

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category		SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
SA1	AIR TRANSPORTATION & SUPPORT SERVICES								
	01	Passenger Air Transportation							
	01	Helicopter Services	SA1010100	The provision of manpower, equipment, facilities and services for helicopter operation and maintenance including ground handling	Strategic	L/R	Refer to Min Tech Requirement (MTR) Services	Self-operated	51
	02	Fixed Wing Services	SA1010200	The provision of manpower, equipment, facilities and services for fixed wing operation and maintenance including ground handling	Strategic	L/R	Refer to Min Tech Requirement (MTR) Services	Self-operated	51
	02	Aviation Services							
	01	Aviation Support Services	SA1020100	The provision of manpower, equipment, facilities, maintenance and services for aviation related services. (e.g. training, Air Emergency Services, aircraft spare parts, etc.)	General	L/R		Self-operated	51
	02	Aviation Fuelling Services	SA1020200	The provision of manpower, equipment, facilities, maintenance and services for related aviation fueling. (e.g. fuelling, defuelling, training, inspection, fuel testing, etc.)	General	L/R		Self-operated	51
	03	Aviation Consultancy, Technical & Services Audit	SA1020300	The provision of manpower and technical services for aviation consultancy, inspection and audit. (e.g. helideck inspection, perform audit on service provider capability, air operation consultancy, calibration services, etc.)	General	L/R		Self-operated	51
	03	Aerial Surveillance							
	01	Manned & Unmanned	SA1030100	The provision of manpower, materials, consumables, equipment and facilities in Malaysia necessary for manned/unmanned aerial surveillance	General	L/R		Self-operated	51
SC1	CATERING & ASSOCIATED SERVICES								
	01	Offshore Catering							
	01	Offshore Catering	SC1010000	The provision of offshore catering and related services	General	L		Self-operated	100
	02	Onshore Catering							
	02	Onshore Catering	SC1020000	The provision of catering services	General	L/R		Self-operated	100
SC2	CIVIL, STRUCTURAL & BUILDING MAINTENANCE SERVICES								
	01	Site Preparation and Soil Investigation							
	01	Onshore Site Preparation	SC2010100	The provision of manpower, materials, equipment, services and facilities for site preparation including installation of temporary facilities, site clearing, earthworks and levelling	General	L/R	CIDB CE21; Grade G3 & above	Self-operated	51
	02	Offshore Site Preparation	SC2010200	The provision of manpower, materials, equipment, services and facilities for offshore site preparation including underwater debris removal, seabed leveling, stumping, etc.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC2	Agent	51
	03	Onshore Soil Investigation	SC2010300	The provision of manpower, equipment & services for Wellsite, Onshore Facilities & Pipeline (Onshore) site investigation including in marine condition (coastal and river)	General	L/R	CIDB CE21; Grade G3 & above	Self-operated	30
	04	Offshore Soil Investigation	SC2010400	The provision of manpower, materials, equipment, services and facilities for offshore soil investigation and soil testing activities	General	L/R		Self-operated	30
	02	Foundation Works							

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	01	Piling	SC2020100	The provision of labour, materials, equipment, services and facilities for installation of all types of piling	General	L/R	CIDB B05 or CE10; Grade G3 & above	Self-operated	51
	02	Other Foundation Works	SC2020200	The provision of labour, materials, equipment, services and facilities for installation of other types of foundations (excluding piling), e.g pad footing, strip footing, raft foundation	General	L/R	CIDB B04 or CE21; Grade G3 & above	Self-operated	51
	03	Structure Construction & Maintenance							
	01	Road & Pavement Construction & Maintenance	SC2030100	The provision of labour, materials, equipment, services and facilities for construction/maintenance of road and pavement, open carpark and related works.	General	L/R	CIDB CE01; Grade G3 & above	Self-operated	51
	02	Drainage & Sewerage Construction & Maintenance	SC2030200	The provision of manpower, materials, equipment, services and facilities for construction/maintenance of drainage works such as monsoon drain, culvert, etc. and sewerage facilities including sewer pipes, treatment plant, pump house, etc.	General	L/R	CIDB B27/CE19/CE38; Grade G3 & above Suruhanjaya Perkhidmatan Air Negara (SPAN) Permit C or D (except Sabah & Sarawak companies)	Self-operated	51
	03	Railway Tracks Construction & Maintenance	SC2030300	The provision of manpower, materials, equipment, services and facilities for Installation of railway tracks and maintenance/repair of railway tracks	Strategic	L/R	CIDB CE07; Grade G1 & above	Self-operated	51
	04	Onshore Marine Structure Construction & Maintenance	SC2030400	The provision of manpower, materials, equipment, services and facilities for construction/maintenance of marine structures such as jetties, ports, wharves, harbours, breakwater and river walls.	Strategic	L/R	CIDB CE03; Grade G3 & above	Self-operated	51
	05	Building & Structure Construction	SC2030500	The provision of manpower, materials, equipment, services and facilities necessary for construction of offices, warehouses, laboratories, other buildings & structures.	Strategic	L/R	CIDB B01/B02/ B04/CE24; Grade G3 & above	Self-operated	51
	05	Land Survey	SC2050000	The provision of manpower, materials, equipment, services and facilities for land surveying works including underground utilities	General	L/R	Land Surveyor must be registered with "Board of Land Surveyor"	Self-operated	51
	06	Valuer	SC2060000	The provision of manpower, materials, equipment, services and facilities necessary for accurate estimation on current market properties	General	L/R	Firm must registered with "Board of Valuers, Appraisers and Estate Agents Malaysia"	Self-operated	51
	08	Scaffolding Services & Inspection	SC2080000	The provision of manpower, materials, equipment, services and facilities for scaffolding services and inspection	General	L/R		Self-operated	51
	09	Water Reticulation Works	SC2090000	The provision of manpower, materials, equipment, services and facilities for construction/maintenance of water supply facilities such as piping works, treatment plant, pump house, etc	General	L/R	CIDB B27/CE20/CE39; Grade G3 & above Suruhanjaya Perkhidmatan Air Negara (SPAN) Permit C or D (except Sabah & Sarawak companies)	Self-operated	51
	10	Fencing	SC2100000	The provision of manpower, materials, equipment, services and facilities for construction, installation and maintenance of	General	L/R	CIDB B04 or CE21; Grade G3 & above	Self-operated	51
	11	Slope Protection	SC2110000	The provision of manpower, materials, equipment, services and facilities for installation of specialised slope protection works such as soil nailing, earth reinforcement, tension angle	General	L/R	CIDB CE08 or CE21; Grade G3 & above	Self-operated	51
	12	Reclamation & Dredging Works	SC2120000	The provision of manpower, materials, equipment, services and facilities for reclamation & dredging works	Strategic	L/R	CIDB CE06 or CE18; Grade G3 & above	Self-operated	51

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	13	General Structural / Building Maintenance, Repairs & Upgrading Works							
	01	General Structural / Building Painting	SC2130100	The supply of manpower, materials, services and facilities for internal and external painting/repainting of buildings and general structures	General	L/R	CIDB B14; Grade G1 & above	Self-operated	51
	02	Water Proofing	SC2130200	The supply of manpower, materials, services and facilities of for waterproofing of building basement, roofs, floor, and wall and concrete tank	General	L/R	CIDB B08; Grade G1 & above	Self-operated	51
	03	Plumbing	SC2130300	The supply of manpower, materials, services and facilities for installation, repairs and servicing of water pipes, sanitary works and plumbing fixture	General	L/R	CIDB B10; Grade G1 & above Suruhanjaya Perkhidmatan Air Negara (SPAN) Permit A for plumber (except Sabah & Sarawak company) Plumber and Pipe Fitter's certificate from Local Authority for Sabah & Sarawak company	Self-operated	51
	04	Concrete Repairs and Strengthening	SC2130400	The supply of manpower, materials, services and facilities for reinforcement of structures by way of pressure grouting, guniting, etc	Strategic	L/R	CIDB B06 or CE11; Grade G1 & above	Self-operated	51
	05	Roofing	SC2130500	The supply of manpower, materials, services and facilities for roof installation	General	L/R	CIDB B15; Grade G1 & above	Self-operated	51
	06	Interior Decoration / Renovation	SC2130600	The provision of manpower, materials, equipment, services and facilities for interior decoration and renovation of buildings. This includes ceiling panels, partitions, built in fitments, raised floor works, etc.	General	L/R	CIDB B07; Grade G1 & above	Self-operated	51
	09	Locksmith services	SC2130900	The provision of manpower, materials, equipment and services for locksmith works	General	L/R		Self-operated	30
	14	Grounds Maintenance Services							
	01	Landscaping	SC2140100	The provision of manpower, materials, equipment, services and facilities for landscaping services including tree planting, turfing, hardscape & maintenance	General	L/R	CIDB B09 or CE14; Grade G3 & above	Self-operated	51
	03	Grass Cutting & Regrading Earth Drains	SC2140300	The provision of manpower, materials, equipment, services and facilities for Grass Cutting, lawn mowing & Regrading Earth Drains	General	L/R		Self-operated	100
	04	Bush Control	SC2140400	Clearing of access route such as Right of Way (ROW) that includes clearing of bushes, shrubs and trimming of trees branches.	General	L/R		Self-operated	51
	16	Service Station							
	01	Service Station Construction	SC2160100	The provision of engineering, manpower, materials, equipment, services, project management and facilities for construction of service station and associated infrastructure	General	L/R	CIDB B02 or B04; Grade G3 & above CIDB M12; Grade G3 & above	Self-operated	51
	02	Service Station Maintenance & Upgrading Works	SC2160200	The provision of manpower, materials, equipment, services, project management and facilities for maintenance and upgrading of service station including civil, mechanical &	General	L/R	CIDB B02 or B04; Grade G3 & above CIDB M12; Grade G3 & above	Self-operated	51
	17	Non-scheduled Waste Management							
	01	Domestic Waste Management	SC2170100	The provision of manpower, equipment, services, characterization, transportation & disposal of organic waste such as kitchen waste, sanitary and sewerage etc.	General	L/R		Self-operated	51

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	02	Industrial Waste Management	SC2170200	The provision of manpower, equipment, services, characterization, transportation, disposal & recycle of industrial waste such as wood, bricks, packaging etc.	General	L/R		Self-operated	51
19	Removal & Disposal Services								
	01	Removal & Disposal Of Metal Scrap	SC2190100	The provision of manpower, equipment, services, treatment, characterization, transportation & disposal of metal scrap	General	L/R	Business license applicable to the scope of work issued by relevant authority (e.g. PDRM, local municipal / city council)	Self-operated	51
	02	Removal & Disposal of Debris	SC2190200	The provision of manpower, equipment, services, treatment, characterization, transportation & disposal of debris to approved site	General	L/R		Self-operated	51
SC3	CONSULTANCY SERVICES								
01	Project Management								
	01	Project Management - Plant	SC3010100	The provision of project management services for plant construction, rejuvenation and major maintenance work	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
	02	Project Management - Pipeline	SC3010200	The provision of Pipeline Project Management services	General	L/R		Self-operated Agent	30 51
	03	Project Management - Drilling	SC3010300	The provision of Drilling Integrated Engineering and Project Management services	General	L		Self-operated Agent	30 51
	04	Project Management - Building, Structural & Civil Works	SC3010400	The provision of project management services for Building, Structural & Civil Works	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated	51
	05	Shutdown/Plant Turnaround Project Management	SC3010500		General	L/R		Self-operated	30
	06	Decommissioning of Facilities / Project							
	01	Onshore Pipeline Facilities	SC3010601	The provision of onshore pipeline facilities decommissioning and abandonment	General	L/R		Self-operated	30
02	Engineering Consultancy Services (Operation & Maintenance Studies)								
	01	Mechanical Engineering Consultancy							
	01	Static & Piping Consultancy	SC3020101	The provision to conduct static & piping basic engineering study. (e.g. mechanical asset life study, lifting study, mechanical audit & assessment and operations & maintenance strategy)	General	L/R	Personnel to be registered with BEM as a professional engineer	Self-operated	30
	02	Rotating Equipment Consultancy	SC3020102	The provision to conduct rotating equipment engineering support services (e.g. feasibility study, design review, Reliability, Availability and Maintainability (RAM) study, etc.) and rotating equipment operation and maintenance technical support services (e.g. integrity & reliability study, equipment asset life study, Reliability Centered Maintenance (RCM), equipment failure analysis, etc.)	General	L/R		Self-operated Agent	30 51
	02	Electrical Engineering Consultancy	SC3020200	The provision to conduct Electrical engineering study. (E.g. System study, electrical integrity & reliability study, electromagnetic compatibility study, electrical asset life study, electrical audit & assessment and operations & maintenance strategy)	General	L/R		Self-operated	30

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	04	Civil & Structural Engineering Consultancy	SC3020400	The provision of civil & structural engineering consultancy services including engineering study such as integrity & reliability study, asset life study, advance geotechnical, finite element analysis, inspection & maintenance study and etc.	General	L/R		Self-operated	51
	07	Pipeline Engineering Consultancy	SC3020700	To provide consultancy on pipeline integrity services, e.g. risk assessment, fitness for service assessment, advance integrity assessment, etc.	General	L/R		Self-operated	30
	10	Plant & Topside 3D Scanning & Modelling	SC3021000	The provision to provide services, equipment, software and manpower for plant & topside 3D scanning and modeling	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
	11	Measurement/Metering of Hydrocarbon Consultancy	SC3021100	The provision of Measurement/Metering Consultancy work such as development of Measurement Concept, Metering Project execution consultancy, study related to metering matters and hydrocarbon allocation. Audit and assessment on Metering System and Hydrocarbon Allocation System	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated Agent	30 51
	12	Flow Assurance	SC3021200	The provision of engineering services in the area of Flow Assurance Analysis during various stages including but not limited to Feasibility Study, Concept Select Study and Front End Engineering Design (FEED) of subsea development project.	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
	13	Feasibility Study	SC3021300	The provision to conduct study and propose the most feasible options. Report from this study will be used as an input to proceed with Conceptual Engineering Design/FEED	General	L/R		Self-operated	30
03	HSE Consultancy Services								
	01	Safety Consultancy	SC3030100	The provision of safety consultancy services such as Risk Assessment, Safety Report, Behavior Safety, Process Safety & Fire Safety, OHSAS (Occupational Health & Safety Assessment System) 18001, HAZOP (Hazard & Operability Analysis), IPF (Instrumented Protective Function), SAFOP (Safety & Operability) Study, etc.	General	L/R		Self-operated	30
	02	Environment Consultancy	SC3030200	The provision of environment consultancy services such as Environmental Impact Assessment, Environmental Risk Assessment, ISO 14001, Environmental Baseline Survey, Environmental Monitoring, etc.	General	L/R		Self-operated	51
	03	Occupational Health Consultancy	SC3030300	The provision of Occupational Health Consultancy services such as Health Impact Assessment, Biological Vector Control, local health facility assessment, etc.	General	L/R		Self-operated	51
	04	Industrial Hygiene Survey & Services	SC3030400	The provision of Industrial Hygiene Survey and Consultancy services such as Health Risk Assessment, Chemical Health Risk Assessment, Indoor Air Quality, Noise Monitoring Services, Dust Monitoring Services, etc.	General	L/R		Self-operated	51

