CADANGAN UNTUK MENYELENGGARA PERALATAN SISTEM PENGAWASAN KUALITI AIR SECARA TELEMETRI-SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) UNTUK LIMA (5) BUAH STESEN PENGAWASAN SEDIA ADA TASIK PUTRAJAYA

NO.TENDER : PPj/T/JR/7/2021

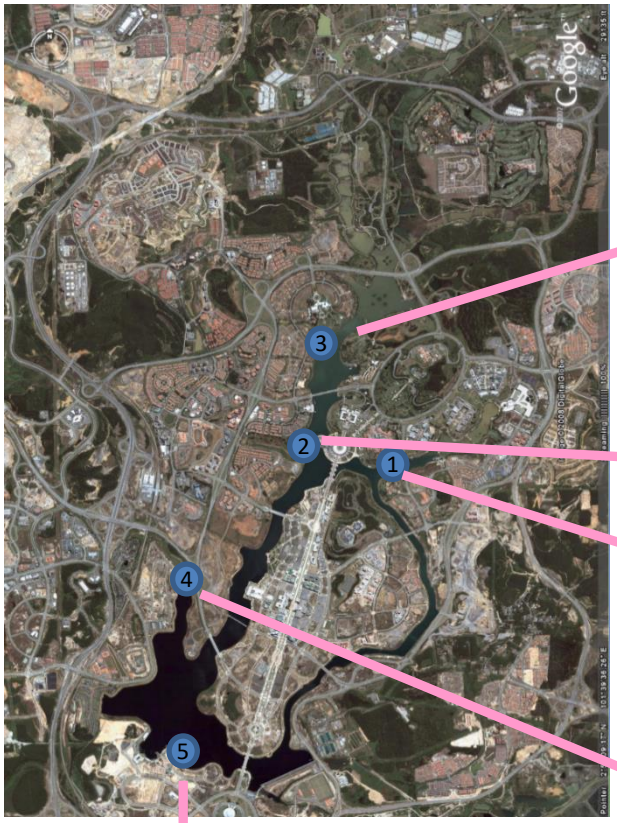
LATAR BELAKANG PROJEK

1. Menjalankan program pengawasan kualiti air secara telemetri (*SCADA*).
2. Mengesan kejadian pencemaran kualiti air dan memantau trend insiden pencemaran tersebut secara berterusan.
3. Membantu tindakan penguatkuasaan ke atas punca punca pencemaran melalui bacaan yang ditunjukkan.
4. Status Kualiti Air Tasik Putrajaya sentiasa berada di tahap Kelas II.

SKOP KERJA

1. Menjalankan kerja-kerja penyelenggaraan (pemeriksaan, pembersihan, penggantian dan dll yang berkaitan)

LOKASI SISTEM KAWALAN PUNCA PENCEMARAN ALAM SEKITAR (SKPPAS)

