



KEMENTERIAN
KESEHATAN
REPUBLIK
INDONESIA

FGD Indonesia Health System Strengthening SIHREN - Update

Kementerian Kesehatan RI

28 March 2024



Equipment Progress



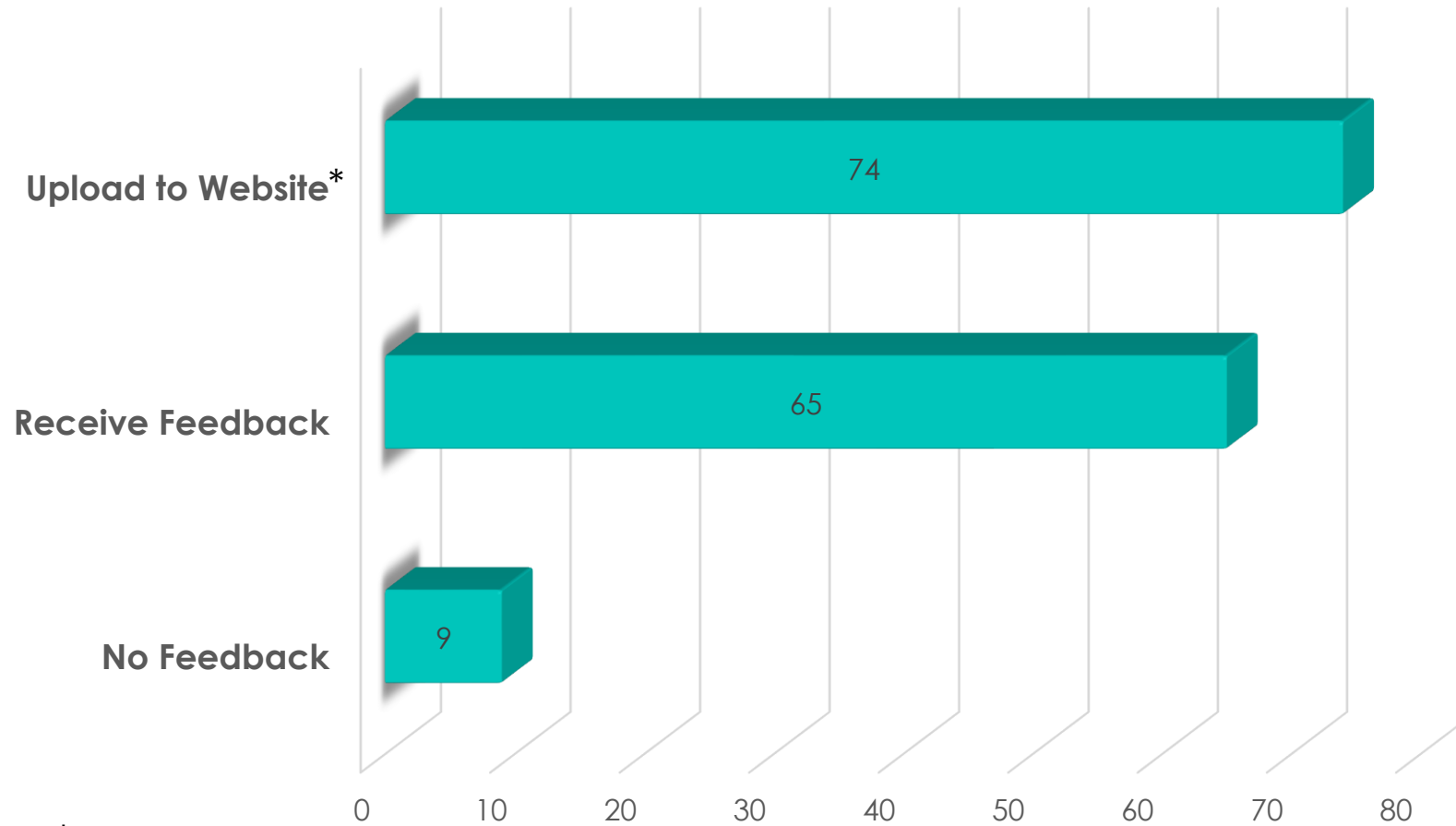
ASIAN INFRASTRUCTURE
INVESTMENT BANK



THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

Equipment Progress

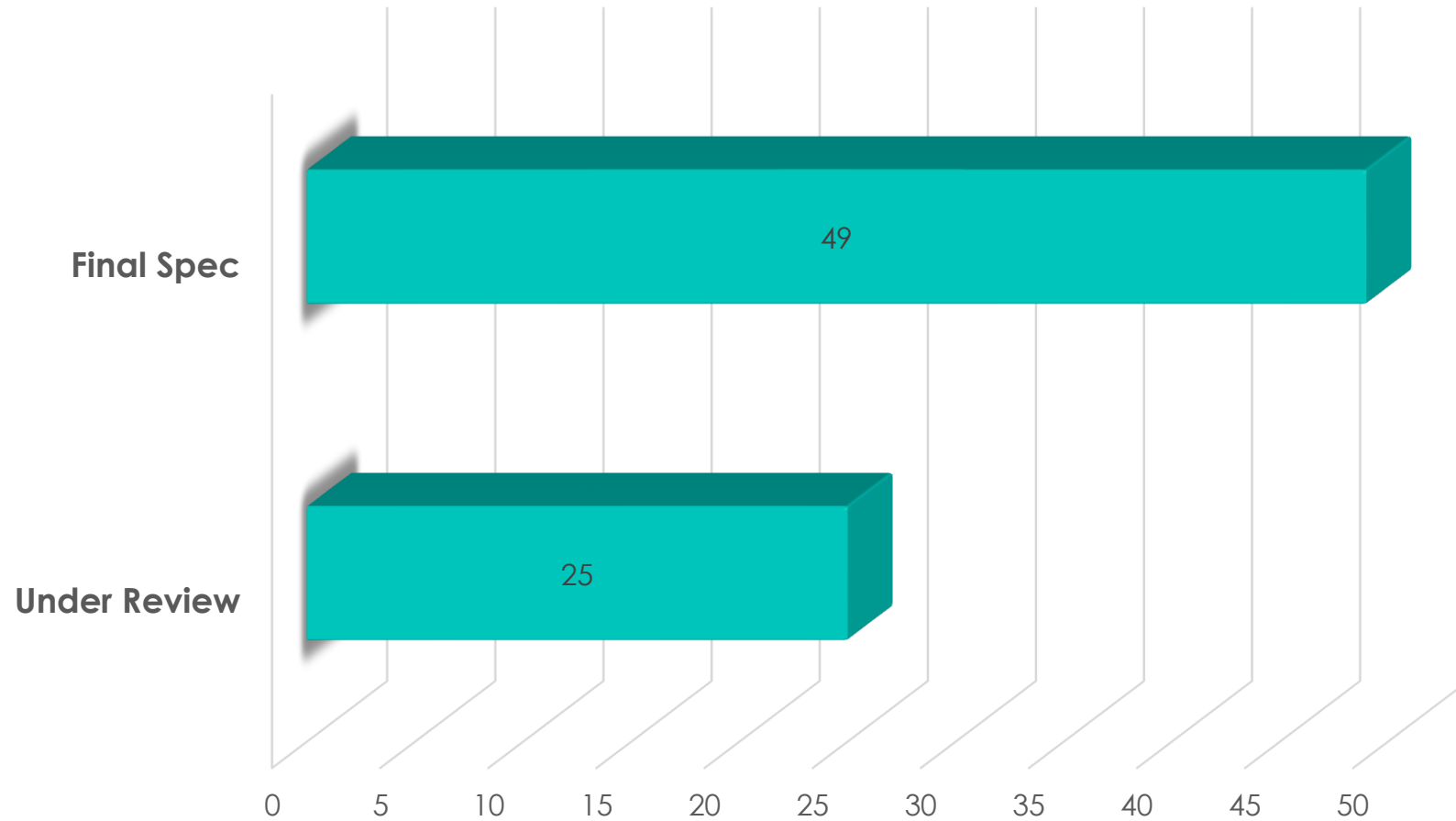
SIHREN



*4th Vendor Feedback

Equipment Progress

SIHREN



Final Specification – World Bank

No	Lot	Equipment	Procurement
1	Procurement of CPAP Equipment	Continuous Positive Airway Pressure (CPAP), Transport	National Open
2	Procurement of Dialysis Equipment	Automated Peritoneal Dialysis	National Open
3	Procurement of Invasive Cardiology Equipment	Fractional Flow Reserve (OCT and IVUS compatible)	International Open
4	Procurement of Infant Warmers Equipment	Infant Incubator (NICU)	International Open
5	Procurement of Invasive Cardiology Equipment	Optical Coherence Tomography (OCT)	International Open
6	Procurement of Invasive Cardiology Equipment	Rotablator (Cardiac)	International Open
7	Procurement of Invasive Cardiology Equipment	3D Ablation System	International Open
8	Procurement of Invasive Cardiology Equipment	Invasive Hemodynamic Monitor	International Open
9	Procurement of Electrical Beds with Scale	Electrical Beds with Scale	National Open
10	Procurement of Infant Warmers Equipment	Transport Infant Incubator	International Open
11	Procurement of Invasive Cardiology Equipment	Intravascular Ultrasound	International Open
12	Procurement of Laser Bundle	Laser Holmium (HoYAG Laser urology)	National Open
13	Procurement of Neonatal Equipment	Auditory Function Screening Devices - Otoacoustic (Neonate)	National Open