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	10	Road Transport Safety Consultancy	SC3031000	The provision of road transport safety consultancy services (e.g. route hazard mapping, road safety audit, safety campaign & programs, emergency response services, transporter audit, etc.)	General	L/R		Self-operated 30
05	Geophysical QC & Consultancy Services		SC3050000	Provision of manpower supply for consultancy services for geophysical data acquisition & data processing, seismic modeling, geomatics & HSE activities	General	L		Self-operated Agent 51
06	Upstream Consultancy Services							
	01	Specialized Sub-surface Consultancy Services						
	04	Production Technology Consultancy	SC3060104		General	L		Self-operated Agent 30 51
	04	Integrated Full Field Review	SC3060400	The provision to conduct full field review study	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated 30
	06	Subsea Specialised Study	SC3060600	The provision of special consultancy services including but not limited to Constructability/ Installability, Commissioning / Startup, Material / Fluid Compatibility Analysis, Fatigue/Dynamic Analysis, HSE / Risk & Reliability Assurance work (i.e. RAM, FMECA, HAZOP, HAZID, Engineering Verification, etc.) for subsea facilities	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated 30
	08	Integrated Operations Consultancy & Services	SC3060800	The provision to conduct engineering study, services, Maintenance of Integrated Operations (e.g. SmartCen, Smart Well, Smart Field, Data Historian, Collaboration Centre, Upstream Modeling and Analysis Software, Optimization System, Data Quality Assurance, Information Management)	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated Agent 30 51
	09	Specialized Drilling and Completion Consultancy	SC3060900	Provision of Specialized Drilling Studies (i.e. Borehole Stability, Sand Management, Geomechanic, Deepwater Riser Analysis, Deepwater Conductor Design, Drilling Optimisation, Underbalanced Drilling, Wellhead Fatigue Analysis etc) and Services	General	L		Self-operated Agent 30 51
07	Computerized Inspection & Maintenance Consultancy Services		SC3070000		General	L/R		Self-operated 51
08	Business & ICT Consultancy							
	01	Business Consultancy						
	01	HR Consultancy	SC3080101	The provision of human resource consultancy services, such as benchmarking of organisation, salary, job position, etc.	General	L/R		Self-operated 30
	02	Brand Consultancy	SC3080102	The provision of brand consultancy services, e.g. brand health, mystery shopper, customer experience, customer satisfaction survey, etc.	General	L/R		Self-operated 30
	03	Finance Consultancy	SC3080103	The provision of finance consultancy services, e.g. finance related process enhancement, benchmarking, best practices, etc.	General	L/R		Self-operated 30
	04	Business Sustainability Consultancy	SC3080104	The provision of business sustainability consultancy services, such as social / culture / environment impact study, customer satisfaction survey, etc.	General	L/R		Self-operated 30

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	03	ICT Consultancy	SC3080300	The provision of manpower, services and project management for ICT consultancy	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated Agent	30 51
09	Research Management								
	01	R&D Drilling & Well Technology	SC3090100	The provision to conduct R&D for drilling & well technology	General	L		Self-operated	30
	09	R&D Additives	SC3090900	The provision to conduct R&D for R&D additives	General	L		Self-operated	30
	11	R&D Chemicals	SC3091100	The provision to conduct R&D for R&D chemicals	General	L		Self-operated	30
10	Laboratory Services								
	01	HSE Laboratory Services	SC3100100	The provision of HSE laboratory services for Chemical / Biological/Environment monitoring (mercury, heavy metal) & radiological, fire forensic, hydrocarbon finger printing, wastes	General	L/R	Skim Akreditasi Makmal Malaysia (SAMM)	Self-operated	30
	02	External Laboratory Analysis Services	SC3100200	The provision of external laboratory analysis services for sample testing	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
	03	Laboratory Equipment Calibration Services	SC3100300	The provision of calibration services for laboratory equipment and apparatus	Strategic	L/R	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
	04	Laboratory Consultancy Services	SC3100400	The provision of Laboratory Consultancy Services for benchmarking program, Proficiency Testing program, ISO 17025, lab management & quality system enhancement and etc	General	L/R		Self-operated	30
	05	Laboratory Equipment Repair & Maintenance Services	SC3100500	The provision of repair and maintenance services for laboratory equipment and apparatus	General	L/R		Self-operated	30
	06	Laboratory Operation Services	SC3100600	The provision of analysis, equipment calibration, repair & maintenance, consultancy and associated services in laboratory operation services	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated	30
11	Specialised Skill Training								
	01	ICT Training Services	SC3110100	The provision of manpower, materials, equipment, services and facilities for ICT training	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
	02	Safety, Survival & Specialised Skills Training & Consultancy							
	01	Regulatory	SC3110201	The provision of HSE regulatory training (e.g. safety and health officer, hygiene technician, radiation protection officer/supervisor, scaffold inspector and others as required under regulatory requirements)	General	L/R		Self-operated	51
	02	Non-regulatory	SC3110202	The provision of manpower, facilities and equipment for HSE awareness and skill training	General	L/R		Self-operated	30
12	Documentation & Quality Management								
	01	Documentation Management	SC3120100	The provision of manpower, materials, equipment, services and facilities for documentation management consultancy	General	L/R		Self-operated	30
	02	Quality Management	SC3120200	The provision of certification / accreditation assessment consultancy, such as ISO, etc	General	L/R		Self-operated	30
13	Building Design Services								

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	01	Architectural	SC3130100	The provision of manpower, services and project management for architectural design and installation works	General	L/R	Firm must be registered with "Lembaga Arkitek Malaysia (LAM)"	Self-operated	51
	02	Landscape Design	SC3130200	The provision of manpower, services and project management for landscape design and installation works	General	L/R		Self-operated	30
15	Well Control Consultancy		SC3150000	Provision of well control prevention, blowout contingency planning and consultancy services	Strategic	L	Refer to Min Tech Requirement (MTR) SC3	Self-operated Agent	30 51
SE1	ELECTRICAL ENGINEERING & MAINTENANCE								
	01	Maintenance of Electrical Facilities/Equip. (HV/LV)							
	01	Generator	SE1010100	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, rewinding, refurbish, maintenance, testing and commissioning of Generator	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	02	Batteries	SE1010200	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, maintenance, testing and commissioning of batteries	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	03	Transformer	SE1010300	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, overhaul, rewinding, refurbish, oil filtration and regeneration, maintenance, testing and commissioning of transformer	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	04	Cathodic Protection Services		SE1010400		L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	05	Uninterrupted Power Supply (UPS) System		SE1010500	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of AC/DC UPS system	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	06	Electrical Motor							
	01	Explosion Proof	SE1010601	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, bearing replacement, rewinding, troubleshooting, maintenance, testing and commissioning of explosion proof motors	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O) Explosion proof certification from approved EX certifying body (i.e: SIRA)	Self-operated	51

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		03	Non-Explosion Proof	SE1010603	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, bearing replacement, rewinding, troubleshooting, maintenance, testing and commissioning of Non-explosion proof motors	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O)	Self-operated	51
		07	Switchgear							
		01	IMCS (Intelligent Motor Control System)	SE1010701	To design, assemble, supply, install, hook up, testing, commissioning, maintenance and training of Intelligent Motor Control System	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		04	HV Switchgear	SE1010704	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, servicing, testing and commissioning of HV Switchgear inclusive of HV busduct	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		05	LV Switchgear	SE1010705	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, servicing, testing and commissioning of LV Switchgear inclusive of LV busduct	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		08	General Electrical Services	SE1010800	The provision of labour, materials, consumables, equipment and facilities necessary to undertake the general electrical services E.g. Bulbs, Fuses, Light Fittings, Tester, Distribution Panel, Junction Box, Remote Control Unit (RCU), MCCB, MCB, etc.	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		10	Protection Relay	SE1011000	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrade, maintenance, calibrate, test and commission of Protection Relay	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		11	Earthing, Lightning Protection System & Surge Protection Materials	SE1011100	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of Earthing System, Lightning Protection System & Surge Protection Materials	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		12	Aircraft Warning Light & System	SE1011200	The provision of labour, materials, consumables, equipment and facilities necessary for repair troubleshooting, maintenance, testing and commissioning of aircraft warning light & system	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		13	Electrical Heater							

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
		01	Heat Tracing System	SE1011301	The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning Heat Tracing System	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Agent	51
		02	Process Heater	SE1011302	The provision of labour, materials, manpower, consumables, equipment and facilities necessary for cleaning, repair, troubleshooting, maintenance, testing and commissioning of Process Heater	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Agent	51
		14	Telecontrol & Substation Automation System	SE1011400	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, troubleshooting, testing and commissioning of Electrical Network Monitoring and Control System	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
		15	Variable Speed Drives and Soft Starter	SE1011500	The provision of labour, materials, consumables, equipment and facilities necessary for cleaning, repair, upgrading, maintenance, testing and commissioning of Variable Speed Drive and Soft Starter System	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
	02	Electrical Cabling & Wiring Works		SE1020000	The provision of labour, materials, consumables, equipment and facilities necessary to troubleshoot cable fault, jointing, cable laying, test and commission Cable & Wiring	General	L/R	Suruhanjaya Tenaga (ST) for Company Semenanjung Malaysia and Sabah Certificate of Registration as an Electrical Installation Contractor (EIC) issued by Director of Electricity Supply, Sarawak (Form O).	Self-operated	51
SE2 ENG. DESIGN, ARCH. & DRAUGHTING SERVICES										
	01	Engineering Design								
		01	Major Engineering - Conceptual Engineering Design / FEED / Detailed Design	SE2010100	The provision to perform major engineering works include Conceptual Engineering Design / FEED / Detailed Design with required deliverables to be used for subsequent Engineering stage, Procurement, Fabrication, Installation, Commissioning and Start-Up of the facilities (for onshore or offshore) Example of deliverables for Conceptual engineering design are Concept Layouts, HSE Philosophies, Process Flow Diagram, Simulation Report, etc. Example of deliverables for FEED / Detailed Design are Data Sheets, Project Execution Plan, Control Strategy and System Overview Sketches, HSE plan, P&IDs, Weight Management, Transportation, Installation, Risk Assessment, etc.	Strategic	L	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		03	Specific Engineering							
		01	Electrical	SE2010301	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category				SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
		02	Pipeline	SE2010302	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		03	Civil & Structural	SE2010303	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		04	Mechanical & Piping	SE2010304	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		05	Process	SE2010305	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		06	Control & Instrumentation	SE2010306	Specific Engineering Services scope is to undertake small scale projects, e.g. specific platform/plant modification, retrofitting, rejuvenation engineering for the various disciplines.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		04	Subsea Engineering Services	SE2010400	The provision of engineering services including but not limited to Feasibility Study, Concept Select Study and Front End Engineering Design (FEED) services and follow on engineering activities & technical support throughout the detailed design, manufacturing, installation and pre-commissioning phase.	Strategic	L	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
		05	Naval Architecture and Marine Engineering	SE2010500	The provision to perform engineering works include Feasibility Studies / Conceptual Engineering Design / FEED / Detailed Design / Special Consultancy Services, which required deliverables to be used for subsequent Engineering stage, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities such as Spar, TLP, Semi FPS, FPSO, CALM buoy, etc. The provision of Special Consultancy Services such as Integrity Management System, Constructability/ Installability, Commissioning / Startup, Material Selection Analysis, Stability, Hydrodynamics, Mooring Analysis, Anchor Design, Structural Design Analysis, Riser Analysis, Appurtenance Design, Finite Element Analysis, Model Testing, Fatigue/Dynamic Analysis, Engineering Verification etc. for Floating Production System (FPS) and any Advance Analysis required during project execution.	Strategic	L	Refer to Min Tech Requirement (MTR) SE2	Self-operated Agent	30 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	06	Offshore Novel Facilities Engineering	SE2010600	The provision to perform Offshore Novel Facilities engineering works include Conceptual Engineering Design / FEED / Detailed Design with required deliverables to be used for subsequent Engineering stage, Procurement, Fabrication, Installation, Commissioning and Start-Up of the facilities for offshore fixed and offshore floating platform. Offshore Novel Facilities is defined as a new or an unconventional technology / facility (e.g. hull / substructure / topsides / pipeline) to PETRONAS and a proven concept (proof of concept as a paper study or R&D Experiments as define by TRL ruler in PETRONAS Technology Guidelines). (e.g. Buoyant Tower, Multicolumn Floater, Deep draft Column, Seahorse platform and etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SE2	Self-operated Agent	30 51
02	Draughting Services		SE2020000	The provision of draughting services (e.g. As-built drawing)	General	L		Self-operated	30
03	Engineering Commissioning Services		SE2030000	The provision of engineering commissioning services for precommissioning, startup, commissioning	Strategic	L	Refer to Min Tech Requirement (MTR) SE2	Self-operated	30
04	Deepwater								
	01	Concept / FEED							
	03	Pipeline / Riser	SE2040103	The provision of engineering feasibility study, conceptual design and Front End Engineering Design services for Pipeline/ Riser for deepwater fields	Strategic	L	Refer to Min Tech Requirement (MTR) Deepwater	Self-operated	30
SF2 FLOATING & MOBILE OFFSHORE FACILITIES									
01	Floating Offshore Facilities		SF2010000	Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for floating offshore facilities which include new-built / conversion / refurbishment / supply/ operation / maintenance. (e.g. FPSO, FSO , TLP, SPAR, Semi-sub, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SF2	Self-operated Agent	30 51
02	Mobile Offshore Facilities		SF2020000	Provision to perform Engineering, Procurement, Fabrication, Installation, Commissioning and Start-Up the facilities for Mobile Offshore Facilities which includes new-built / conversion / refurbishment / supply / operation / maintenance (e.g. MOPU, MODU, MOPSU, MOAB, and etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SF2	Self-operated Agent	30 51
SG1 GEOLOGICAL SERVICES									
01	Sample Analysis								
	01	Routine Rock Sample Analysis	SG1010100	The provision of routine rock sample analysis for structural geology, geochemistry, biostratigraphy, sedimentology and petrophysical analyses in Malaysia	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	02	Routine Fluid Sample Analysis	SG1010200	The provision of routine fluids sample analysis for geochemistry & reservoir fluid studies , PVT, crude, gas & water in Malaysia	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	03	Specialized Sample Analysis	SG1010300	The provision of specialized sample analysis (e.g. fluid inclusion, carbon isotope, GC/MS/MS, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
03	Modeling Services								
	01	Structural Geology	SG1030100	The provision of structural geology / geomechanics modelling services (e.g. fault seal analysis, regional structural trend, fracture)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	02	Geochemistry & Basin	SG1030200	The provision of geochemical & basin modelling services	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	05	Pore Pressure Prediction	SG1030500	The provision of pore pressure prediction modelling	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	06	Reservoir	SG1030600	The provision of reservoir modelling services (i.e. static and dynamic)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
04	Geological Fieldwork	SG1040000	The provision of geological fieldwork (e.g. structural geology, geochemistry, biostratigraphy, sedimentology, unconventional, etc.)	General	L		Self-operated	30	
05	Sample / Data Preservation, Handling & Transportation								
	01	Rock Sample	SG1050100	The provision of sample handling, storage and transportation of rock sample	General	L		Self-operated	30
	02	Fluid Sample	SG1050200	The provision of sample handling, storage and transportation of fluid (PVT Fluid Sample)	General	L		Self-operated	30
08	Geological Feasibility / Prospecting / Reconnaissance Study	SG1080000	The provision of personnel & equipment to conduct study and propose optimal solution to acquire and process geological data. (e.g. surface geochemistry, Time Lapse, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51	
09	Geological Analysis While Drilling	SG1090000	The provision of geological analysis while drilling (e.g. biostratigraphy, geochemistry, sedimentology, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51	
SG2	GEOPHYSICAL SERVICES								
01	Magnetic & Gravity Survey								
	01	Magnetic & Gravity Survey - Aerial	SG2010100	The provision of personnel, equipment & services for aeromagnetic & gravity data acquisition, processing & interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
	03	Magnetic & Gravity Survey - Land	SG2010300	Provision of personnel, equipments & services for land magnetic & gravity data for G & G interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	04	Magnetic & Gravity Data Interpretation	SG2010400	The provision of personnel, equipment & services for magnetic & gravity data processing/reprocessing and interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
02	Seismic Services								
	01	Marine Seismic Data Acquisition							
	01	Marine Seismic Data Acquisition - 2D	SG2020101	The provision of personnel, equipments & services for 2D marine seismic data acquisition	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	02	Marine Seismic Data Acquisition - 3D/4D	SG2020102	The provision of personnel, equipment & services for 3D / 4D marine seismic data acquisition	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	03	Multicomponent Seismic Acquisition	SG2020103	The provision of personnel, equipment & services for multicomponent seismic data acquisition (i.e. OBC, OBN & OBS)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	04	Transition Zone Seismic Data Acquisition	SG2020104	The provision of personnel, equipments & services for transition zone (near shore <20m water depth) seismic data acquisition	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	02	Land Seismic Data Acquisition	SG2020200	The provision of personnel, equipment & services for 2D & 3D land seismic data acquisition	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	03	Seismic Data Processing/Reprocessing	SG2020300	The provision of personnel, equipment & services for seismic data processing/reprocessing	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	04	G&G Data Interpretation Services	SG2020400	The provision of personnel, equipment & services for G&G data interpretation services	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	05	G&G Interpretation/Mapping Systems	SG2020500	The provision of purchase/lease of equipment & maintenance services for G&G Interpretation/mapping systems	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	06	Seismic Modeling							
	02	Seismic Modelling Services	SG2020602	The provision of personnel, equipment & services for seismic modelling services (e.g. seismic inversion, AVO, rock property inversion)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
03	Electromagnetic Services								
	01	Electromagnetic Survey – Land	SG2030100	The provision of personnel, equipment & services for land electromagnetic data acquisition, processing and interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
	02	Electromagnetic Survey – Marine	SG2030200	The provision of personnel, equipment & services for marine electromagnetic data acquisition, processing and interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
	03	Electromagnetic Data Processing / Reprocessing	SG2030300	The provision of personnel, equipment & services for electromagnetic data processing / reprocessing and interpretation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
	04	Electromagnetic Feasibility Study	SG2030400	The provision of personnel & equipment to conduct study and propose an optimal survey design to acquire and process electromagnetic data	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
05	General Geophysical Data Services								
	01	Geological & Geophysical Data Storage	SG2050100	The provision of services for geological & geophysical data storage (e.g. core, fluid, cutting sample, seismic, navigation, gravity, magnetic, electromagnetic, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	51
	02	Other Geological & Geophysical Services	SG2050200	The provision of services for tape copying, digitising, plotting, formatting, scanning, vectorising	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	51
06	Geophysical Feasibility Study		SG2060000	The provision of personnel & equipment to conduct study and propose optimal solution to acquire and process geophysical data. (e.g. Time-lapse, multi-component, reservoir characterization, illumination, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Agent	51
SG3	GEOMATICS SERVICES								
01	General Survey								
	01	Oceanographic Survey	SG3010100	Provision of personnel, equipment & services (including analysis, study and advice) to collect and analyze metocean data	Strategic	L/R	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51
	02	Hydrographic Survey	SG3010200	Provision of personnel, equipment, boat & services to map seabed topography	General	L		Self-operated	30
	03	Topographical & Engineering Survey	SG3010300	Provision of personnel, equipment & services to map land topography and man made features	General	L/R		Self-operated	30
	04	Meteorological Services	SG3010400	Provision of personnel, equipment & services (including analysis, study and advice), to provide weather forecast report and studies	Strategic	L/R	Refer to Min Tech Requirement (MTR) SG	Self-operated Agent	30 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category			SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	05	3-D Structural Survey	SG3010500	Provision of personnel, equipment & Services to map surface/underwater natural & man made structure using terrestrial / underwater 3D scanning	General	L		Self-operated	30
	02	Positioning							
	01	Positioning – Offshore	SG3020100	Provision of personnel, equipment & services to determine the position for drilling, engineering and seismic activities (offshore), Vessel Management System (VMS)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	02	Positioning – Onshore	SG3020200	Provision of personnel, equipment & services to determine the position for drilling, engineering and seismic activities (onshore)	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	03	Site Investigation							
	01	Site Investigation – Offshore	SG3030100	Provision of personnel, equipment & services for analogue [bathymetry, side scan sonar, sub-bottom profiler (including AUV for deepwater)], digital survey & drop core for Well, Platform & Pipeline (Offshore) site investigation	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	02	Site Investigation – Onshore	SG3030200	Provision of personnel, equipment & services for topographical data for Well, Platform & Pipeline (Onshore) site investigation, Underground Utilities Detection	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
	04	Remote Sensing	SG3040000	Provision of personnel, equipment & services for acquisition of remote sensing data (satellite, radar images) & services for geological, geophysical & geomatics application	Strategic	L	Refer to Min Tech Requirement (MTR) SG	Self-operated	30
SH1 HOISTING & LIFTING EQUIPMENT REPAIRS & MAINTENANCE									
	01	Cranes							
	01	Overhead Cranes	SH1010100	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of overhead cranes	Strategic	L/R	DOSH – “Surat sebagai syarikat pembuat struktur mesin angkat”	Self-operated	30
	02	Offshore Crane	SH1010200	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of offshore cranes	Strategic	L	DOSH – “Surat sebagai syarikat pembuat struktur mesin angkat”	Self-operated	51
	03	Mobile Crane	SH1010300	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of mobile cranes	General	L/R		Self-operated	51
	02	Hoists	SH1020000	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of hoists	General	L/R		Self-operated	51
	03	Elevator / Lifts	SH1030000	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of elevator / lifts	General	L/R	DOSH - Pemasang, Penyelenggara & Pemasang Lif, Eskalator & Dumbwaiter	Self-operated	0
	04	Forklift	SH1040000	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of forklift	General	L/R		Self-operated	30