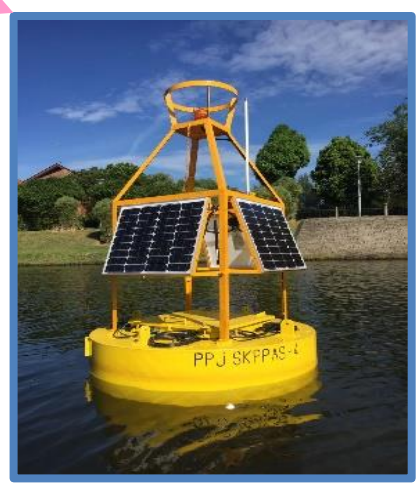


3. SKPPAS 03 – OUTLET PRESINT 9, 10 & 11

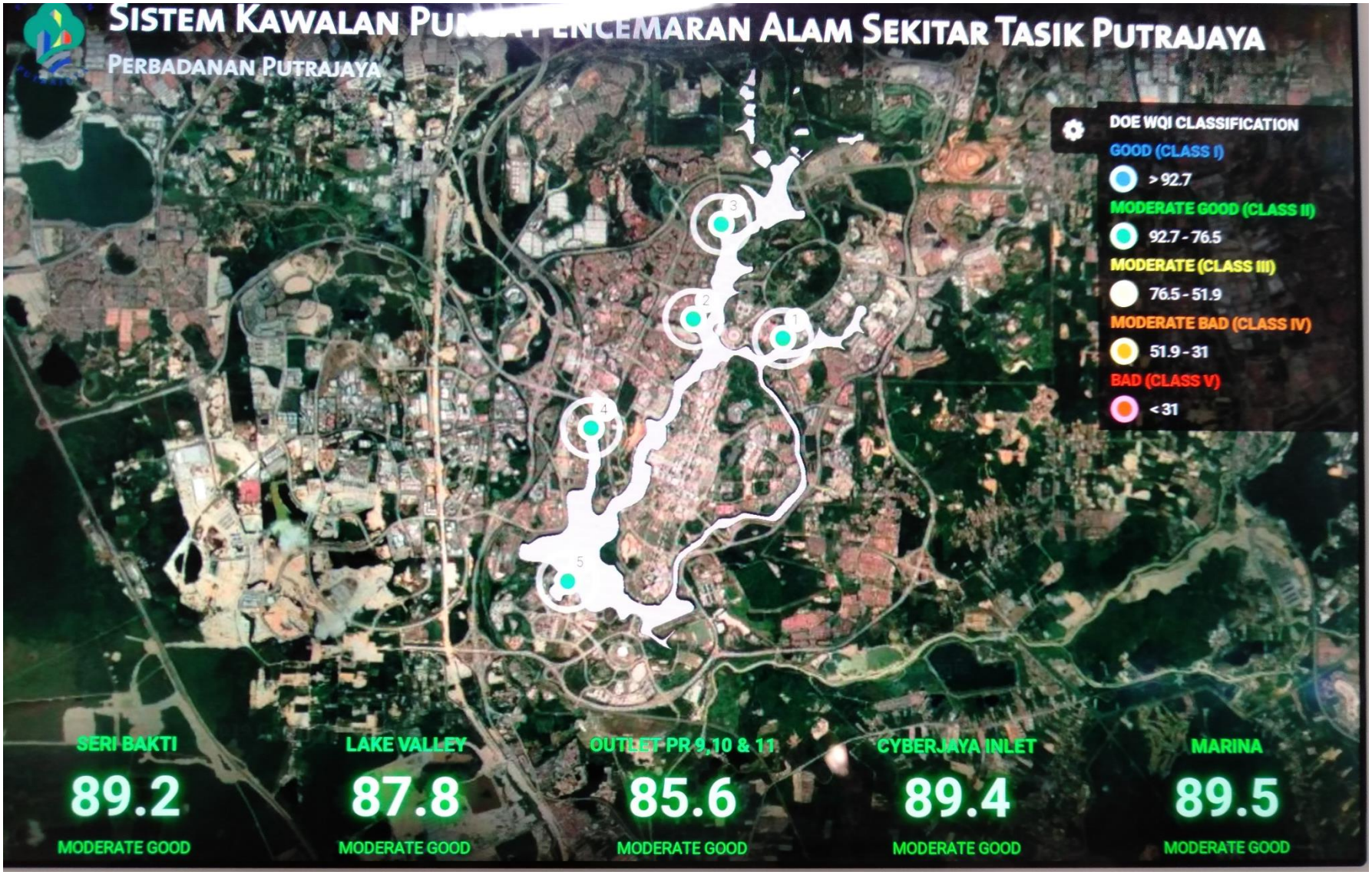
2. SKPPAS 02 – LAKE VALLEY, PRESINT 8

1. SKPPAS 01 – SERI BAKTI, PRESINT 1

5. SKPPAS 05 – MARINA, PRESINT 5



4. SKPPAS 04 – CYBERJAYA INLET, PRESINT 8


SISTEM KAWALAN PUNCA PENCEMARAN ALAM SEKITAR TASIK PUTRAJAYA
PERBADANAN PUTRAJAYA
DOE WQI CLASSIFICATION
GOOD (CLASS I)
> 92.7
MODERATE GOOD (CLASS II)
92.7 - 76.5
MODERATE (CLASS III)
76.5 - 51.9
MODERATE BAD (CLASS IV)
51.9 - 31
BAD (CLASS V)
< 31
1
2
3
4
5
SERI BAKTI
89.2
MODERATE GOOD
LAKE VALLEY
87.8
MODERATE GOOD
OUTLET PR 9,10 & 11
85.6
MODERATE GOOD
CYBERJAYA INLET
89.4
MODERATE GOOD
MARINA
89.5
MODERATE GOOD

08-11-2019

SISTEM KAWALAN PUNCA PENCEMARAN ALAM SEKITAR TASIK PUTRAJAYA

PERBADANAN PUTRAJAYA
Kompleks Perbadanan Putrajaya
24, Persiaran Perdana, Presint 3,
PUTRAJAYA,MALAYSIA