14	Procurement of MRI 1.5T	MRI 1,5T	International Open
15	Procurement of Near Infrared Spectroscopy (NIRS)	Near Infrared Spectroscopy (NIRS) NICU Cerebral Oximeter	National Open
16	Procurement of Neuro Equipment	High speed drill power system (for neurosurgery)	National Open
17	Procurement of Invasive Cardiology Equipment	Intra-aortic Ballon Pump (IABP)	International Open
18	Procurement of Neonatal Equipment	Auditory Function Screening Devices - Brain Evoked Response Auditory (Neonate)	National Open
19	Procurement of Ophthalmic Diode Laser	Ophthalmic Diode Laser (810nm)	National Open
20	Procurement of Oximetry Equipment	Portable Respiratory Monitor (Capnography + Oximetry)	National Open
21	Procurement of Oximetry Equipment	Pulse Co-Oximeter (Neonate)	National Open
22	Procurement of Patient Diagnostic Equipment	Ophthalmoscope Indirect	National Open
23	Procurement of Point-of-Care Bilirubinometer	Point-of-Care Bilirubinometer	National Open
24	Procurement of Portable Blood Gas Analyzer (NICU)	Portable Blood Gas Analyzer	National Open

Final Specification – World Bank

No	Lot	Equipment	Procurement
25	Procurement of Radiography Equipment	C-Arm	International Open
26	Procurement of Radiography Equipment	Digital Mobile X-Ray	International Open
27	Procurement of Respiratory/ Anaesthesia Equipment	Anesthesia Unit (Paeds)	National Open
28	Procurement of Surgery Equipment	ECMO Set	International Open
29	Procurement of Surgery Equipment	Heart Lung Bypass Unit	International Open
30	Procurement of Surgery Equipment	Radiofrequency Therapy System (Puncture Generator)	International Open
31	Procurement of Transcutaneous Non-Invasive Blood Gas Monitor	Transcutaneous Non Invasive Blood Gas Monitor	National Open