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES

Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)		
05	Winches	SH1050000	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of winches	General	L/R		Self-operated	30		
06	Skylift	SH1060000	The provision of manpower, materials, consumables, equipment and facilities necessary for overhaul, refurbish, maintenance, testing and certificate validation of skylift	General	L/R		Self-operated	51		
08	Wire Rope	SH1080000	The provision of manpower, consumables, equipment and facilities for testing and certificate validation of wire rope	General	L/R		Self-operated	30		
SH2 HEALTH, SAFETY, ENVIRONMENT (HSE) & SECURITY										
01	Monitoring, Treatment & Disposal of Scheduled Waste									
	01	Scheduled Waste Treatment								
		01	On-Site Scheduled Waste Treatment	SH2010101	The provision of manpower, materials, consumables, equipment and facilities in Malaysia necessary for on-site scheduled waste	General	L/R		Self-operated	51
		02	Off-Site Scheduled Waste Treatment	SH2010102	The provision of manpower, materials, consumables, equipment and facilities in Malaysia necessary for off-site scheduled waste	General	L/R	DOE – “Lesen Pemerolehan Kembali Luar Tapak”	Self-operated	51
		03	Scheduled Waste Recycle & Recovery	SH2010103	The provision of manpower, materials, consumables, equipment and facilities in Malaysia necessary for scheduled waste recycle	General	L/R	DOE – “Lesen Pemerolehan Kembali Luar Tapak”	Self-operated	51
	02	Scheduled Waste Transportation		SH2010200	The provision of manpower, equipment and transportation for scheduled waste transportation	General	L/R	DOE – “Lesen Pengangkutan Buangan Terjadual”	Self-operated	51
	03	Scheduled Waste Disposal		SH2010300	The provision of manpower, equipment, transportation and facilities for scheduled waste disposal	General	L/R	DOE – “Lesen Pemerolehan Kembali Luar Tapak”	Self-operated	51
	04	Biological / Clinical Waste Disposal		SH2010400	The provision of manpower, equipment, transportation and facilities for biological/clinical waste disposal	General	L/R	DOE – “Lesen Pemerolehan Kembali Luar Tapak”	Self-operated	30
	05	Radioactive Waste Disposal		SH2010500	The provision of manpower, equipment, transportation and facilities for disposal of radioactive waste	General	L/R	Approved/valid license (Class A and H) from AELB specifically for Technically Enhanced Naturally Occurring Radioactive Materials (TENORM)	Self-operated	51
	06	Off-Site Scheduled Waste Storage Services		SH2010600	The provision of manpower, equipment and facilities for off-site scheduled waste storage services	General	L/R	DOE – “Lesen Penstoran Luar Tapak”	Self-operated	51
02	Spill Control Support & Clean-up Services									
	01	Oil Spill Control Support & Clean-up Services		SH2020100	The provision of manpower, materials, consumables and equipment for oil spill control support & clean-up services	General	L/R		Self-operated	51
	02	Chemical Spill Control Support & Clean-up Services		SH2020200	The provision of manpower, materials, consumables and equipment for chemical (solid or liquid) spill control support & clean-up services	General	L/R		Self-operated	51
03	Decontamination Services		SH2030000	The provision of manpower, materials, consumables and equipment for decontamination services (e.g. biological/chemical/radioactive contamination)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SH2	Self-operated	51	

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES


Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
04	Mercury Integrated Services	SH2040000	The provision of manpower, material, equipment, consumables and disposal for mercury integrated services inclusive of comprehensive HAZMAT (mercury) training, mercury mapping/survey, offline mercury decontamination, mercury waste handling, mercury HAZMAT supervision (monitoring), non-biological mercury analysis and Mercury Removal Unit (MRU) monitoring.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SH2	Self-operated	51
05	Remediation & Recovery Services							
01	Soil / Land Remediation	SH2050100	The provision of manpower, material, consumables and equipment to conduct soil/land remediation	General	L/R		Self-operated	51
07	Fire Detection & Protection System							
01	Fixed Fire Protection Systems	SH2070100	The provision of manpower, materials, consumables, equipment and facilities for maintenance and testing of fixed fire protection systems	General	L/R	CIDB - M	Self-operated	51
02	Mobile Fire Fighting Appliances Servicing	SH2070200	Fire trucks, fire extinguisher, fire hose / fire nozzle, foam branch	General	L/R	CIDB - M 'Sijil LULUS Kursus Keselamatan & Pencegahan Kebakaran' from Jabatan Bomba	Self-operated	51
08	Life Saving Appliances Services	SH2080000	The provision of manpower, material, consumables and equipment for life saving appliances services (e.g. SCBA, escape set, etc.)	General	L/R		Self-operated	51
09	Medical Specialized Services	SH2090000	The provision of medical specialized services in providing medical advice, treatment and medical assistance at facilities. (Include medevac for Injured Person (IP) to the hospital)	General	L/R	Registration with Ministry of Health (MoH) and Malaysia Medical Council (MMC)	Self-operated	51
10	HSE Equipment Maintenance & Calibration	SH2100000	The provision of manpower, material, consumables and equipment (e.g. noise equipment, gas meter, noise booth, Industrial	General	L/R		Self-operated	51
11	Security Services	SH2110000	The provision of security services not limited to site installation, cash in transit, and surveillance system inspection & maintenance	General	L/R	Kementerian Dalam Negeri (KDN) - Private Agency License	Self-operated	51
SI1	ICT SERVICES							
01	Data Management Services							
01	Backup & Restore Services	SI1010100	Provision of support for warranty and maintenance of backup & restore services	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
02	Storage & Retrieval of Backup Media	SI1010200	Provision of support for warranty and maintenance of storage & retrieval of backup media including but not limited to magnetic storage media (e.g. hard disk, magnetic tape and etc.) and optical storage media (e.g. CD, DVD and etc.)	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
03	Disaster Recovery Subscription Services	SI1010300	Provision of support for warranty and maintenance of disaster recovery subscription services which is a continuation of technology infrastructure critical to ensure business continuity in the midst/after disruptive events.	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
04	Computer Storage	SI1010400	Provision of support for warranty and maintenance of tape library and peripherals.	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category		SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
02 Hardware Services									
	01	Hardware Support Services	SI1020100	The provision of manpower, materials, equipment, services and facilities for hardware support services (e.g. installation, repair, maintenance, troubleshoot, migration, etc.)	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
	03	Smart Card & Related Services	SI1020300	Provision of support for warranty and maintenance of smart card & related services	General	L/R	1. Manpower: min of 1 ICT/EE personnel	Self-operated	51
03 Voice and Data Communications Services									
	01	Network Design, Configuration & Installation and Maintenance for ICT Voice & Data Communication and Facilities in Malaysia	SI1030100	The provision of labor, materials, consumables, equipment and Facilities in Malaysia necessary for repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of ICT voice and data communication network.	General	L/R	CIDB - category E	Self-operated	51
	02	Telecom Leased Line	SI1030200	The provision of labor, materials, consumables, equipment and Facilities in Malaysia necessary for leased line services inclusive of testing and commissioning (e.g. ISDN, Metro-E, etc.)	General	L/R		Self-operated	51
	03	ICT Network Cabling Maintenance	SI1030300	The provision of maintenance for support and warranty of ICT network cabling including but not limited to fiber optic and copper cables	General	L/R	CIDB – category E01, E02, E03, E04, E07, E08, E09, E10, E12, E14 and/or C31	Self-operated	51
04 Software Services									
	01	Software Development Services	SI1040100	The provision of development and support services of software product including but not limited to design, research, development, prototyping, modification, reuse, re-engineering, maintenance and any other activities that result in software products.	General	L/R		Agent	51
05 Specialised Services									
	01	Retail Automation Solution	SI1050100		General	L/R		Self-operated	30
	02	ICT Datacenter Hosting Services	SI1050200	The provision of services including but not limited to hosting of physical servers, virtual servers, high performance computing equipment, virtual storage on the Storage Area Network, backup and restore services and other ICT hosting services in a secure, resilient and controlled environment.	General	L/R		Self-operated	30
	06	ICT Audit Services	SI1060000	The provision of ICT Audit services in order to obtain evidence to determine if the information system are safeguarding assets, maintaining data integrity and operating effectively including but not limited to technology innovation process audit, innovation comparison audit, technological position audit and etc.	General	L/R		Agent	51
SI2 INSTRUMENTATION / CONTROL ENGINEERING & MAINTENANCE									
01 Actuated Valves									
	01	Pneumatic Actuated Valve	SI2010100	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Pneumatic Actuated Valve	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	04	Motor Operated Valve	SI2010400	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Motor Operated Valve	General	L/R		Agent	51
	05	Regulator	SI2010500	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Process Regulator/Self Regulating Valve	General	L/R		Self-operated	51
	06	Solenoid Operated Valve (SOV)	SI2010600	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Solenoid Operated Valve (SOV)	General	L/R		Self-operated	51
	07	Hydraulic Actuated Valve	SI2010700	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Hydraulic Actuated Valve	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Agent	51
	08	Thermostatic Valve	SI2010800	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Thermostatic Valves	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Self-operated Agent	51 51
	10	Special Application Valve	SI2011000	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, overhaul, refurbish, maintenance, testing and commissioning of Special Application Valve such as Cryogenic valve, Severe Service valve, Special design Valve, Oxygen Service valve	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Agent	51
02	Pneumatic/Hydraulic Instrumentation Systems								
	01	Pneumatic/Hydraulic Controllers	SI2020100	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, maintenance, testing and commissioning of Pneumatic/Hydraulic Controllers	General	L/R		Self-operated	51
	02	Pneumatic/Hydraulic Transmitters	SI2020200	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, maintenance, testing and commissioning of Pneumatic/Hydraulic Transmitters	General	L/R		Self-operated	51
03	Electronic/Digital Instrumentation/Systems								
	01	Electronic/Digital Controllers	SI2030100	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, maintenance, troubleshooting, testing and commissioning of Electronic/Digital Controllers	General	L/R		Agent	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category			SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	02	DCS & PLC	SI2030200	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Digital Control System (DCS) and Programmable Logic Controller (PLC)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Agent	51
	03	Electronic/Digital Transmitters	SI2030300	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, maintenance, troubleshooting, testing and calibration of Electronic/Digital Transmitters including In-line flow meter, tank gauging system	General	L/R		Self-operated	51
	05	Safeguarding / Safety System	SI2030500	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Safeguarding / Safety System	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Agent	51
	06	Turbo Machineries Instrument	SI2030600	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Turbo Machineries Instrument	Strategic	L/R	Refer to Min Tech Requirement (MTR) SI2	Agent	51
05	Field Instrumentation Maintenance								
	02	Advanced Process Control System (APCS)	SI2050200		General	L/R		Self-operated	51
	03	Fiber Optics	SI2050300	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Fiber Optics	General	L/R		Self-operated	51
	04	Instrument Cabling & Wiring Works	SI2050400	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of	General	L/R		Self-operated	51
	05	Pilot Ignitor & Flame Scanner	SI2050500	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Pilot Ignitor & Flame Scanner	General	L/R		Agent	51
	06	Multiphase Flow Meter	SI2050600	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Multiphase Flow Meter	General	L/R		Agent	51
	07	Analyser/QMI Process Instruments and Sampling System							