HOURLY REPORT

FROM DATE : 08/11/2019 **TO DATE :** 08/11/2019

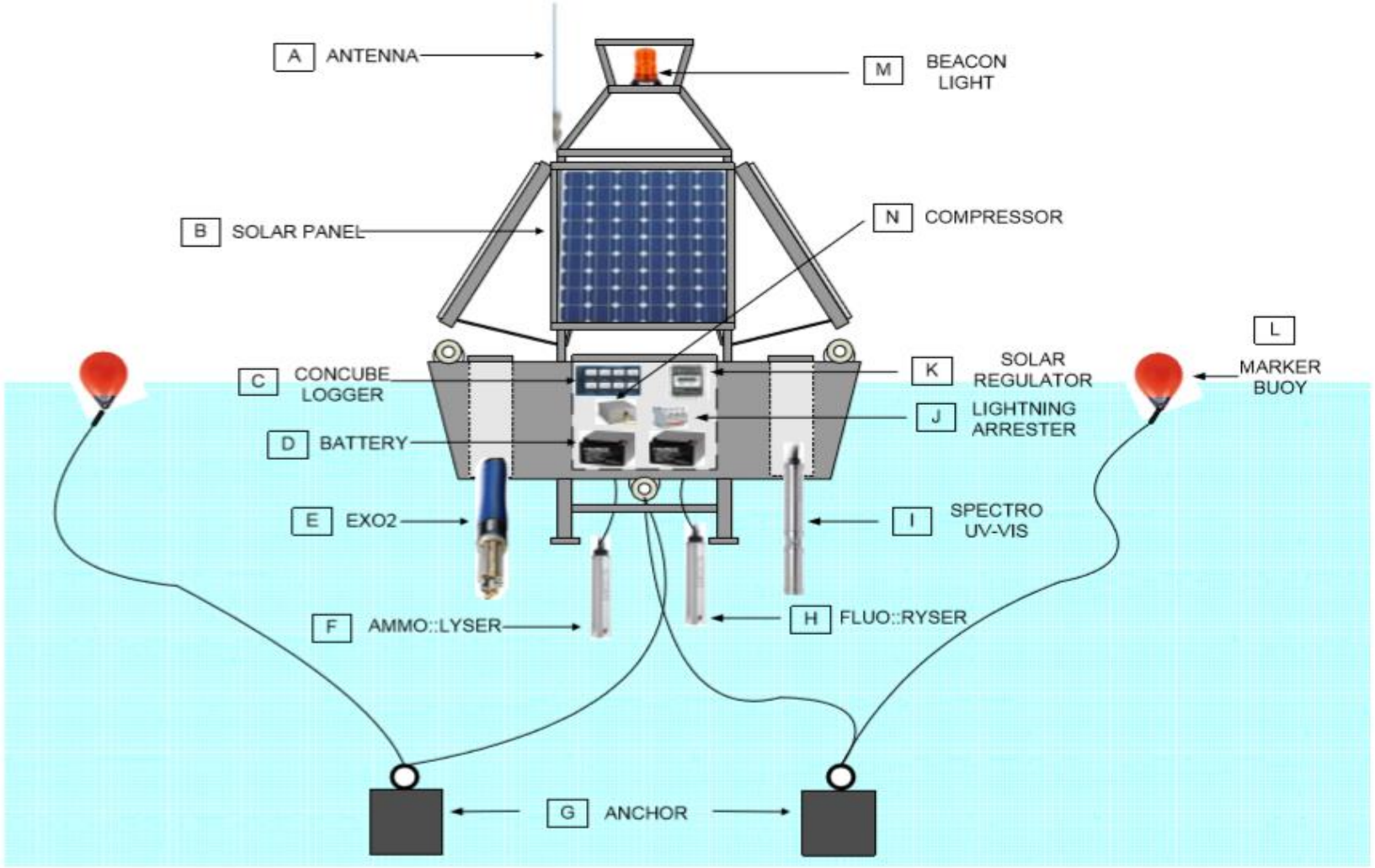
CLASS INDICATOR	I	II	III	IV	V	NA

SKPPAS01 **SERI BAKTI**

	WQI																				
DATE	WQI	Class	NH3N	BOD	COD	DO%	DO	PH	TSS	NO3	TUR	CL	COND	NH3	NH4	CL-	C'PYL	BGA	HC	TEMP	TDS	TOC
08-11-2019 00:00	87.6	II	0.08	5	17	123.3	9.15	8.64	7	0.469	1.6	779.79	87	0.04	0.10	0.00	34.10	1.79	0.00	31.10	56.79	3.65
08-11-2019 01:00	88.6	II	0.07	4	18	122.2	9.08	8.53	7	0.471	6.0	756.02	87	0.03	0.10	0.00	34.99	1.78	0.00	30.98	56.78	3.48
08-11-2019 02:00	88.4	II	0.08	4	19	118.9	8.85	8.44	7	0.472	10.2	748.41	88	0.03	0.10	0.00	35.14	1.86	0.00	30.88	57.07	3.31
08-11-2019 03:00	87.8	II	0.08	5	17	120.5	8.99	8.50	8	0.468	0.0	867.66	87	0.03	0.10	0.00	32.19	1.78	20.43	30.74	56.67	3.83
08-11-2019 04:00	88.4	II	0.09	5	17	110.3	8.28	8.15	8	0.467	0.0	843.62	87	0.01	0.12	0.00	41.28	1.87	21.47	30.42	56.52	3.80
08-11-2019 05:00	88.6	II	0.10	5	17	107.0	8.05	8.00	8	0.467	0.0	833.56	86	0.01	0.13	0.00	43.48	1.99	13.03	30.27	56.04	3.75