32	Procurement of Ultrasonic Cardiac Output Monitor	Ultrasonic Cardiac Output Monitor	National Open
33	Procurement of Ultrasound Equipment	4D Ultrasound (OBGYN)	International Open
34	Procurement of Ultrasound Equipment	Echocardiography	International Open
35	Procurement of Ultrasound Equipment	Portable Echocardiography (Neonate)	International Open
36	Procurement of Ultrasound Equipment	Ultrasound Doppler (Nephro)	International Open
37	Procurement of Ultrasound Equipment	4D Portable Echocardiography (Neonate)	International Open
38	Procurement of Ventilator Equipment	Transport Ventilator (Adult Paeds)	International Open
39	Procurement of Ventilator Equipment	Transport Ventilator (Neonate - NICU)	International Open
40	Procurement of Ventilator Equipment	High Frequency Ventilator (NICU)	International Open
41	Procurement of Warming/ Cooling Equipment	Warming_Cooling Units, Patient, Circulating Fluid (Blanket)	National Open
42	Procurement of Warming/ Cooling Equipment	Blanket Warmer (Forced Air)	National Open
43	Procurement of Warming/ Cooling Equipment	Warming_Cooling Units, Patient, Circulating Fluid (Pad)	National Open
44	Procurement of High Flow Equipment	High Flow Oxygen Delivery Unit (NICU)	National Open
45	Procurement of High Flow Equipment	High Flow Oxygen Delivery Unit (PICU)	National Open
46	Procurement of Patient Monitoring Invasive Equipment	Neonate Invasive Patient Monitor (NICU)	National Open
47	Procurement of Patient Diagnostic Equipment	Vein Finder	National Open
48	Procurement of Ventilator Equipment	Ventilator (Adult & Paeds)	International Open
49	Procurement of Ventilator Equipment	Ventilator (Neonate - NICU)	International Open