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category				SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
		01	General Analyser/QMI Process Instruments, Analyzer House and Sampling System	SI2050701	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of General Analyser / QMI Process Instruments Including liquid & gas analyser application such as mercury, H ₂ S, CO ₂ , portable analyzer and Analyzer Shelter / House	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51 51
		02	Gas Chromatograph and Sampling System	SI2050702	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Gas Chromatograph and Sampling System	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51 51
		03	Continuous Emission Monitoring System (CEMS) and sampling system	SI2050703	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Continuous Emission Monitoring System (CEMS) and sampling system	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51 51
		04	Specialized Analyzer	SI2050704	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, upgrading, change out/replacement, troubleshooting, testing and commissioning of Specialized Analyzer E.g. mass spectrometer, Tunable Laser Diode (TLD), Near Infrared (NIR) and etc	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51 51
	07	Regulatory Certification								
		01	Instrument Calibration & Validation	SI2070100	The provision of labour, consumables, equipment and Facilities in Malaysia necessary for testing, calibration and validation such as metering system. Equipment used for such work for trade purposes is to be traceable to SIRIM and International standard.	General	L/R		Self-operated	51
		02	Calibration of Measurement System	SI2070200	The provision of labour, consumables, equipment and Facilities in Malaysia necessary for testing, calibration and validation of measurement system for primary test equipment traceable to national and international standard	General	L/R	SIRIM certified	Self-operated	51
	08	Fire & Gas Detection & Alarm System		SI2080000	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for cleaning, repair, refurbish, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of Fire & Gas Detection & Alarm System. inclusive of smoke and heat detection, Infra-red heat detection, flammable and toxic gas detection, alarm panels	Strategic	L/R	CIDB - M	Agent	51
	09	Radioactive Based Instrument Maintenance		SI2090000	The provision of labour, consumables, equipments and Facilities in Malaysia necessary for testing, calibration, repair, replacement, transportation and removal of Radioactive Based Instrument	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51 51
	10	Telecommunication Services								

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category		SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
	01	Network Design, Configuration & Installation and Maintenance for Secured Voice & Data Communication and Facilities in Malaysia	SI2100100	The provision of labor, materials, consumables, equipment and Facilities in Malaysia necessary for repair, upgrading, change out/replacement, modification, maintenance, troubleshooting, testing and commissioning of secured voice and data communication network.	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	51
	02	Telecommunication System Leased Services	SI2100200	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for design, repair, upgrading, change out / replacement, modification, maintenance, troubleshooting, testing and commissioning of Telecommunication System Leased Services (e.g. VSAT, Fibre Optic, DTRS, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	51
11	Security Equipment and Surveillance System Maintenance		SI2110000	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for design, repair, upgrading, change out / replacement, modification, maintenance, troubleshooting, testing and commissioning of Security Equipment and Surveillance System Maintenance (e.g. Access control, CCTV, PAGA, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated Agent	51
12	General Instrument Maintenance		SI2120000	The provision of labour, materials, consumables, equipment and Facilities in Malaysia necessary for design, repair, upgrading, change out / replacement, modification, maintenance, troubleshooting, testing and commissioning of general instrument maintenance	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	51
SL1	LAND TRANSPORTATION & SUPPORT SERVICES								
	02	Transport Operations							
	01	Trucking Services							
	01	Conventional Truck/General Cargo Truck –payload 10 ton & below	SL1020101	The provision of transportation service using conventional truck / general cargo truck with payload 10 ton & below to transport products (e.g. finished goods, raw materials, equipment, LPG cylinders, etc.)	General	L/R		Self-operated	30
	03	Conventional Truck/General Cargo Truck – payload 10 ton & above	SL1020103	The provision of transportation service using conventional truck / general cargo truck with payload above 10 ton to transport products (e.g. finished goods, raw materials, equipment, LPG cylinders, etc.)	General	L/R		Self-operated	30
	02	Road Tanker							
	01	Bulk Fuel Product	SL1020201	The provision of transportation services using road tanker to transport bulk fuel products (e.g. jet fuel, gasoline, diesel, bitumen, etc.)	General	L/R		Self-operated	30
	02	NGV	SL1020202	The provision of transportation services using road tanker to transport NGV products	General	L/R		Self-operated	30
	03	Bulk LPG	SL1020203	The provision of transportation services using road tanker to transport bulk LPG products	General	L/R		Self-operated	30
	04	Chemical	SL1020204	The provision of transportation services using road tanker to transport chemical products	General	L/R		Self-operated	30
	03	Haulage	SL1020300	The provision of transportation services using prime mover and trailer to transport containerized goods	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	06	Passenger Vehicle							
	01	Bus	SL1020601	The provision of transportation services using bus	General	L/R	Ministry of Tourism Malaysia – “Lesen Perniagaan Pengendalian Pelancongan Dalam Negeri”	Self-operated	51
	02	Van & Car	SL1020602	The provision of transportation services using van & car	General	L/R	Ministry of Tourism Malaysia – “Lesen Perniagaan Pengendalian Pelancongan Dalam Negeri”	Self-operated	51
	07	Rail	SL1020700	The provision of transportation services using rail to transport goods (e.g. chemicals, containerized goods, pipes, etc.)	General	L/R		Self-operated	51
	08	Riverine	SL1020800	Provision for Transportation Service using Riverine Operation to carry petroleum product	General	R		Self-operated	0
SL2	LEASING & RENTAL								
	01	Land, Building, Portacabins, Supply Base & Canopy							
	02	Portacabins and Portable Toilets Leasing/Rental	SL2010200	Leasing or rental of portacabins and portable toilets including the manpower, materials, equipment, services and facilities required for the construction, maintenance and dismantling	General	L/R		Self-operated	51
	03	Supply Base Leasing/Rental	SL2010300	Leasing or rental of supply base for warehouse, storage, office	Strategic	L/R	Refer to Min Tech Requirement (MTR) Services	Self-operated	51
	06	Leasing/Rental of Canopy	SL2010600	Leasing or rental of canopy, including other related facilities, e.g. tables, chairs, fans, lightings, etc.	General	L/R		Self-operated	51
	02	Industrial Equipments							
	01	Rotating Equipments Leasing/Rental	SL2020100		General	L/R		Self-operated	30
	03	Electrical Equipments Leasing/Rental	SL2020300	Leasing or rental of electrical equipment. e.g. Load Bank, Portable Generator Set, etc.	General	L/R		Self-operated	51
	04	Instrument Test Equipment Leasing/Rental	SL2020400	The provision of labour, consumables, equipment and Facilities in Malaysia necessary for testing and monitoring of plant measurement application for instrumentation	General	L/R		Self-operated	51
	03	Lifting Equipment							
	02	Heavy Lift Services (> 300 tonne)	SL2030200	The provision of services / rental / supply of heavy lift equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) SL2	Self-operated	51
	03	Mobile Crane Services	SL2030300	The provision of services / rental / supply of onshore mobile crane (e.g. truck mounted, all / rough terrain, crawler crane, ringer crane) for plant maintenance services, construction or during plant turnaround	General	L/R		Self-operated	30
	04	Container							
	02	Container Boxes Leasing/Rental	SL2040200		General	L/R		Self-operated	51
	05	Bulking Services							
			SL2050000		General	L/R		Self-operated	30
	06	ICT Equipment							
	01	Hardware							
	01	PC Leasing/Rental	SL2060101	The provision of leasing/rental services for personal computer equipment	General	L/R		Self-operated	51
	02	Server & Storage Leasing/Rental	SL2060102	The provision of leasing/rental services for servers and storage equipment	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category			SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	05	Photocopier, Printer & Facsimile Leasing / Rental	SL2060105	The provision of leasing/rental services for photocopier, printer & facsimile equipment	General	L/R		Self-operated	51
	03	Telecom Equipment Leasing/Rental	SL2060300	The provision of leasing/rental services for telecommunication equipment	General	L/R		Self-operated	51
	04	Software License Leasing	SL2060400	The provision of leasing / rental services for software and licensing subscription including but not limited to Microsoft Office, Microsoft	General	L/R		Self-operated Agent	30 51
	05	End User Device Leasing / Rental	SL2060500	The provision of leasing / rental services for end user devices including but not limited to tablet device, smart phone and etc.	General	L/R		Self-operated	51
	07	Leasing/Rental of Office & Household Equipments	SL2070000	Leasing or rental of office and household equipments, e.g. electrical appliances and etc.	General	L/R		Self-operated	51
SM1 MAIL & CARGO TRANSPORT									
	01	Shipping Agency Services							
	01	Clearance of Vessel							
	01	Immigration Clearance	SM1010101		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Crew Changes for Clearance of Vessel	SM1010102		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Customs Clearance							
	01	Issuance of Port Clearance	SM1010201		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Sealing of Vessel Bonded Stores	SM1010202		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	03	Port Health Clearance							
	01	Vessel Status	SM1010301		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Deratting Certification	SM1010302		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	04	Harbour Master Clearance							
	01	Crew Changes for Harbour Master Clearance	SM1010401		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	05	Victualling							
	01	Provision Supply to Vessel	SM1010501		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Bonded Stores Supply to Vessel	SM1010502		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	06	Master Cash Advance	SM1010600		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	07	Terminal							
	01	Request Berthing Prospects	SM1010701		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	02	Vessel Performance	SM1010702		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	03	Port Costs	SM1010703		General	L/R	Approval from Jabatan Kastam Eksais Diraja Malaysia	Self-operated	100
	03	Cargo Transport							

