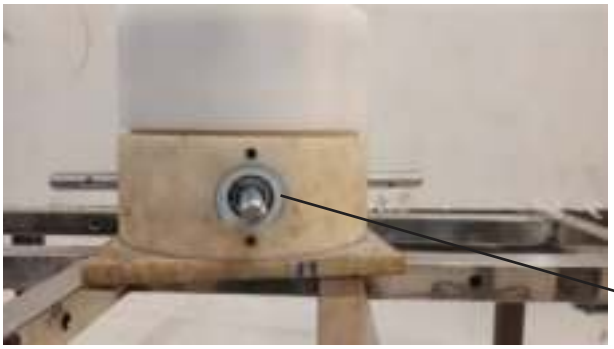
3. Make hole on nylon plate through the bearings hole position.

4. Set nut and bolt with Nylon Plate. Make sure all nut and bolts are tightly locked.

f. Gear Box :

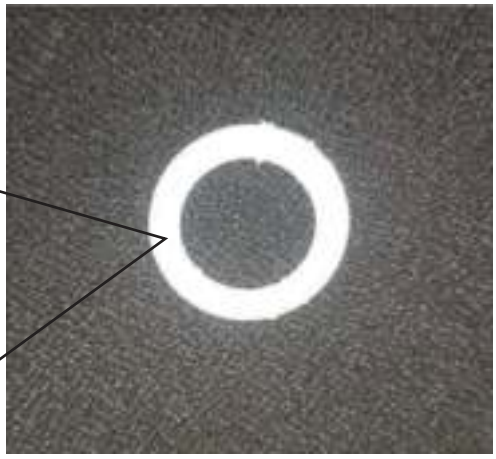
Gear Box Cap Isometric View

Gear Box Cap Top View



Gear Box Front view

Gear Box Isometric view



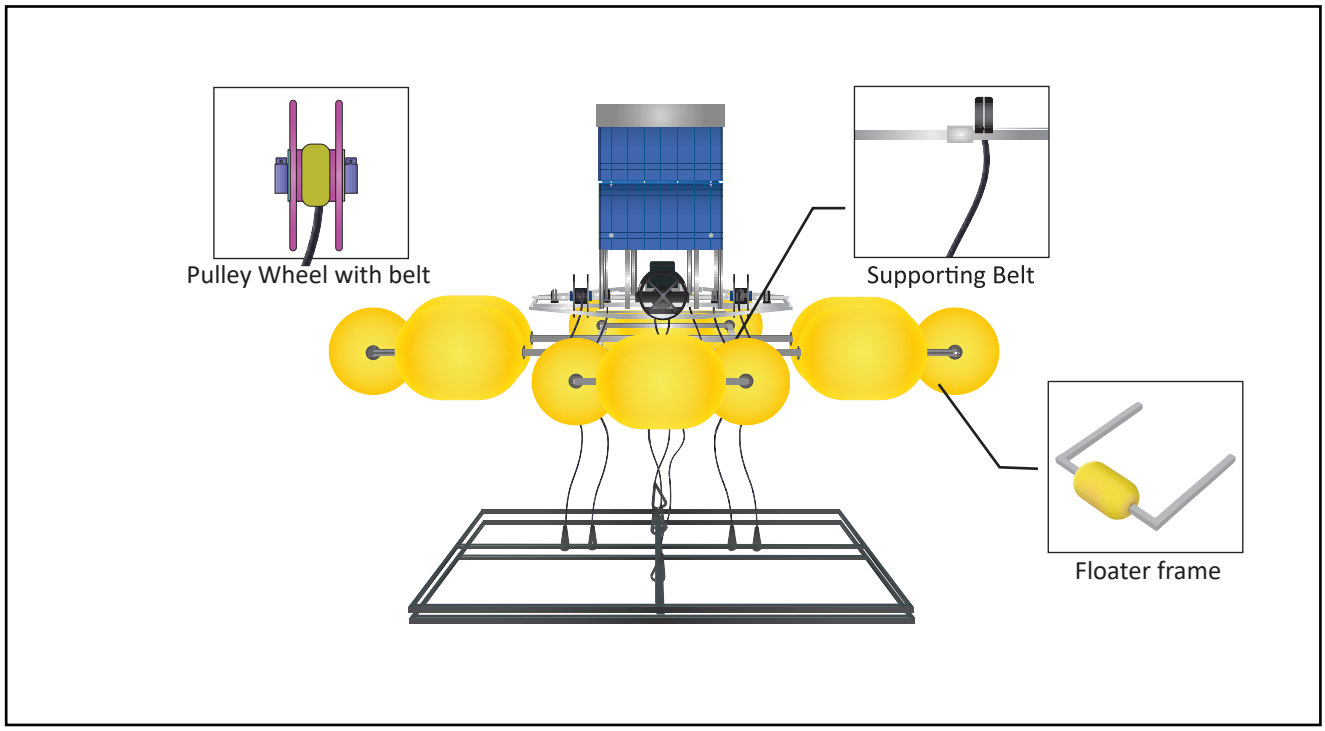
Rust Seal

*Gear Box should be handled with care as shown in the figure.

g. Supporting Belt :

* It is connected with the top frame, bottom frame as well as the pulley wheel belt attachment.

* The position of supporting belt is on the base frame with respect to top frame's nearest bearing from gear box.That position should be fixed for hole.



Aeration Device (Front View)

Steps for Assembling:

1.Connect the top frame and base frame using belt (Belt size should be maintained as per the requirement of pond depth.

2.For connecting belt with base frame 4 mm hole should be made with equal distance of pulley wheel from gear box of the top frame.

3.Four sets of Floater frame are assembled and attached to the top frame.

4.Assemble with proper leveled modules of Gear box and motor housing.

*All the devices must be air tested before Deploying .