Specification - IsDB

No	Lot	Equipment	Procurement
1	Brachytherapy Lot 1	Brachytherapy	International Open
2	Brachytherapy Lot 2	Brachytherapy	International Open
3	Linac Lot 1	Linac	International Open
4	Linac Lot 2	Linac	International Open
5	CT Simulator Lot 1	CT-Simulator	International Open
6	CT Simulator Lot 2	CT-Simulator	International Open
7	CT Scan Lot 1 (West)	CT Scan 64 Slice*	International Open
8	CT Scan Lot 2 (Central)	CT Scan 64 Slice	International Open
9	CT Scan Lot 3 (East: Maluku & Sulawesi)	CT Scan 64 Slice	International Open
10	CT Scan Lot 4 - (East: Bali, Nusa Tenggara, Papua)	CT Scan 64 Slice	International Open
11	CT Scan Lot 5 - (128-256-512 Slice)	CT Scan 128, 256 and 512 Slice*	International Open
12	Mammography Lot 1 West	Mammography*	International Open
13	Mammography Lot 2 - Central	Mammography	International Open
14	Mammography Lot 3 - East	Mammography	International Open
15	Mammography Lot 4 - East	Mammography	International Open
16	Cyclotron Lot 1	Cyclotron	International Open
17	Mini Cyclotron Lot 2	Mini Cyclotron	International Open
18	PET-CT Lot 1	PET-CT Scan	International Open
19	PET-CT Lot 2	PET-CT Scan	International Open
20	SPECT Lot 1	SPECT	International Open
21	SPECT Lot 2	SPECT	International Open
22	Cytotoxic Drug Safety Cabinet Lot 1	Cytotoxic Drugs Safety Cabinet	International Open
23	Cytotoxic Drug Safety Cabinet Lot 2	Cytotoxic Drugs Safety Cabinet	International Open
24	Immunohistochemistry Set Lot 1 West	IHK Set	International Open
25	Immunohistochemistry Set Lot 2 Central	IHK Set	International Open
26	Immunohistochemistry Set Lot 3 East	IHK Set	International Open
27	Immunohistochemistry Set Lot 4 East	IHK Set	International Open

* Final Spec

Requirements

Requirements – World Bank

No	Equipment Type	OM	Consumables	Payment*	Experience Qty	AATO
1	3D Ablation System	Yes	Yes	Term	2	\$ 179,638
2	4D Portable Echocardiography (Neonate)	Yes	Yes	Term	8	\$ 1,571,780
3	4D Ultrasound (OBGYN)	Yes	Yes	Term	2	\$ 965,522
4	Anesthesia Unit (Paeds)	Yes	Yes	Term	5	\$ 449,080
5	Auditory Function Screening Devices - Brain Evoked Response Auditory (Neonate)	Yes	Yes	Term	6	\$ 404,172
6	Auditory Function Screening Devices - Otoacoustic (Neonate)	Yes	Yes	Term	31	\$ 452,448
7	Automated Peritoneal Dialysis	Yes	Yes	Term	14	\$ 227,908
8	Blanket Warmer (Forced air)	Yes	Yes	Term	243	\$ 1,705,102
9	C-Arm	Yes	No	Term	2	\$ 1,493,191
10	Continuous Positive Airway Pressure (CPAP), Transport	Yes	Yes	Term	146	\$ 2,569,547
11	Digital Mobile X-Ray	Yes	No	Term	2	\$ 797,117
12	Echocardiography	Yes	No	Term	72	\$28,621,365
13	ECMO Set	Yes	Yes	Term	11	\$ 7,905,817
14	Electrical Beds with Scale	Yes	No	Term	26	\$ 314,872
15	Fractional Flow Reserve (OCT and IVUS compatible)	Yes	No	Term	11	\$ 1,886,136
16	Heart Lung Bypass Unit	Yes	Yes	Term	10	\$ 4,750,299
17	High Frequency Ventilator (NICU)	Yes	Yes	Term	3	\$ 1,173,221
18	High speed drill power system (for neurosurgery)	Yes	No	Term	20	\$ 1,122,700
19	Infant Incubator (NICU)	Yes	Yes	Term	107	\$ 4,722,918
20	Intra-aortic Ballon Pump (IABP)	Yes	Yes	Term	4	\$ 1,094,633
21	Intravascular Ultrasound	Yes	Yes	Term	2	\$ 987,976
22	Invasive Hemodynamic Monitor	Yes	Yes	Term	8	\$ 644,149
23	Laser Holmium (Ho:YAG Laser urology)	Yes	Yes	Term	17	\$ 3,817,180
24	MRI 1,5 T	Yes	Yes	Term	3	\$15,717,800
25	Near Infrared Spectroscopy (NIRS) NICU/Cerebral Oximeter	Yes	Yes	Term	5	\$ 539,177