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES


Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/ General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	01	Air Cargo Transport	SM1030100		General	L/R	"Lesen Pembawa A" by LPKP-Lembaga Pelesenan Kenderaan Perdagangan (under the company's name)	Self-operated	100
	03	Marine Cargo Transport	SM1030300		General	L/R	"Lesen Pembawa A" by LPKP-Lembaga Pelesenan Kenderaan Perdagangan (under the company's name)	Self-operated	100
06	Freight Forwarding Services								
	04	Freight Forwarding Services-Upstream	SM1060400	The provision of freight forwarding services for upstream operations to facilitate product delivery process (e.g. preparation of documents for customs declaration, customs clearance, etc.)	General	L/R	Royal Malaysian Customs Department – "Surat Kelulusan menjadi Agen Penghantaran"	Self-operated	51
	05	Freight Forwarding Services-Downstream	SM1060500	The provision of freight forwarding services for downstream operations to facilitate product delivery process (e.g. preparation of documents for customs declaration, customs clearance, etc.) inclusion of pallet fumigation	General	R	Royal Malaysian Customs Department – "Surat Kelulusan menjadi Agen Penghantaran"	Self-operated	51
SM2	MANPOWER SUPPLY								
01	General Manpower								
	01	Labour Supply	SM2010100		General	L/R		Self-operated	51
	02	Security Personnel	SM2010200	The provision of manpower and equipment for security personnel services. (e.g. security advisor, private investigator, etc.)	General	L/R		Self-operated	100
	03	General Manpower for Office Services	SM2010300	To supply non-technical manpower for office services, e.g. clerk, supervisor, secretaries, executives, etc.	General	L/R		Self-operated	51
02	Skilled Manpower								
	01	Technician	SM2020100	To supply skilled technician	General	L/R		Self-operated	51
	02	Electrical	SM2020200	To supply skilled electrical manpower such as Technician/ Electrician, PW1 Wireman – PW4 Wireman, A0 Chargeman - A4 Chargeman, B0 Chargeman - B4 Chargeman	General	L/R		Self-operated	51
	03	Telecon	SM2020300		General	L/R		Self-operated	51
	04	Coded Welders	SM2020400	To supply skilled coded welder	General	L/R		Self-operated	51
	05	Radio, Telex, Switchboard Operators	SM2020500		General	L/R		Self-operated	51
	06	Machinist	SM2020600	To supply skilled machinist	General	L/R		Self-operated	51
	08	Offshore Crane Operator	SM2020800	To supply skilled offshore crane operator	General	L/R		Self-operated	51
	09	Instrument	SM2020900	To supply skilled Instrument manpower (e.g. fitter, supervisor, foremen, etc.)	General	L/R		Self-operated	51
	10	Welding Inspector	SM2021000	To supply welding inspector	General	L/R		Self-operated	51
	11	Painting Inspector	SM2021100	To supply painting inspector	General	L/R		Self-operated	51
	12	Drilling, Completion and Workover Support Staff	SM2021200	The provision of Drilling, Completion and Workover Support Staff	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	51
03	Specialist Manpower								
	01	HSE Specialist	SM2030100	The provision of HSE Specialist (e.g. Safety Health Officer, Site Supervisor, Chemical Health Risk Assessment Assessor, HAZOP team leader, Medic, etc.)	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
	02	Construction Technical Personnel	SM2030200	To supply skilled construction technical personnel	General	L/R		Self-operated	51
	03	Material Corrosion & Inspection Specialist	SM2030300	To supply technical manpower for MCI services (e.g. QAQC engineer, Corrosion engineer, Material Engineer, Welding Engineer, Integrity Engineer, etc.)	General	L/R		Self-operated	51
	04	Specialist Mechanical / Piping	SM2030400	To supply mechanical/piping specialist (e.g. Piping Specialist, Fired/Unfired Pressure Vessel Specialist and etc.)	General	L/R		Self-operated	30
	05	Specialist Electrical	SM2030500	To supply specialist electrical manpower such as Electrical Visiting Engineer, Electrical Energy Manager	General	L/R		Self-operated	30
	06	Specialist Instrumentation	SM2030600	To supply specialist Instrumentation manpower such as OEM specialist, highly skilled personnel	General	L/R		Self-operated	30
	07	Specialist Civil & Structural	SM2030700	To supply specialist civil & structural personnel	General	L/R		Self-operated	51
	08	Specialist Process	SM2030800	To supply manpower specialist in the field of Process, Utility & Waste Water and Advance Control	General	L/R		Self-operated	51
	09	Specialist Pipeline	SM2030900	To supply specialist pipeline manpower, e.g. pipeline designer, pipeline commissioning specialist and pipeline construction specialist,	General	L/R		Self-operated	51
	10	Marine Specialist/Consultant	SM2031000	Provision to supply competent manpower for Marine operation e.g. Pilot, Rig Mover, Loading Master, Marine Controller, Marine Inspector, Survey, etc.	General	L/R		Self-operated	51
	11	Lecturing & Training Personnel	SM2031100	To supply lecturing & training personnel	General	L/R		Self-operated	51
	12	Specialist Mechanical Rotating	SM2031200	To supply specialist mechanical rotating manpower, e.g. OEM Specialist, Rotating Equipment Specialist, etc.	General	L/R		Self-operated Agent	30 51
	13	Drilling, Completion and Workover Specialist	SM2031300	The provision of drilling, completion and workover specialist	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	51
	14	Naval Architect	SM2031400	Provision to supply experienced and competent manpower for naval architecture in the field of mooring, hydrodynamics and stability.	General	L		Self-operated	51
	15	Subsea Specialist	SM2031500	The provision of subsea specialist	General	L		Self-operated	51
	16	Geoscience Specialist	SM2031600	The provision of geoscience specialist	Strategic	L	Refer to Min Tech Requirement (MTR)	Self-operated	51
SM3	MARINE TRANSPORTATION & SUPPORT SERVICES								
	01	Marine Vessels							
	01	Anchor Handling Tug (AHT) / Anchor Handling Tug & Supply (AHTS) / Tow Tug Boat							
	01	Anchor Handling Tug (AHT) / Anchor Handling Tug & Supply (AHTS) / Tow Tug Boat 100 tonne and below bollard pull	SM3010101	The provision of AHT / AHTS / Tow Tug Boat 100 tonne and below bollard pull including personnel to supply oil rigs, transport liquid / bulk cargo, stores, materials and equipment, tow oil rigs to location, anchor oil rig and serve as an emergency rescue and recovery vessel (ERRV)	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30
	02	Anchor Handling Tug (AHT) / Anchor Handling Tug & Supply (AHTS) / Tow Tug Boat above 100 tonne bollard pull	SM3010102	The provision of AHT / AHTS / Tow Tug Boat above 100 tonne bollard pull including personnel to supply oil rigs, transport liquid / bulk cargo, stores, materials and equipment, tow oil rigs to location, anchor oil rig and serve as an emergency rescue and recovery vessel (ERRV)	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	02	Accommodation Work / Construction							
	01	Self-propelled Accommodation Vessel / Floatel / Work Boat		SM3010201	The provision of self-propelled Accommodation Vessel / Floatel / Work Boat including personnel to accommodate work personnel and crew with a degree of comfort and safety, with deck space or materials work area and crane, e.g. offshore floating warehouse, Lift Boat with Jack-up system	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30 51 51
	02	Non-propelled Accommodation / Construction / Barge		SM3010202	The provision of non-propelled Accommodation / Construction Barge including personnel to accommodate work personnel and crew with a degree of comfort and safety, with deck space or materials work area and crane. The barge is fully fitted with equipments to undertake a variety of offshore tasks, e.g. outfitted and equipped for pipe laying, lifting work and other related duties	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30 51 51
	03	Fast Crew Boat / Supply Crew Boat							
	01	Fast Crew Boat / Supply Crew Boat – 20 knot and below		SM3010301	The provision of Fast Crew Boat / Supply Crew Boat – 20 knot and below including personnel to provide personnel transportation from base to / from offshore location or within fields. (e.g. Surfer and etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30
	02	Fast Crew Boat / Supply Crew Boat – above 20 knot		SM3010302	The provision of Fast Crew Boat / Supply Crew Boat – above 20 knot including personnel to provide personnel transportation from base to / from offshore location or within fields (e.g. Surfer and etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30
	04	Safety Standby / General Purpose / Utility Vessel		SM3010400	The provision of Safety Standby Vessel including personnel at location or within field to provide assistance to emergency demobilization of offshore crew in the event of rig, platform, MODU, MOPU or offshore facilities being abandoned. General Purpose / Utility Vessel including personnel for transporting goods, personnel between platforms, standby boat and chaser boat	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30 51 51
	05	Supply Vessel							
	01	Straight Supply Vessel		SM3010501	The provision of Straight Supply Vessel including personnel to transport liquid / bulk cargo, stores, materials and equipment, or to transport personnel and materials between platforms / rigs	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30
	02	Platform Supply Vessel		SM3010502	The provision of Platform Supply Vessel including personnel to transport liquid / bulk cargo, stores, materials and equipment, or to transport personnel and materials between platforms and drilling rigs. The vessel is normally used for deepwater operations	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30 51 51
	07	Landing Craft Tank		SM3010700	The provision of Landing Craft Tank including personnel, specially designed to be flat-bottomed for transportation and supply of food, water and oil. Normally use for shallow water / river operation	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent 30 51 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	08	Survey Vessel	SM3010800	The provision of Survey Vessel including personnel, designed and equipped to carry out survey at sea for the purpose of hydrography, general oceanography, environmental, etc.	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51
	10	Tug Vessel	SM3011000	The provision of Offshore and/or Harbour Tug / Vessel including personnel to assist tankers / commercial vessel during off-take (E.g. FPSO, FSO and FLNG) and towing dumb barge	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51
	11	Dumb/Flat Top / Transportation Barge	SM3011100	The provision of Dumb / Flat Top / Transportation Barge including personnel to transport materials and equipments. It is a long, large, usually flat-bottomed barge, generally designed with absence of its own means of mechanical propulsion and to be towed or pushed by other craft, such as tug boat	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51
	12	Diving Support Vessel	SM3011200	The provision of Diving Support Vessel including personnel used as a floating base for professional diving projects below or around oil production platforms and associated installations. The vessel can be fitted with dynamic positioning system (DP)	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51
	14	Pilot Boat	SM3011400	The provision of pilot vessel to transport pilot for mooring & unmooring operation	General	L		Vessel owner-operator Vessel operator Agent	30 51
	19	Bunkering Services	SM3011900	The provision to supply bunker for marine vessel upstream and downstream	General	L/R		Self-operated	51
	21	Ship							
	01	Chemical Tankers	SM3012101	The provision of chemical tankers and personnel for transportation, storage of chemical products	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51
	02	Crude Oil Tanker	SM3012102	The provision of crude oil tankers and personnel for transportation, storage of crude oil	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51
	03	LNG Tankers	SM3012103	The provision of LNG tankers and personnel for transportation, storage of LNG products	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator	30 51
	04	LPG Tankers	SM3012104	The provision of LPG tankers and personnel for transportation, storage of LPG products	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator	30 51
	05	Petroleum Product Tankers	SM3012105	The provision of Petroleum Product tankers and personnel for transportation, storage of petroleum products	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51
	06	Bulk Carrier	SM3012106	The provision of Bulk Carriers and personnel for transportation, storage of bulk materials	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator	30 51
	07	Liner / Container Vessel	SM3012107	The provision of Liner / Container Vessel and personnel for transportation of containers	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator	30 51
	08	Ro-Ro/Car Carrier	SM3012108		General	R	Certificate - Registry of vessel Master of Foreign Going/Master Mariner Class 1	Vessel owner-operator Vessel operator	30 51
	22	Ship Brokers	SM3012200		General	L		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
	24	Shipping Agency Services	SM3012400	The provision of personnel for shipping agency services including but not limited (E.g. Clearance of Vessel, Customs Clearance, Port Health Clearance, Harbour Master Clearance, Victualling, Master Cash Advance, etc.)	General	L/R		Self-operated	51
	26	Floating Liquid Mud Plant / Barge (FLMP)	SM3012600	The provision of Floating Liquid Mud Plant / Barge (FLMP) including personnel to provide liquid storage and facilities offshore for drilling operation. It may be equipped with mixing	Strategic	L	Refer to Min Tech Requirement (MTR) SM3	Vessel owner-operator Vessel operator Agent	30 51 51
	27	Passenger Ferry	SM3012700	The provision of passenger ferry including personnel to provide personnel transportation from base to / from onshore operation. Normally use in riverine activities	General	L/R	River Board Authority	Vessel owner-operator Vessel operator	30 51
02	Vessel Cleaning Services		SM3020000		General	L/R		Self-operated	51
03	Marine/Ship Repairs & Maintenance								
	01	Main Engine							
	01	Specialised Repairs	SM3030101		General	L/R		Self-operated	51
	02	Turbocharger	SM3030102		General	L/R		Self-operated	51
	03	Governor	SM3030103		General	L/R		Self-operated	51
	04	Automation	SM3030104		General	L/R		Self-operated	51
	02	Auxiliary Engine							
	01	Specialised Repairs	SM3030201		General	L/R		Self-operated	30
	02	Turbocharger	SM3030202		General	L/R		Self-operated	30
	03	Governor	SM3030203		General	L/R		Self-operated	30
	03	Boilers & Economisers							
	01	Specialised Repairs	SM3030301		General	L/R		Self-operated	51
	02	Retubing	SM3030302		General	L/R		Self-operated	51
	03	Chemical Cleaning	SM3030303		General	L/R		Self-operated	51
	04	Deck & Engine Cranes	SM3030400		General	L/R		Self-operated	51
	05	Oily Discharge & Monitoring Equipment (ODME)	SM3030500		General	L/R		Self-operated	30
	14	Automation/Control & Instrumentation							
	01	Electrical, Electronic, Pneumatic, Hydraulics	SM3031401		General	L/R		Self-operated	51
	02	Alarm Monitoring Systems	SM3031402		General	L/R		Self-operated	51
	03	Level Gauging System	SM3031403		General	L/R		Self-operated	51
	15	Cargo Pumping System							
	01	Submerged	SM3031501		General	L/R		Self-operated	30
	02	Centrifugal	SM3031502		General	L/R		Self-operated	51
	03	Screw	SM3031503		General	L/R		Self-operated	30
	04	Gear	SM3031504		General	L/R		Self-operated	30
	05	Steam Reciprocating	SM3031505		General	L/R		Self-operated	30
	16	Navigation & Communications Equipment	SM3031600		General	L/R		Self-operated	30
	17	Steam Turbines (Pumps & Turbo Generators)	SM3031700		General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
	18	Tank Cleaning Equipment	SM3031800	General	L/R		Self-operated	51	
	19	Reconditioning	SM3031900	General	L/R		Self-operated	51	
	20	Air-Conditioning & Refrigeration Repairs	SM3032000	General	L/R		Self-operated	51	
	21	Heat Exchangers & Air Coolers							
	01	Tube	SM3032101	General	L/R		Self-operated	51	
	02	Plate	SM3032102	General	L/R		Self-operated	51	
	23	Shipyard							
	01	Shipbuilding	SM3032301	General	L/R		Self-operated	30	
	02	FPSO/FSO (Building)	SM3032302	General	L/R		Self-operated	30	
	06	Drydocking / Maintenance	SM3032306	General	L/R		Self-operated	30	
	24	General Shiprepairs							
	01	Mechanical	SM3032401	General	L/R	Workshop	Self-operated	51	
	02	Electrical & Electronic	SM3032402	General	L/R		Self-operated	51	
04	Marine Operations Services								
	01	Cleaning and Disposal Services	SM3040100	General	L/R	The provision of personnel and equipment to carry out cleaning work and waste disposal. E.g. Pump Room, Cargo Tank, Fuel Oil Tank, Ballast Tank, Engine Room, Main Deck, etc.	Self-operated	51	
	02	Thickness Gauging, Non-Destructive Tests Services	SM3040200	General	L/R		Self-operated	51	
	04	Liferaft Servicing	SM3040400	General	L/R		Self-operated	51	
	06	Service/Repair of Fire Detection System	SM3040600	General	L/R	Fire Watch Permit from Jabatan Bomba	Self-operated	30	
	07	Calibration of Measuring Instruments	SM3040700	General	L/R		Self-operated	30	
	08	Service of Power Packs	SM3040800	General	L/R		Self-operated	30	
	09	Installation of Parts & Equipment	SM3040900	General	L/R		Self-operated	51	
	10	Shipchandling / Ship Provisions	SM3041000	General	L/R		Self-operated	30	
	11	Classification Society Survey	SM3041100	Strategic	L/R	The provision of carrying out classification for offshore structure	Refer to Min Tech Requirement (MTR) SM3	Self-operated	30
	12	Specialised Survey							
	01	Quality Surveying Services	SM3041201	General	L/R	The provision of personnel and equipment to carry out the quality surveying services / quality analysis. E.g. Crude oil, produced water, etc.	Self-operated	51	
	02	Damage Survey by Salvage Association Surveyor	SM3041202	General	L/R		Self-operated	51	
	03	Hull & Machinery Survey	SM3041203	General	L/R		Self-operated	51	
	04	Machinery Survey for Safety	SM3041204	General	L/R		Self-operated	51	
	05	Radio Survey	SM3041205	General	L/R		Self-operated	30	
	07	Quantity Surveying Services	SM3041207	General	L/R	The provision of personnel and equipment to carry out the quantity surveying services . E.g. Crude oil, diesel, brine, etc.	Self-operated	51	
	13	Marine Vessel Salvage Services	SM3041300	General	L/R		Self-operated	30	

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES


Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/ General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	19	Marine Inspection / Audit / Survey	SM3041900	Provision of manpower to conduct marine inspection / audit / survey works (e.g. DP audit, Marine Warranty Survey, HSE audit, etc.)	General	L/R		Self-operated	51
	20	Vessel Tracking and Monitoring System	SM3042000	The provision of manpower and equipment to monitor movement of vessels	General	L		Agent	51
	21	Fuel Monitoring System	SM3042100	The provision of manpower and equipment to monitor fuel consumption	General	L		Agent	51
05	Marine Services								
	01	Precool, Repairing Internal Machinery	SM3050100		General	L/R	Registration With Lembaga Pelabuhan	Self-operated	30
	02	Lashing, Mooring / Unmooring & Liftings	SM3050200		General	L/R	Registration With Lembaga Pelabuhan	Self-operated	30
	03	Washing, Repair and Supply Parts & Equipment	SM3050300		General	L/R	Registration With Lembaga Pelabuhan	Self-operated	30
	04	Stuffing & Unstuffing of Containers	SM3050400		General	L/R	Registration With Lembaga Pelabuhan	Self-operated	30
	14	Marine Security Services	SM3051400	The provision of manpower, equipment and vessel for Marine security services and supervision of security personnel	General	L/R		Self-operated	51
06	Marine Systems for Repairs & Services								
	01	Single Point Mooring System							
	01	Buoy	SM3060101	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Buoy for Single Point Mooring System	General	L		Self-operated Agent	30 51
	02	Hose System	SM3060102	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Hose System for Single Point Mooring System	General	L		Self-operated Agent	30 51
	03	Mooring System	SM3060103	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Mooring System for Single Point Mooring System	General	L		Self-operated Agent	30 51
	02	Jetty							
	01	Mooring System	SM3060201	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Mooring System for Jetty. E.g. quick release hook, etc.	General	L		Self-operated	30
	02	Fendering System	SM3060202	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Fendering System for Jetty. E.g. Single mooring point, jetty, boat landing for offshore platform, etc.	General	L		Self-operated Agent	30 51
	03	Product System	SM3060203	Provision of labour, materials, consumables, equipments and facilities necessary for repair, maintenance, testing and commissioning of Product System for Jetty. E.g. loading arm, cargo hoses, etc.	General	L		Self-operated	30
SM4	MARKETING & SALES SUPPORT								