08-11-2019 06:00	88.7	II	0.10	5	17	104.5	7.88	7.92	8	0.466	0.7	882.87	86	0.01	0.14	0.01	41.04	1.93	0.00	30.16	56.15	3.69
08-11-2019 07:00	88.8	II	0.11	5	17	101.5	7.66	7.75	8	0.467	0.0	861.81	86	0.01	0.15	0.00	40.04	1.82	0.00	30.06	56.09	3.76
08-11-2019 08:00	88.7	II	0.12	5	17	100.9	7.64	7.72	8	0.465	0.0	905.70	87	0.01	0.16	0.00	38.79	1.87	0.00	29.96	56.14	3.71
08-11-2019 09:00	89.3	II	0.12	4	17	104.0	7.87	7.85	8	0.465	0.1	924.53	86	0.01	0.15	0.00	39.40	2.06	0.00	29.92	55.94	3.68
08-11-2019 10:00	88.4	II	0.12	5	17	107.5	8.14	7.98	7	0.465	0.8	974.07	86	0.01	0.15	0.00	40.19	2.09	0.00	29.90	55.78	3.65
08-11-2019 11:00	88.2	II	0.10	5	17	110.4	8.36	8.17	8	0.466	0.1	953.88	85	0.02	0.13	0.00	42.40	2.18	0.12	29.92	55.05	3.68
08-11-2019 12:00	87.9	II	0.09	5	18	115.2	8.70	8.35	7	0.467	2.2	919.46	84	0.02	0.11	0.00	41.78	2.16	0.00	30.04	54.47	3.58
08-11-2019 13:00	87.9	II	0.08	5	18	117.7	8.87	8.42	7	0.469	5.6	919.84	84	0.02	0.10	0.00	43.66	2.48	0.00	30.14	54.62	3.48
08-11-2019 14:00	89.4	II	0.07	4	18	112.8	8.49	8.18	7	0.471	6.9	877.37	84	0.01	0.10	0.00	53.74	2.46	0.00	30.27	54.62	3.45