OM – Operations and Maintenance

AATO - Annual Aggregate Turnover

* Payment will be updated either Fully Paid or Term



ASIAN INFRASTRUCTURE INVESTMENT BANK



THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

Requirements – World Bank

No	Equipment Type	OM	Consumables	Payment*	Exp Qty	AATO
26	Ophthalmic Diode Laser (810nm)	Yes	Yes	Term	6	\$ 404,172
27	Ophthalmoscope Indirect	Yes	No	Term	12	\$ 59,952
28	Optical Coherence Tomography (OCT)	Yes	Yes	Term	8	\$ 987,976
29	Point-of-Care Bilirubinometer, Blood Sample	Yes	Yes	Term	155	\$ 2,977,682
30	Portable Blood Gas Analyzer (NICU)	Yes	Yes	Term	195	\$ 5,349,945
31	Portable Echocardiography (Neonate)	Yes	Yes	Term	116	\$ 8,255,212
32	Portable Respiratory Monitor (Capnography + Oximetry)	Yes	Yes	Term	21	\$ 391,373
33	Pulse Co-Oximeter (Neonate)	Yes	Yes	Term	153	\$ 1,517,328
34	Radiofrequency Therapy System (Puncture Generator)	Yes	Yes	Term	6	\$ 486,354
35	Rotablator (Cardiac)	Yes	No	Term	14	\$ 958,786
36	Transcutaneous Non Invasive Blood Gas Monitor	Yes	Yes	Term	6	\$ 286,288
37	Transport Infant Incubator	Yes	Yes	Term	2	\$ 130,233
38	Transport Ventilator (Adult & Paeds)	Yes	Yes	Term	1	\$ 52,767
39	Transport Ventilator (Neonate - NICU)	Yes	Yes	Term	11	\$ 679,233
40	Ultrasonic Cardiac Output Monitor	Yes	Yes	Term	12	\$ 1,269,774
41	Ultrasound Doppler (Nephro)	Yes	Yes	Term	93	\$ 22,507,661
42	Warming/Cooling Units, Patient, Circulating-Liquid (Blanket)	Yes	No	Term	15	\$ 796,556
43	Warming/Cooling Units, Patient, Circulating-Liquid (Pad)	Yes	No	Term	28	\$ 746,596
44	High Flow Oxygen Delivery Unit (NICU)	Yes	Yes	Term	18	\$ 628,712
45	High Flow Oxygen Delivery Unit (PICU)	Yes	Yes	Term	18	\$ 628,712
46	Neonate Invasive Patient Monitor (NICU)	Yes	Yes	Term	15	\$ 210,506
47	Vein Finder	Yes	Yes	Term	6	\$ 31,404
48	Ventilator (Adult & Paeds)	Yes	Yes	Term	248	\$ 21,757,084
49	Ventilator (Neonate)	Yes	Yes	Term	188	\$ 16,482,639