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES


Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)		
01	Advertising									
	01	Advertising Agency Services								
		01	Creative Advertising - Above The Line (ATL)	SM4010101	Developer of creative concept and content to be published in any mainstream media which provides advertising space in order to publish an advertisement i.e. billboard ads, print ads inclusive of magazine and newspaper, television ads, radio ads, online ads etc. This also includes public relations in marketing communication to hype up campaigns.	General	L/R		Self-operated	30
		02	Creative Advertising - Below The Line (BTL)	SM4010102	Developer of creative concept and content to be published NOT in any mainstream media which provides advertising space in order to publish an advertisement i.e. leaflets, brochures, book/document cover, digital etc. This also includes the production of exhibition, merchandise, montage, activation and on-ground activities.	General	L/R		Self-operated	51
		02	Media Advertising	SM4010200	Media planner, media buyer and an agent to procure advertising space from mainstream media (i.e. media owner) in order to publish an advertisement i.e. billboard ads, print ads inclusive of magazine and newspaper, television ads, radio ads, online ads etc.	General	L/R		Self-operated	51
03	Events Management		SM4030000	1. Concept, design, construction and supply of materials and equipments 2. Supply of expertise in decorations, audio visual equipments, lightings and sound check/rehearsals 3. Manage the overall programme and activities for the event encompassing the F&B set-up and entertainment 4. Manage external emcee during the event including providing the emcee script 5. Supply sufficient manpower to execute the event effectively and efficiently including accommodation, meal and transportation arrangements for the services rendered	General	L/R		Self-operated	30	
05	Public Relations		SM4050000	The provision of public relations / general entertainment activities with regards to corporate image, communication to public / government,	General	L/R		Self-operated	30	
06	Exhibition Design & Construction		SM4060000	The provision of manpower, materials, equipment, services and facilities for exhibit (e.g. platform, pedestal, booth, etc.) design, construction, installation and dismantling	General	L/R		Self-operated	51	
SM5	MECHANICAL ENGINEERING & MAINTENANCE									
01	Stationary Equipment Repair & Maintenance									
		01	Non-Atmospheric Storage Tank							
		03	Cryogenic Storage Tank	SM5010103	The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, maintenance, testing and commissioning of cryogenic storage tank	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES


Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
		04	Intermediate Bulk Containers (IBC)	SM5010104	The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of IBC	General	R		Self-operated	30
		02	Boilers	SM5010200	The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, maintenance, pressure testing and commissioning of boilers	Strategic	L/R	DOSH – "Surat sebagai pembaikpuluh dandang stim"	Self-operated	51
		03	Columns, Stripper & Corrugated Plate Interceptor	SM5010300	The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, testing and maintenance of columns, strippers & corrugated	Strategic	L/R	DOSH - "Surat sebagai pembaikpuluh pengandung/bejana tekanan tak berapi"	Self-operated	51
		04	Heat Exchangers, Condensers & Cooler	SM5010400	The provision of manpower, materials, consumables, equipments and facilities necessary for cleaning, repair, maintenance, pressure testing and commissioning of heat exchanger (including condensers, cooler and air fin cooler)	Strategic	L/R	DOSH - "Surat sebagai pembaikpuluh pengandung/bejana tekanan tak berapi"	Self-operated	51
		05	Furnaces, Fired Heaters & Flares	SM5010500	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, maintenance, pressure testing and commissioning of furnaces, fired heaters & flares	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
		06	Reactors	SM5010600	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, testing and maintenance of reactors (excluding catalyst absorbant changeout)	Strategic	L/R	DOSH - "Surat sebagai pembaikpuluh pengandung/bejana tekanan tak berapi"	Self-operated	51
		07	Pressure & Unpressurized Vessel	SM5010700	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, repair, testing maintenance and commissioning of pressure & unpressurized vessels	Strategic	L/R	DOSH - "Surat sebagai pembaikpuluh pengandung/bejana tekanan tak berapi"	Self-operated	51
		08	Atmospheric Storage Tank							
		01	Hygienic Cleaning	SM5010801	The provision of manpower, materials, consumables, equipment and facilities necessary for hygienic cleaning, calibration and testing of atmospheric storage tank storing jet-fuel and diesel products in compliance to Aviation Authority requirement	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
		02	Cleaning, Repair & Maintenance	SM5010802	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning/manual desludging, repair, maintenance, calibration and testing of atmospheric storage tank storing white products/media (other than crude oil, LSWR, bitumen) in compliance to API:653 requirements	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
		03	Desludging, Recovery & Cleaning	SM5010803	The provision of manpower, materials, consumables, equipment and facilities necessary to remove the sludge of black products/media (crude oil, LSWR, bitumen) with recovery process whenever possible, and cleaning of storage tank/pond prior to repair and maintenance job at atmospheric tank/pond	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
		02	Rotating Equipment/Movables Repair & Maintenance							

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	01	Engines	SM5020100	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, performance test and commissioning of engine and auxiliaries	General	L/R		Self-operated Agent	51
	02	Turbines							
	01	Steam Turbine	SM5020201	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of steam turbine and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	02	Gas Turbine	SM5020202	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of gas turbine and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	03	Hydraulic Turbine	SM5020203	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment and performance test of hydraulic turbine and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	03	Compressors							
	01	Air Compressor	SM5020301	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of air compressor and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	03	Reciprocating / Screw Gas Compressor	SM5020303	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment, reciprocating compressor valve refurbishment (inclusive of leak test), performance test and commissioning of reciprocating / screw gas compressor and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	04	Centrifugal Gas Compressor	SM5020304	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, performance test and commissioning of centrifugal gas compressor and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	04	Pumps							
	01	Centrifugal Pump	SM5020401	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul and performance test of centrifugal pump and auxiliaries	General	L/R		Self-operated Agent	51
	02	Positive Displacement Pump	SM5020402	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul and performance test of positive displacement pump and auxiliaries	General	L/R		Self-operated Agent	51
	05	Blower & Fan	SM5020500	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair and overhaul of blowers and fans	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category			SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	06	Gear box	SM5020600	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair and overhaul of gear	General	L/R		Self-operated Agent	51
	07	Agitator, Mixer & Extruder	SM5020700	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair and overhaul of agitators, mixers and extruders	General	L/R		Self-operated Agent	51
	08	Mechanical seals							
	01	Dry gas seal	SM5020801	The provision of manpower, materials, consumables, equipment and facilities necessary for removal, refurbish, leak test and installation of dry gas seal and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	02	Wet Seal for Compressor / Expander	SM5020802	The provision of manpower, materials, consumables, equipment and facilities necessary for removal, refurbish, leak test and installation of wet seal and auxiliaries for compressor / expander	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	03	Mechanical Seal for Pump	SM5020803	The provision of manpower, materials, consumables, equipment and facilities necessary for removal, refurbish, leak test and installation of mechanical seal and auxiliaries for pump equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	09	Coupling	SM5020900	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair and balancing of	General	L/R		Self-operated Agent	51
	10	Conveyor System	SM5021000	The provision of manpower, materials, consumables, equipment and facilities necessary for inspection, maintenance, repair and troubleshooting of conveyor system and its associated equipment (e.g. bagging system)	General	R		Self-operated	51
	11	Vibrating Screen	SM5021100	The provision of labour, materials, consumables, equipments and facilities necessary for maintenance and repair of vibrating screen	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	12	Fuel Dispenser	SM5021200		Strategic	R		Self-operated	51
	13	Turbo Expander	SM5021300	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of turbo expander and auxiliaries	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated Agent	51
	14	Lube Oil Centrifuge and Purifier	SM5021400	The provision of manpower, materials, consumables, equipment and facilities necessary for maintenance, repair, overhaul, refurbishment, performance test and commissioning of lube oil centrifuge and purifier	General	L/R		Self-operated	51
03	Valves Repair & Maintenance								
	01	Mechanical Valve	SM5030100	The provision of manpower, materials, consumables, equipment and facilities necessary for repair, maintenance, testing and commissioning of mechanical valve	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	02	Relief Valve	SM5030200	The provision of manpower, materials, consumables, equipments and facilities necessary for repair, maintenance, testing, setting and commissioning of relief valve (including vacuum breaker & rupture disc)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	03	Governor Valve	SM5030300	The provision of labour, materials, consumables, equipments and facilities necessary for repair and maintenance of governor valve	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	04	Governor Valve Control	SM5030400	The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of governor control system	General	L/R		Self-operated Agent	51
04	Heating Ventilation Air Cond (HVAC)		SM5040000	The provision of manpower, materials, consumables, equipment and facilities necessary for inspection, repair and maintenance of HVAC	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
05	Loading Arm								
	01	Truck Loading Arm	SM5050100	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, inspection, troubleshooting, overhaul, repair, testing and maintenance of truck loading arm	General	R		Self-operated	51
	02	Marine Loading Arm	SM5050200	The provision of manpower, materials, consumables, equipment and facilities necessary for cleaning, inspection, troubleshooting, overhaul, repair, testing and maintenance of marine loading arm	General	R		Self-operated	51
06	Mechanical Equipment								
	01	Adjustment of Timing	SM5060100		General	L/R		Self-operated	51
08	Machining & Fabrication Workshop								
	01	Machining Workshop	SM5080100	The provision of manpower, materials, consumables, equipment and facilities necessary for workshop machining (inclusive of lathe, bending, drilling, grinding, cutting, shaping, milling, turning, balancing)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5 Excluding Cold Cutting & Flange Facing/Resurfacing - Upstream & Downstream Sectors for West Malaysia only (VDP)	Self-operated	51
	02	In-situ Machining	SM5080200	The provision of manpower, materials, consumables, equipment and facilities necessary for in-situ machining (inclusive of drilling, grinding, cutting, shaping, milling, turning, balancing)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5 Excluding Cold Cutting & Flange Facing/Resurfacing - Upstream & Downstream Sectors for West Malaysia only (VDP)	Self-operated	51
09	Piping & Structural Fabrication and Maintenance								
	01	Metallic - Carbon Steel, Stainless Steel, Non-Ferrous, Internally Lined Pipe etc	SM5090100	The provision of labour, materials, consumables, equipments and facilities necessary for fabrication, repair and maintenance of metallic piping, internally lined pipe and structure.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	02	Non-Metallic - PVC, Fibreglass (e.g. GRE, GRP etc.), PVC, HDPE, etc	SM5090200	The provision of manpower, materials, consumables, equipment and facilities necessary for fabrication, repair and maintenance of non-metallic piping and structure	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
10	Joint Integrity Services								
	01	Hydraulic Bolt Tensioning & Bolt Torquing Services	SM5100100	The provision of labour, materials, consumables, equipments and training necessary for hydraulic bolt tensioning and bolt torquing services	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
12	Insulation Work								
	01	Hot Insulation	SM5120100	The provision of hot insulation work	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	02	Cold Insulation	SM5120200	The provision of cold insulation work	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	03	Acoustic Insulation Work	SM5120300	The provision of acoustic insulation work	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	04	Personnel Protection Insulation	SM5120400	The provision of Personnel Protection insulation work	General	L/R		Self-operated	51
13	LPG Reticulation System		SM5130000	The provision of manpower, materials, equipment and facilities necessary for installation, requalification and maintenance of LPG bulk tank facilities	General	R	Suruhanjaya Tenaga (ST) or DOSH – Kontraktor Talian Paip (Gas) for Company in Semenanjung Malaysia and Sabah or Certificate of Electrical Installation Contractor (EIC) for Company Sarawak	Self-operated	51
14	Single Buoy Mooring (SBMs) System		SM5140000	The provision of manpower, diver, materials, consumables and equipments necessary for inspection, troubleshooting, repair, maintenance, change out and overhaul of SBMs system	Strategic	L/R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
16	Gas Cylinder								
	01	LPG Cylinder Maintenance	SM5160100	The provision of manpower, materials, equipment and facilities necessary for services and maintenance of LPG cylinder (i.e. repainting, requalification and reconditioning)	General	L/R		Self-operated	51
	03	LPG Pallet	SM5160300	The provision of manpower, materials, equipment and facilities necessary for services and maintenance of LPG pallet	General	R		Self-operated	30
17	Topside Facilities Maintenance								
	01	Topside Piping & Structural	SM5170100	The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of topside facilities (piping and structural)	Strategic	L	CIDB	Self-operated	51
	02	Living Quarters	SM5170200	The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of living quarters	Strategic	L/R	CIDB	Self-operated	51
18	Repair & Recertification of Escape Capsule		SM5180000		General	L/R		Self-operated	51
19	Survival Craft Services								
	01	Single Fall	SM5190100	Provision of servicing single fall survival craft	Strategic	L	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	02	Twin fall	SM5190200	Provision of servicing twin fall survival craft	Strategic	L	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	03	Free Fall	SM5190300	Provision of servicing free fall survival craft	Strategic	L	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	04	Life raft	SM5190400	Provision of life raft services	General	L	SOLAS(Safety of life at sea) IMO(International Maritime Organization)	Self-operated	51
21	Service Station Equipment								
	01	Fuel Dispenser & Accessories	SM5210100	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of fuel dispenser & accessories	General	R		Self-operated	51
	02	NGV Dispenser & Accessories	SM5210200	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of NGV dispenser & accessories	General	R		Self-operated	51
	03	Tire Inflator	SM5210300	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of tire inflator & accessories	General	R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	04	Chillers & Freezers	SM5210400	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of chillers, freezers & accessories	General	R		Self-operated	0
	05	Visual Element & Signage	SM5210500	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of visual element, signage & accessories	General	R		Self-operated	51
	06	Air Conditioning	SM5210600	The provision of manpower, materials, consumables, equipment and facilities necessary for services & maintenance of air conditioning & accessories	General	R		Self-operated	30
22	Repair & Maintenance of Automotive Workshop Equipment		SM5220000	The provision of manpower, materials, consumables, equipment and facilities necessary for repair and maintenance of automotive workshop equipment (e.g. hoist, tyre service equipment, lubricant service equipment and etc.)	General	R		Self-operated	30
23	Turnaround / Shutdown								
	01	Below 100k Manhours	SM5230100	The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown below 100k manhours not limited to mechanical defect works for static equipment, structural and piping.	Strategic	R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	02	100k – 350k Manhours	SM5230200	The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown between 100k – 350k manhours not limited to mechanical defect works for static equipment, structural and piping.	Strategic	R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	51
	03	More than 350k Manhours	SM5230300	The provision of manpower, materials, consumables, equipment and facilities necessary for integrated end-to-end planning and preparation, execution and sub-contractor management for Turnaround / Shutdown more than 350k manhours not limited to mechanical defect works for static equipment, structural and piping.	Strategic	R	Refer to Min Tech Requirement (MTR) SM5	Self-operated	0
SO1	OFFICE ADMINISTRATION SERVICES								
	01	Packing/Unpacking Services							
	01	Packing / Unpacking Personal Effects	SO1010100	The provision of packing / unpacking of personal effects including door-to-door transport services	General	L/R		Self-operated	51
	02	Packing / Unpacking Office Physical Record	SO1010200	The provision of packing / unpacking of office physical record including packing materials (e.g. wrapping material, security wrap, bar code, tag, boxes, etc.)	General	L/R		Self-operated	51
03	Printing, Binding, Photostating, Scanning & Digitising		SO1030000	The provision of printing, binding, photostating, scanning, digitizing and drawing reproduction	General	L/R	"Lesen mesin cetak" (KDN)	Self-operated	51
04	Provision of Photographic Services		SO1040000	The provision of labor, materials and equipment for photographic services	General	L/R		Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
05	Laundry & Dry Cleaning Services	SO1050000	The provision of laundry and dry cleaning services, including cleaning, drying and ironing	General	L/R		Self-operated	51
06	Audio/Visual Aid Program Production & Equipment	SO1060000	The provision of audio / visual aid program production and related services (e.g. video montage, filming, rental of audio / visual equipment, etc.)	General	L/R	CIDB - E01 - for large audio video set up If Video Prod/Documentary Film, must have FINAS & KDN licence in installation of equipments as permanent structure	Self-operated	51
11	Repair and Maintenance of Office Equipment/Supplies	SO1110000	The provision of labour, materials, equipment, services and facilities for the repair and maintenance of office equipment / supplies, e.g. copier, printer, projector, air-conditioning, water filters, etc.	General	L/R		Self-operated	51
12	Travel Agency & Facilitation Services	SO1120000	The provision of travelling support services, e.g. ticket booking, room reservations, transport arrangements, etc.	General	L/R	Registration with Ministry of Culture, Arts & Tourism Malaysia Excluding services at KLCC-Petronas Twin Towers	Self-operated	100
13	Medical Services	SO1130000	The provision of manpower, material, consumables, facility and equipment for management and operation of medical services (e.g. blood test, urine test, management & operation of medical clinics etc.)	General	L/R		Self-operated	51
14	Property Building / Management	SO1140000	The provision of labour, materials, equipment, services and facilities for property / building management	General	L/R		Self-operated	30
15	Property Maintenance Services							
01	Provision of Carpet, Blinds & Curtains	SO1150100	The provision of labour, materials, equipment, services and facilities for the installation & maintenance of carpet, blinds and curtains	General	L/R		Self-operated	51
02	Vector / Pest Control	SO1150200	The provision of labour, materials, equipment, services and facilities for vector / pest control services	General	L/R	1. Lesen Pengendali Kawalan Makhluk Perosak (Pesticide Operator License) dari Lembaga Racun Makhluk Perosak (Pesticide Board) 2.	Self-operated	100
03	Building Cleaning Services	SO1150300	The provision of labour, materials, equipment, services and facilities for building cleaning / housekeeping services	General	L/R		Self-operated	100
SO2 OFFSHORE FACILITIES CONSTRUCTION								
01	Offshore Construction							
01	Transportation & Installation of Offshore Facilities							
01	Lifting Method – Dynamic Positioning (DP) Vessel	SO2010101	The provision of PMT, transportation & installation engineering, procedures, DP derrick barge / vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
02	Lifting Method - Non-DP Vessel	SO2010102	The provision of PMT, transportation & installation engineering, procedures, derrick barge / vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, heavy lift rigging, piling, grouting, survey & positioning, ROV and other installation aids required for offshore installation	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category				SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
		03	Floatover or Other Methods	SO2010103	The provision of PMT, transportation & installation engineering, procedures, floatover barge / vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV and other installation aids required for offshore	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
		04	SBM & Subsea Structure	SO2010104	The provision of PMT, transportation & installation engineering, procedures, offshore construction barge / vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, piling, survey & positioning, ROV and other installation aids required for offshore installation	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
		05	Pipelay Conventional Method ('S' and/or 'J' Lay method)	SO2010105	The provision of PMT, transportation & installation engineering, procedures (including welding), pipeline installation barge / vessel inclusive of marine spread, construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation, shore approach works and pipeline pre-commissioning	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
		06	Tow, Reeling, Flexible and/or Other Methods	SO2010106	The provision of PMT, transportation & installation engineering, procedures (including welding), construction marine spread, pipe stringing facilities inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, field joint coating, NDT, consumables and other installation aids required for offshore installation and pre-commissioning	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
		07	Cable & Umbilical	SO2010107	The provision of PMT, transportation & installation engineering, procedures, cable & umbilical laying marine spread, inclusive of construction equipment, diving spread, qualified personnel, rigging, survey & positioning, ROV, consumables and other installation aids required for offshore installation and pre-commissioning	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	51 51
	02	Maintenance & Repairs of Offshore Facilities		SO2010200	The provision of labour, materials, consumables, equipments and facilities necessary for maintenance and repair of offshore facilities (topside, jacket and pipeline)	Strategic	L	CIDB M	Self-operated	30
	03	Hook-Up & Commissioning of Offshore Facilities		SO2010300	The provision of manpower, materials, consumables, equipment and services necessary for hook-up & commissioning (e.g. workpack development, onshore prefabrication, onshore testing & precommissioning, marine spreads,	Strategic	L	CIDB - Category CE15	Self-operated	30
	04	Decommissioning of Offshore Facilities		SO2010400	The provision of PMT, manpower, engineering, procedures, derrick barge / vessel inclusive of marine spread, transportation spread, decommissioning equipment, diving spread, ROV spread, heavy lift rigging, NDT services, survey & positioning, and specialize services which includes environmental & consultancy services required for decommissioning, removal and disposal of offshore facilities	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated Agent	30 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	05	Pipeline Pre-Commissioning & Commissioning	SO2010500	The provision of PMT, procedures, labour, equipment, services and facilities for offshore and onshore Pipeline cleaning, pigging, gauging, fill, hydrotest, dewatering, drying, inerting including provision of pigs, temporary launcher/receiver, materials & consumables	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated	51
	06	Marine Warranty Survey	SO2010600	The provision of suitability survey for installation vessel & supporting tugs/barges, witnessing, verifying, reviewing, approving procedure, attend installation activities and issue certificate of approval (platform, pipeline & subsea facilities), attend construction risk assessment and fabrication yard (trail fitting, dimensional check, sea-fastening & loud operation)	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated	51
02	Onshore Fabrication								
	01	Major Fabrication							
	01	Offshore Facilities	SO2020101	The provision of fabrication engineering, procurement, manpower, materials, consumables, equipment and facilities necessary for fabrication of offshore facilities including but not limited to mechanical, instrumentation, electrical, structural, testing & commissioning and load-out	Strategic	L	FROZEN for New & Extension of Scope (Exclusively managed by PETRONAS)	Self-operated	30
	02	Onshore Facilities	SO2020102	The provision of construction engineering, procurement, manpower, materials, consumables, equipment and facilities necessary for integrated construction work including but not limited to mechanical, instrumentation, electrical, structural and civil work. Typical onshore facilities e.g. terminal, gas processing plant, tank farm, etc.	Strategic	L/R	CIDB - related M/E category	Self-operated	30
	02	Minor Onshore Fabrication							
	01	Minor Onshore Fabrication - Civil Works	SO2020201	The provision of manpower, services, equipment, materials and facilities for minor civil onshore fabrication works	General	L	CIDB - Category CE21 ; Grade G3	Self-operated	51
	03	Minor Onshore Fabrication - Mechanical	SO2020203	The provision of manpower, services, equipment, materials and facilities for minor mechanical onshore fabrication works inclusive of structure	Strategic	L	CIDB M	Self-operated	51
	04	Minor Onshore Fabrication - Electrical & Instrumentation	SO2020204	The provision of manpower, services, equipment, materials and facilities for minor electrical & instrumentation onshore fabrication works (e.g. equipment installation and associated structural works)	Strategic	L/R	CIDB – related E category	Self-operated	51
	06	Minor Onshore Fabrication - Structural	SO2020206	The provision of manpower, services, equipment, materials and facilities for minor structural fabrication works (e.g. grating works, equipment installation and associated structural)	Strategic	L/R	CIDB – related CE / M category	Self-operated	51
	03	Onshore Fabrication - Commissioning of Specialist Electrical, HVAC & Instrumentation System	SO2020300		General	L		Self-operated	30
	04	Onshore Fabrication - Dry Tree Unit (DTU)	SO2020400		Strategic	L		Self-operated	30
	05	Onshore Fabrication - Surface Preparation and Painting	SO2020500	The provision of manpower, services, equipment, materials and facilities for Onshore Fabrication - Surface Preparation and Painting	Strategic	L	Refer to Min Tech Requirement (MTR) SO2	Self-operated	51
SP1	PIPELINE & ASSOCIATED SERVICES								