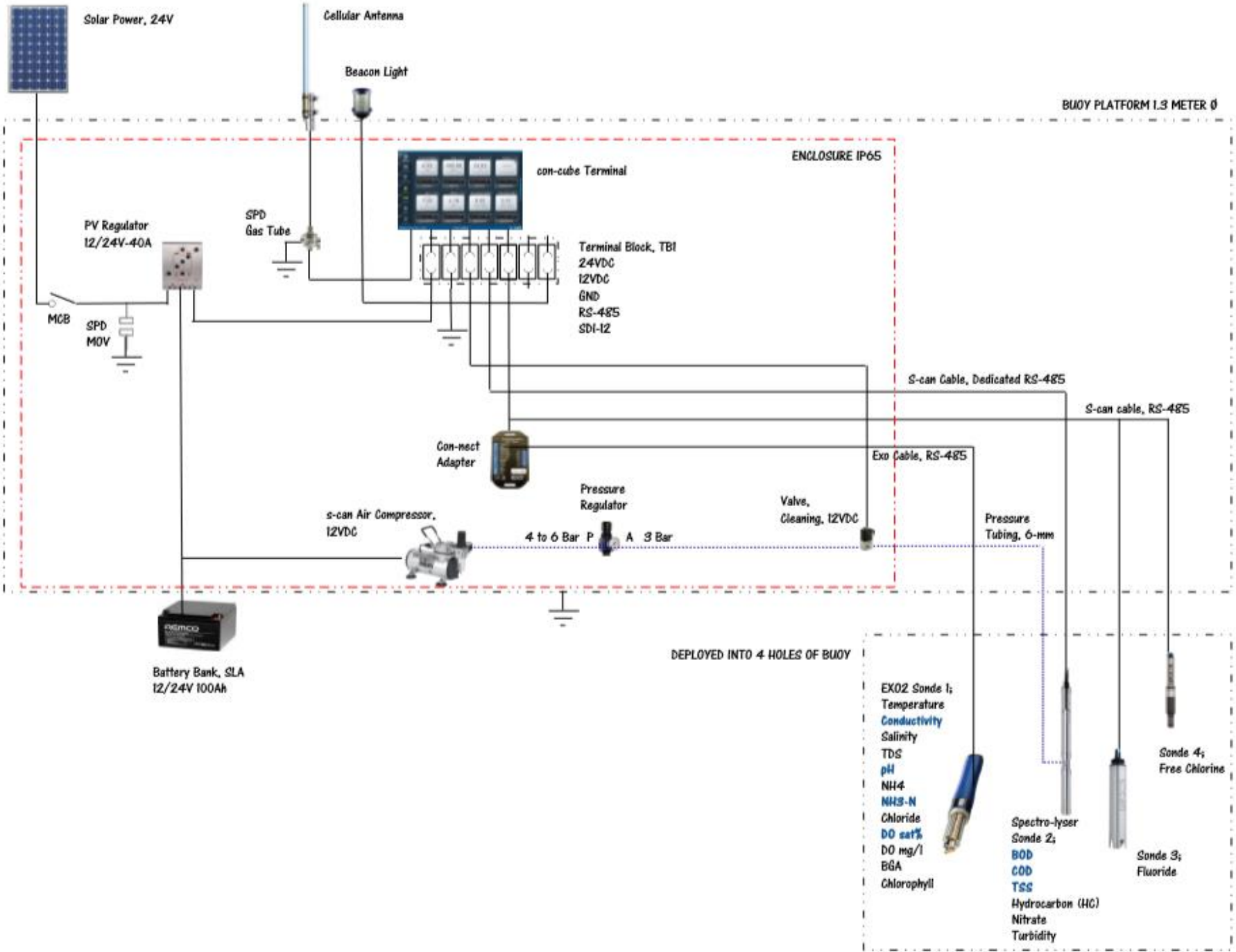
PPj SKPPAS

AWQMS STATION ILLUSTRATION LAYOUT

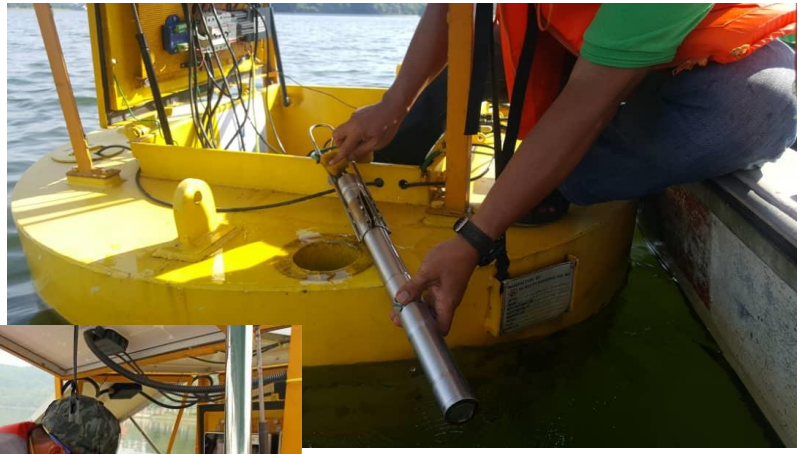


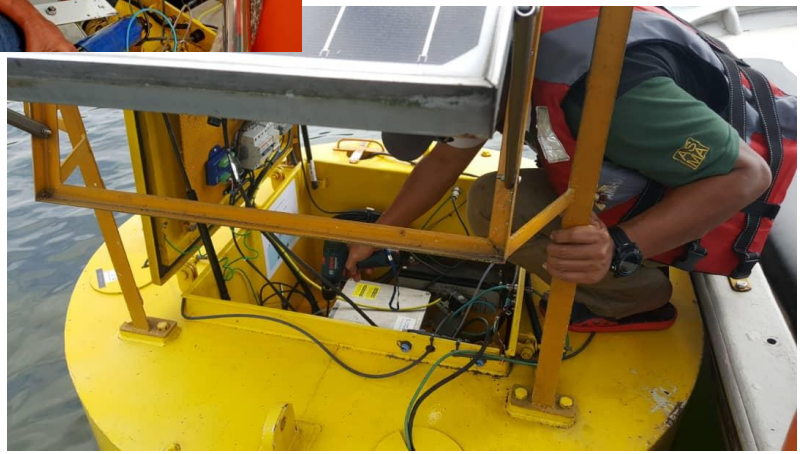
C
s::can
K
MPPT
J

D : BATTERY
N : COMPRESSOR
MAINTENANCE
CAUTION
MADE IN AUSTRIA


Solar Power, 24V
Cellular Antenna
Beacon Light
BUOY PLATFORM 1.3 METER Ø
ENCLOSURE IP65
con-cube Terminal
PV Regulator
12/24V-40A
SPD
Gas Tube
Terminal Block, TBI
24VDC
12VDC
GND
RS-485
SDI-12
MCB
SPD
MOV
S-can Cable, Dedicated RS-485