OM – Operations and Maintenance

* Payment will be updated either Fully Paid or Term

AATO - Annual Aggregate Turnover

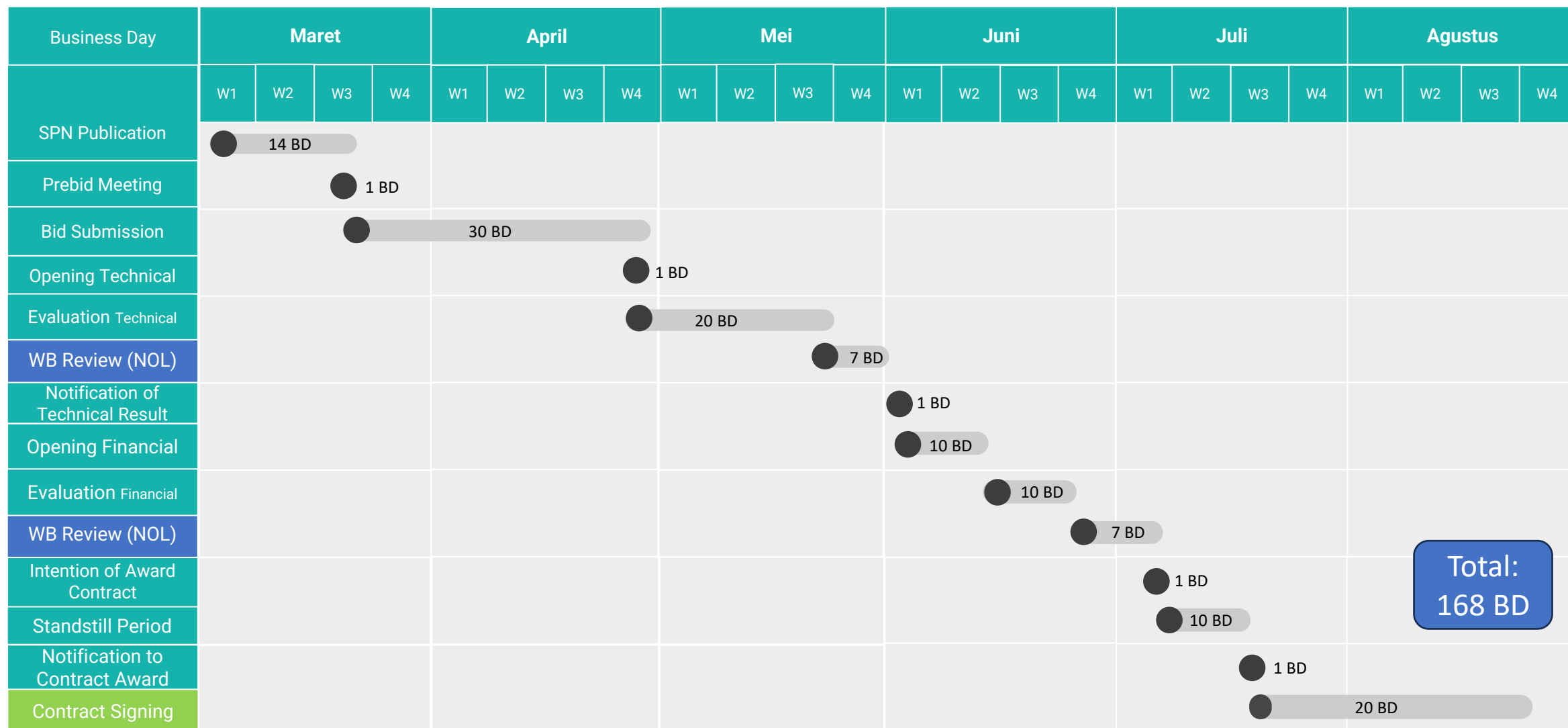
Requirements - IsDB

No	Equipment Type	OM	Consumables	Payment	Exp Qty	AATO
1	Brachytherapy	Yes	No	Term	6	\$ 10,104,300
2	CT Scan 128 Slice	Yes	Yes	Term	6	\$ 5,388,960
3	CT Scan 256 Slice	Yes	Yes	Term	1	\$ 7,858,900
4	CT Scan 512 Slice	Yes	Yes	Term	1	\$ 4,425,661
5	CT Scan 64 Slice	Yes	Yes	Term	1	\$ 123,208,466
6	CT-Simulator	Yes	Yes	Term	94	\$ 7,484,667
7	Cyclotron	Yes	No	Term	1	\$ 14,931,910
8	Cytotoxic Drugs Safety Cabinet	No	Yes	Term	134	\$ 3,630,250
9	IHK Set	Yes	Yes	Term	150	\$ 1,122,700
10	Linac	Yes	No	Term	7	\$ 3,817,180
11	Mammography	Yes	No	Term	108	\$ 47,793,339
12	Mini Cyclotron	Yes	No	Term	1	\$ 51,346,786
13	PET-CT Scan	Yes	Yes	Term	4	\$ 987,976
14	SPECT	Yes	Yes	Term	12	\$ 958,786