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category		SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
02	Pipeline Construction / Installation							
	01	Onshore Pipeline Construction						
		01 Onshore Pipeline Construction – General	SP1020101	Provision of labor, material, equipment, services and facilities for onshore general pipeline construction	Strategic	L/R	CIDB – Category CE DOSH registered as Pipeline Installer	Self-operated 30
	03	Anti-Corrosion & Concrete Pipeline Coating	SP1020300	Provision of labor, material, equipment, services and facilities for pipeline insulation coating (including hot, cold, corrosion coating, concrete weight coating and internal coating)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SP1	Self-operated 30
04	Pipeline Maintenance							
	01	Pipeline Cleaning, Inspection & Repair						
		01 Pipeline In-Line Inspection	SP1040101	Provision of labor, material, equipment, services and facilities for pipeline in-line inspection	Strategic	L/R	Refer to Min Tech Requirement (MTR) SP1	Self-operated Agent 30 51
		02 Pipeline Internal Cleaning (Cleaning Pigging)	SP1040102	Provision of labor, material, equipment, services and facilities for pipeline internal cleaning (Cleaning Pigging), such as refurbishment, management of operational activities, etc.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SP1	Self-operated Agent 30 51
		03 Pipeline Inspection & Repair						
		01 Onshore Pipeline Inspection & Repair	SP1040103	Provision of labor, material, equipment, services and facilities for Onshore Pipeline Inspection & Repair	General	L/R		Self-operated Agent 30 51
		02 Offshore Pipeline Inspection & Repair	SP1040105	Provision of labor, material, equipment, services and facilities for Offshore Pipeline Inspection & Repair	General	L		Self-operated Agent 30 51
		04 Riser Repair & Maintenance	SP1040104	Provision of labor, material, equipment, services and facilities for Riser Repair & Maintenance.	Strategic	L	Refer to Min Tech Requirement (MTR) SP1	Self-operated Agent 30 51
	02	Pig Trap Maintenance	SP1040200	The provision of manpower, material, equipment, services and facilities for pig trap repair & maintenance	General	L/R		Self-operated Agent 30 51
SP2	PRODUCTION / DRILLING / WORKOVER ASSOCIATED SERVICES							
01	Drilling Rigs							
	01	Offshore Rig						
		01 Jackup Rig Services	SP2010101	The provision of Jackup Rig including manpower, equipment, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent 51 30 51
		02 Tender Assisted	SP2010102	The provision of tender assisted including manpower, equipment, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent 51 30 51
		03 Drill Ship	SP2010103	The provision of drill ship including manpower, equipment, ROV, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent 51 30 51
		04 Self Contained/Platform Rig Services	SP2010104	The provision of self contained/platform rig services including manpower, equipment, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent 51 30 51
		05 Semi-Submersible	SP2010105	The provision of semi-submersible including manpower, equipment, ROV, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent 51 30 51
	02	Onshore Rig						