S-can cable, RS-485
Con-nect
Adapter
Exo Cable, RS-485
Pressure
Regulator
Valve,
Cleaning, 12VDC
Pressure
Tubing, 6-mm
s-can Air Compressor,
12VDC
4 to 6 Bar P
A 3 Bar
Battery Bank, SLA
12/24V 100Ah
DEPLOYED INTO 4 HOLES OF BUOY
EXO2 Sonde 1:
Temperature
Conductivity
Salinity
TDS
pH
NH4
NH3-N
Chloride
DO sat%
DO mg/l
BGA
Chlorophyll
Spectro-lyser
Sonde 2:
BOD
COD
TSS
Hydrocarbon (HC)
Nitrate
Turbidity
Sonde 3:
Fluoride
Sonde 4:
Free Chlorine

KERJA-KERJA PEMERIKSAAN KOMPONEN SISTEM / PERALATAN





KERJA-KERJA PENGANTIAN KOMPONEN SISTEM / PERALATAN

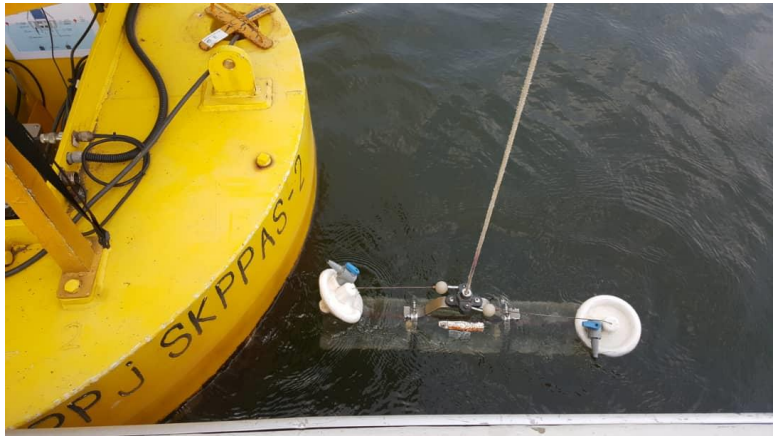
KERJA-KERJA PENGANTIAN KOMPONEN SISTEM / PERALATAN

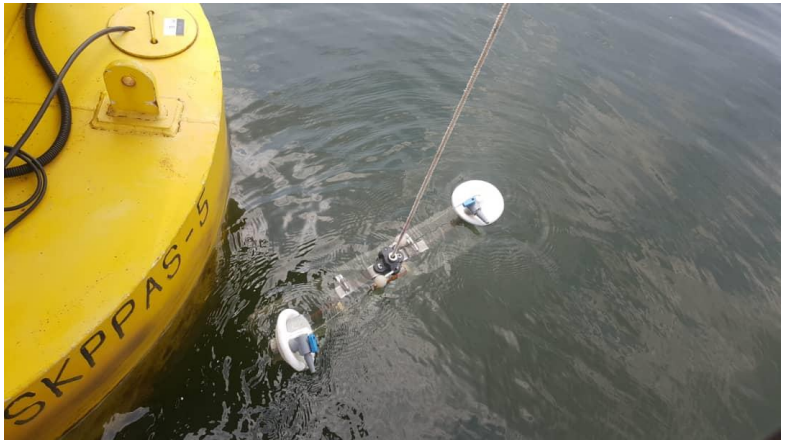
PERBADANAN PUTRAJAYA

KERJA-KERJA PENGUCIAN DAN PEMBERSIHAN SISTEM / PERALATAN

KERJA-KERJA PENGUCIAN DAN PEMBERSIHAN SISTEM / PERALATAN

KERJA-KERJA **PERSAMPELAN** (UTK UJIAN MAKMAL) UJIAN SEMAKAN SIJIL KALIBRASI





KERJA-KERJA PENGKALIBRASIAN PROBE/SENSORS(Ph, Cond, DO, Ammonium/Ammonia)

THANK YOU