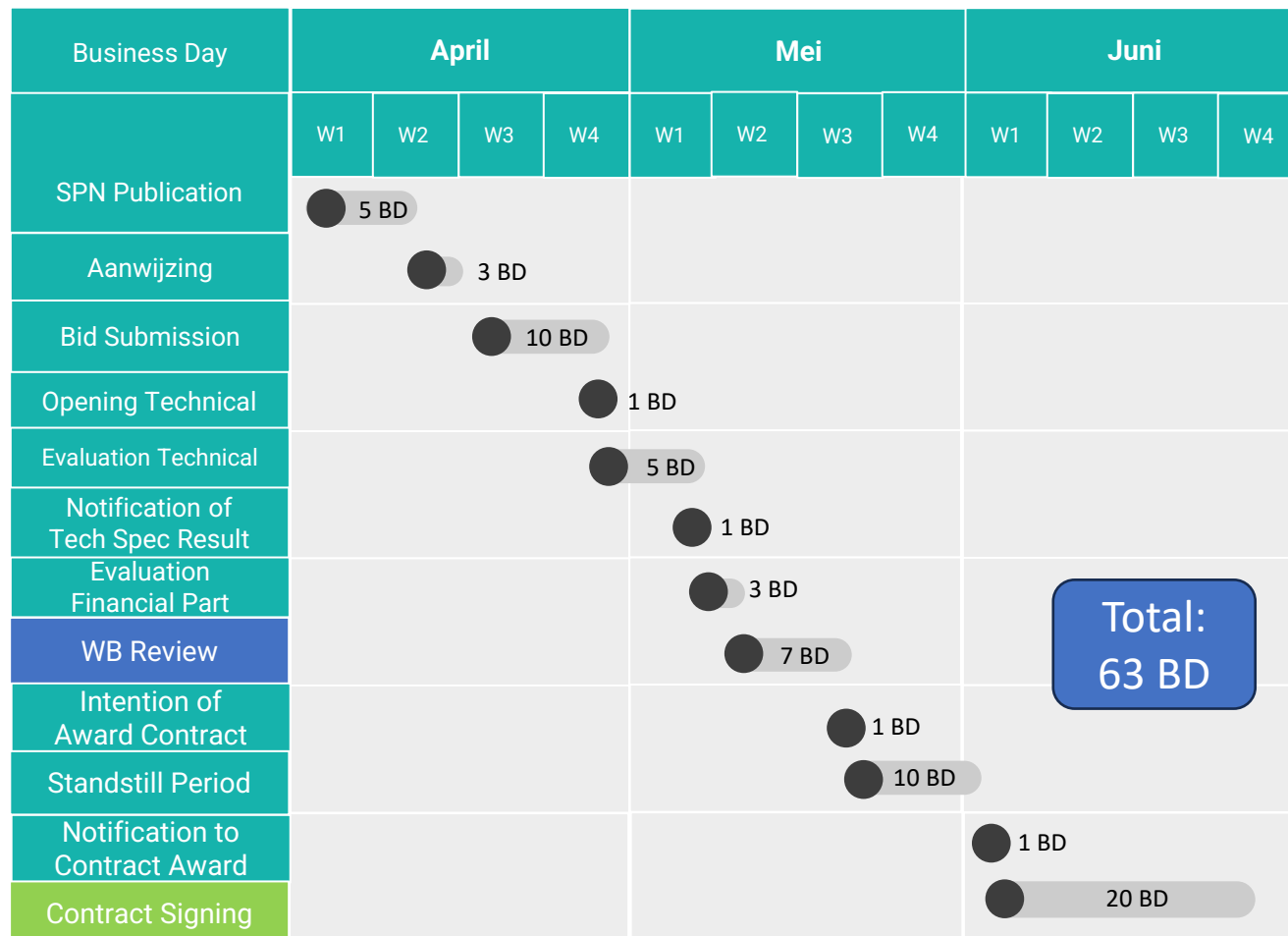
OM – Operations and Maintenance

AATO - Annual Aggregate Turnover

Timeline Pengadaan Internasional



Timeline Pengadaan Nasional



Jadwal Pengadaan

SIHREN - WB

April	May	June	July	August	September	October	November	December
International Bidding						Delivery Batch 2024		
National Bidding				Delivery Batch 2024				

SIHREN - IsDB

April	May	June	July	August	September	October	November	December
International Bidding for: CT Scan 64, 128, 256 and 512 Mammography						Delivery Batch 2024		



KEMENTERIAN
KESEHATAN
REPUBLIK
INDONESIA