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category				SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
		01	Land Oilfield Rig Services	SP2010201	The provision of land oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent	51 30 51
		03	Swamp Barge Oilfield Rig Services	SP2010300	The provision of swamp barge oilfield rig services including manpower, equipment, consumables, and facilities necessary for drilling	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator	51 30
	02	Drilling Equipment Rental & Services		SP2020000	The provision of Drilling Equipment Rental and Services (E.g. Drill pipe, associated crossover, pup joints, personnel, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	03	Dedicated Workover Services								
		01	Hydraulic Workover Unit (HWU) / Workover Pulling Unit (WPU) & Services	SP2030100	The provision of Hydraulic Workover Unit (HWU) / Workover Pulling Unit (WPU) and qualified personnel / crew for onshore and offshore	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Rig operator Rig owner-operator Agent	51 30 51
		02	Snubbing Unit & Services	SP2030200	The provision of Snubbing unit and qualified personnel / crew for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
		03	Conventional Workover Rig	SP2030300	The provision of Conventional Workover Rig (CWR) and qualified personnel / crew for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
		04	Coiled Tubing Unit & Services	SP2030400	The provision of Coiled Tubing Unit (CTU) and qualified personnel / crew for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2 Excluding PETRONAS Carigali Sdn Bhd Operations (VDP)	Self-operated Agent	30 51
	04	Tubular Handling Equipment & Running Services		SP2040000	The provision of tubular running equipment, qualified personnel, maintenance, inspection and torque-turn for onshore and offshore services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	05	Oilfield Fishing Equipments & Services		SP2050000	The provision of fishing equipment / tools, qualified personnel, inspection and maintenance for onshore and offshore services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	06	Coring Equipment & Services		SP2060000	The provision of coring equipment, qualified personnel and maintenance for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	07	Borehole Survey / Gyro Survey Equipment & Services		SP2070000	The provision of borehole/gyro survey equipment, qualified personnel and engineering/technical support for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	08	Drilling/Completion Fluid & Services		SP2080000	The provision of mud engineering, materials (mud chemical and additives) and laboratory facilities for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	09	Drilling/Completion Fluid Filtration Equipment & Services		SP2090000	The provision of completion fluid filtration equipment and consumables, qualified personnel and equipment maintenance for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	10	Cementing Equipment & Services		SP2100000	The provision of cementing equipment / accessories, material (class G cement and cement additives), qualified personnel, laboratory facilities, inspection and maintenance for onshore and offshore services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	11	Well Killing and Pumping Services		SP2110000	The provision of Well Killing and Pumping Services including equipment and personnel.	General	L		Self-operated Agent	30 51
	12	Well Abandonment		SP2120000	The provision of Well Abandonment including equipment and personnel.	General	L		Self-operated Agent	30 51
	13	Directional Drilling , Gyro While Drilling , Measurement While Drilling and Logging While Drilling		SP2130000	The provision of directional drilling equipment/tools, qualified personnel, directional planning/engineering and maintenance for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
16	Mud Logging	SP2160000	The provision of equipment and services, special services (pressure detection), drill cuttings analysis and drilling parameter (Torque / Drag)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
17	Electric Logging & Services							
01	Open Hole Electric Logging & Services	SP2170100	The provision of Open-Hole Electric Logging, qualified personnel, equipment & services (off-shore and on-shore)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
02	Cased Hole Electric Logging & Services	SP2170200	The provision of Cased Hole Electric Logging, qualified personnel, equipment & services (off-shore and on-shore)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
20	Well Testing Equipment & Services	SP2200000	The provision of well testing equipment, qualified personnel, equipment maintenance, liquid and gas sampling/analysis for onshore and offshore services.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
21	Liner Hanger Equipment & Accessories	SP2210000	The provision to supply, deliver, assemble, install, test and maintain liner hanger equipment and accessories	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30
22	Well Perforation Equipment & Services							
01	Tubing Conveyed Perforation	SP2220100	The provision of Tubing Conveyed Perforating, Skilled Personnel and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
02	Coiled Tubing Well Perforating Services	SP2220200	The provision of Coiled Tubing Well Perforating, Skilled Personnel and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
03	Slickline Well Perforating Services	SP2220300	The provision of Slickline Well Perforating, Skilled Personnel and Services	General	L		Self-operated	51
04	Through Tubing Well Perforation Services	SP2220400	The provision of Through Tubing Well Perforation, Skilled Personnel and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
05	Electricline Well Perforating Services	SP2220500	The provision of Electricline Well Perforating, Skilled Personnel and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
06	Well Tubing Puncher Services	SP2220600	The provision of Well Tubing Puncher, Skilled Personnel and Services	General	L		Self-operated	51
23	Specialize Sand Control Equipment & Services							
01	Stand Alone Screen Equipment & Services	SP2230100	The provision of Standalone Sand Control Screen Equipment and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
02	Open & Cased Hole Gravel Packing Equipment & Services	SP2230200	The provision of Gravel Packing Equipment & Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
03	Expandable Sand Screen Equipment & Services	SP2230300	The provision of Expandable Sand Screen Equipment and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
24	Well Completion Equipment & Services	SP2240000	To supply , deliver, assemble, install and test completion equipment and accessories. (e.g. Subsurface Safety Valve, Packer, Nipple, Sliding Sleeves, Gaslift Mandrel & Accessories, Seal Assembly, Control Line and Protector and Tubular Accessories, etc.)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30
25	Tubular and Drill String Maintenance	SP2250000	Maintenance of tubulars (casings and tubings) and drill strings (drill pipes, drill collars, HW Drill Pipes etc) services	General	L		Self-operated Agent	30 51
26	Wellhead / Christmas Tree Equipment & Services							
04	Subsea Wellhead Maintenance and Services	SP2260400	The provision of manpower, materials, consumables, equipment and tools necessary for inspection, maintenance, repair and troubleshooting of subsea wellhead.	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	05	Surface Wellhead and Christmas Tree Maintenance and Services	SP2260500	The provision of manpower, materials, consumables, equipment and tools necessary for inspection, maintenance, repair and troubleshooting of surface wellhead.	Strategic	L/R	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
27	Slickline Equipment & Services		SP2270000	The provision of slickline equipment / tools, personnel and engineering / technical support for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
28	Artificial Lift Services								
	01	Electrical Submersible Pump (ESP)	SP2280100	To supply, deliver, install and maintenance of Electrical Submersible Pump (ESP)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	02	Gas Lift	SP2280200	To design, supply, deliver, install and maintenance of Gas Lift system	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30
	03	Other artificial lift system and services	SP2280300	To design, supply, deliver, install and maintenance of other artificial lift (E.g Progressive Cavity Pump, Rod Pumping)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30
29	Subsea Well Intervention or Completion Services		SP2290000	The provision of manpower, materials, consumables, equipment and tools necessary for subsea well Intervention Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
31	Specialised Drilling/Workover Services								
	01	Under Balance Drilling (UBD) and Managed Pressure Drilling	SP2310100	The provision of Under Balanced Drilling Equipment and Services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	02	Coiled Tubing Drilling (CTD) / Through Tubing Rotary Drilling (TTRD)	SP2310200	The provision of skilled personnel and equipment to perform Coiled Tubing Drilling / Through Tubing Rotary Drilling (this scope involves planning and logistics)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	03	Expandable Tubular	SP2310300	To supply, deliver, install and test/commission Expandable Tubular (i.e. Expandable liner)	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	04	Casing Drilling	SP2310400	The provision of casing drilling equipment and services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	05	Swell / Expandable Packer	SP2310500	To supply, deliver, install and test/commission Swell/ Expandable Packer	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	06	Smart / Intelligent Well System	SP2310600	To supply, deliver, install, test/commission and maintenance Intelligent/Smart Well System. (Complete with PDG and Flow Control Valve (FCV))	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
	08	Well Drilling Monitoring-Real Time Operation	SP2310800	The provision of well drilling monitoring-real time operation including personnel and services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	51
	10	Downhole Conveying Device	SP2311000	The provision of downhole conveying device including personnel and services	General	L		Self-operated	30
	11	Well Bore Cleanup Equipment and Services	SP2311100	The provision of well bore cleanup equipment and services including personnel	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
32	Drilling Waste & Solid Control Services		SP2320000	The provision of cutting dryers, centrifuge consumable and personnel for drilling waste & solid control services	General	L		Self-operated Agent	30 51
34	Well Leak Repair Services		SP2340000	The provision of well leak repair services including grouting	General	L		Self-operated Agent	30 51
35	Well Stimulation/Enhancement Services		SP2350000	The provision of stimulation equipment and chemicals, qualified personnel and equipment maintenance for onshore and offshore services	Strategic	L	Refer to Min Tech Requirement (MTR)	Self-operated	51
36	Pipe Threading		SP2360000	The provision of pipe threading facilities and services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
37	Rig Inspection Services	SP2370000	The provision of manpower to carry out technical acceptance of rig equipment and facilities, inspection and audit.	General	L		Self-operated	51
38	Crude Oil / Condensate	SP2380000	To witness, monitor and verify the quality and quantity measurement of crude oil received from offshore fields and delivery of crude oil for export via tankers or local processing	Strategic	L		Self-operated	30
39	Drilling jars & Other Down Hole Drilling	SP2390000	The provision of rental of drilling jar and other downhole equipment / other related tools for onshore and offshore services	General	L		Self-operated Agent	30 51
40	Drilling mud cooler equipment	SP2400000	The provision of drilling mud cooler equipment and services	General	L		Self-operated Agent	30 51
41	Well Control & Blowout Emergency Response	SP2410000	The provision of well control & blowout emergency response equipment, personnel and services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated Agent	30 51
42	Downhole Tractoring Services	SP2420000	The provision of downhole tractoring equipment and services	Strategic	L	Refer to Min Tech Requirement (MTR) SP2	Self-operated	30
43	Multiple Activation bypass	SP2430000	The provision of manpower, equipment and services (e.g. PBL, Well commander, etc.)	General	L		Self-operated Agent	30 51
SQ1 QUALITY ASSURANCE: MATERIAL, CORROSION & INSPECTION								
01	Non Destructive Test (NDT) Services							
01	Basic NDT	SQ1010100	Provision of manpower, equipment, consumables, facilities and safety gears to conduct basic NDT (i.e. UT, RT, DPI, MPI, PMI, Hardness, Ferrite Count)	General	L/R	Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
02	Advanced NDT							
01	Ultrasonic Testing	SQ1010201	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Advanced Ultrasonic Testing (e.g. PAUT, LRUT, Guided Wave, TOFD, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
02	Radiation testing	SQ1010202	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Advanced Radiation Testing (e.g. Computerized Radiographic testing, SafeRad, Neutron Radiographic, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
03	Radiotracer	SQ1010203	Provision of manpower, equipment, consumables, facilities and safety gears for radiotracer services	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
04	Hydrogen Attenuation	SQ1010204	Provision of manpower, equipment, consumables and safety gears for Hydrogen Attenuation	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
05	Thermography	SQ1010205	Provision of manpower, equipment, consumables and safety gears for Short and Long Wave thermography	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
06	Tube Inspection	SQ1010206	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Tube Testing (e.g. ECT, RFET, acoustic eyes, IRIS, MFL, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
07	Visual Aid Inspection	SQ1010207	Provision of manpower, equipment and safety gears for visual aid inspection (e.g. Boroscope, Videoscope, fibrescope, CCTV, Unmanned Autonomous Vehicle (UAV), etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECS) FOR SERVICES



Work Category			SWECS Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)	
		08	Acoustic Based Inspection	SQ1010208	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Acoustic Based Inspection (e.g. Acoustic Resonance, Acoustic Emission, Sand monitoring,	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1 Excluding Sabah & Labuan Operations (VDP)	Self-operated	30
		09	Pulse Eddy Current	SQ1010209	Provision of manpower, equipment and safety gears for Pulse Eddy Current technique	General	L/R	Excluding Sabah & Labuan Operations (VDP)	Self-operated	30
		10	Alternating Current Field Measurement (ACFM)	SQ1010210	Provision of manpower, equipment, consumables and safety gears for Alternating Current Field Measurement (ACFM)	General	L/R	Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
		11	Leak Testing	SQ1010211	Provision of manpower, equipment, consumables and safety gears for Leak Testing (e.g. Mass Spectrometer Test Method, Pressure Change Measurement, Halogen Diode Detector Leak Testing, UT & Acoustic Based Leak Detection, etc.)	General	L/R	Excluding Sabah & Labuan Operations (VDP)	Self-operated	51
		03	Specialized NDT							
		01	Phonon Diagnostic Technology	SQ1010301	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Phonon diagnostic	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Agent	51
		02	Acoustic Pulse Reflectometry (APR)	SQ1010302	Provision of manpower, equipment, consumables and safety gears for Acoustic Pulse Reflectometry (APR)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	30
		03	Magnetic Tomography Method and Metal Magnetic Memory	SQ1010303	Provision of manpower, equipment and safety gears for Magnetic Tomography Method & Metal Magnetic Memory	General	L/R		Self-operated Agent	30 51
		04	Laser Beam	SQ1010304	Provision of manpower, equipment and safety gears for laser beam inspection (to check for verticality, roundness and levelness of pressure and non-pressurized vessel, structure and atmospheric tank)	General	L/R		Self-operated	30
		05	Column Scanning	SQ1010305	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Column Scanning (e.g. Neutron Back Scattered scanning, Gamma Scanning)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		06	Caisson Scanning	SQ1010306	Provision of manpower, equipment, consumables, facilities and safety gears to conduct Caisson Scanning	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated Agent	30 51
		07	Tank Scanning	SQ1010307	Provision of manpower, equipment and safety gears for Tank Scanning (e.g. Tank Floor Scanning (Magnetic Flux Leakage(MFL)), Crawler UT and etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
	02	Destructive Testing / Failure Analysis		SQ1020000	Provision of manpower, equipment, consumables and safety gears for Failure Analysis including In-situ Metallography/ Replica, Scoop sampling, lab analysis, mechanical testing and corrosion	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
	03	Inspection Services								
		01	Risk Based Inspection	SQ1030100	Provision of manpower and RBI software for risk based inspection	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	30
		03	Equipment Inspection							
		01	Static Equipments							

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category				SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
			01 Pressure Vessels (Fired) Inspection	SQ1030301	Provision of manpower, equipment, consumables and safety gears for inspection of fired pressure vessel	General	L/R		Self-operated	51
			02 Pressure Vessels (Unfired) Inspection	SQ1030302	Provision of manpower, equipment, consumables and safety gears for inspection of unfired pressure vessel	General	L/R		Self-operated	51
			03 Piping Inspection	SQ1030303	Provision of manpower, equipment, consumables and safety gears for piping inspection	General	L/R		Self-operated	51
			04 Storage Tank Inspection	SQ1030305	Provision of manpower, equipment, consumables and safety gears for storage tank inspection	General	L/R		Self-operated	51
			05 Structure Inspection	SQ1030306	Provision of manpower, equipment, consumables and safety gears for structural (pipe bridge, pipe rack, platform, ladder etc) inspection	General	L/R		Self-operated	51
			06 Cooling Tower Inspection	SQ1030307	Provision of manpower, equipment, consumables and safety gears for Cooling Tower inspection	General	L/R		Self-operated	51
		02	Lifting Equipment							
			01 Offshore Cranes Inspection	SQ1030309	Provision of manpower, equipment and safety gears for offshore crane inspection, load test and certification	Strategic	L	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
			02 Elevator Inspection	SQ1030310	Provision of manpower, equipment and safety gears for elevator inspection	General	L/R		Self-operated	51
			03 Monorail Inspection	SQ1030311	Provision of manpower, equipment and safety gears for monorail inspection and load test	General	L/R		Self-operated	51
		03	Marine							
			01 Vessel (FSO / FPSO) Inspection	SQ1030312	Provision of manpower and safety gears for marine vessel (FSO / FPSO) inspection	General	L/R		Self-operated	51
	04	Corrosion Control & Monitoring								
		01	Corrosion Monitoring Services	SQ1040100	Provision of manpower, equipment, consumables and safety gears for corrosion monitoring services (including corrosion coupon, electrical resistance probe and Linear Polarization Resistance probe (LPR))	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		02	Cathodic Protection (CP)							
		01	Specialized CP Survey	SQ1040201	Provision of manpower, equipment and safety gears for Specialized CP Survey (e.g. Direct Current Voltage Gradient (DCVG), Close Interval Potential Survey (CIPS), etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		02	CP Potential Survey	SQ1040202	Provision of manpower, equipment and safety gears for CP Potential Survey (e.g. Insulating Flanges Testing (IF), Test Point, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		03	CP Design Services	SQ1040203	Provision of design, engineering, consultancy and adequacy review services for CP system	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		04	CP Maintenance Services	SQ1040204	Provision of manpower, equipment and safety gears for CP maintenance services	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
		05	CP Installation Services	SQ1040205	Provision of manpower, material, equipment, services and facilities for CP installation	General	L/R		Self-operated	30
	06	Coating Services								

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	01	Surface Preparation , Painting & Coating	SQ1060100	The provision of manpower, materials, consumables, equipments and facilities necessary for gritblasting surface preparation, painting and coating for piping, structure and plant equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
	02	Hydroblasting	SQ1060200	The provision of manpower, materials, consumables, equipments and facilities necessary for hydroblasting for piping, structure and plant equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
	03	Special Coating / Wrapping	SQ1060300	The provision of manpower, materials, consumables, equipments and facilities necessary for special coating (ceramic, rubber lining, glass flake, fibre glass, chrome coating, fire proofing, etc) for piping, structure and plant equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
	04	Corrosion Prevention of bolt , nut and flanges using composite compound	SQ1060400	The provision of manpower, materials, consumables, equipments and facilities necessary for corrosion prevention of bolts, nuts, flanges and pipe support using composite compound	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	51
07	Welding Isolation Chamber		SQ1070000	The provision of manpower, materials, consumables, equipments and facilities necessary for Welding Isolation Chamber (e.g. Habitat, Hyperbaric, etc.)	General	L/R		Self-operated Agent	30 51
08	Industrial Wrapping Application								
	01	Pressure Containment	SQ1080100	Provision of labour, materials, consumables, equipments and facilities necessary for repair services for pressure containment (e.g. Composite pipe repair, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SQ1	Self-operated	30
	02	Corrosion Protection	SQ1080200	Provision of labour, materials, consumables, equipments and facilities necessary for corrosion protection (e.g. denso tape, etc.)	General	L/R		Self-operated	51
SS1	SPECIAL CATEGORIES MAINTENANCE								
	01	Materials Preservation	SS1010000	Provision of material preservation services	General	L/R		Self-operated	51
	02	Condition Performance Based Monitoring (CBM)							
	01	CPBM Data Collection, Monitoring & Analysis (Mechanical)	SS1020100	Provision of condition monitoring data collection such as vibration/acoustic, lube oil analysis, thermography, process parameter and performance, etc. for rotating equipment	Strategic	L/R	Refer to Min Tech Requirement (MTR) Excluding East Malaysia Operation (VDP)	Self-operated Agent	30 51
	03	CBM Data Collection, Monitoring & Analysis (Electrical)							
	01	Transformer Oil Analysis	SS1020301	Provision of sampling, testing, data collection and analysis of Transformer oil	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	30
	02	TAN Delta Analysis	SS1020302	Provision of performing recording, measurement and analysis of TAN Delta	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	30
	03	Motor Current Signature Analysis (MCSA)	SS1020303	Provision of performing recording, measurement and analysis of MCSA	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	30
	04	Thermography Analysis	SS1020304	Provision of performing recording, measurement and analysis of Thermography	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	30
	05	Partial Discharge Analysis	SS1020305	Provision of performing recording, measurement and analysis of Partial Discharge	Strategic	L/R	Refer to Min Tech Requirement (MTR)	Self-operated	30
03	On-Line Under Pressure Maintenance								

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category			SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
	01	Online Leak Sealing	SS1030100	The provision of manpower, services, equipment, materials, facilities and design engineering for online leak sealing	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	30
	02	Hot Tapping & Line Stopping	SS1030200	The provision of manpower, services, equipment, materials, facilities and design engineering hot tapping & line stopping	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	30
	04	Line Freezing	SS1030400	The provision of manpower, services, equipment, materials, facilities and design engineering for Line Freezing	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	30
04	Metal Spray		SS1040000	The provision of manpower, materials, consumables, equipment and facilities necessary for metal spray services	General	L/R		Self-operated	30
05	Decoking		SS1050000	The provision of manpower, materials, consumables, equipment and facilities necessary for decoking	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	30
08	Equipment Chemical Cleaning		SS1080000	Provision of expert advice, labour, equipment and chemical for equipment chemical cleaning services and post cleaning services (e.g. passivation and handling of waste and etc)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated Agent	30 51
09	Catalyst & Internal Media Changeout								
	01	Internal Media Changeout	SS1090100	Provision of manpower, materials, consumables, equipment and facilities necessary for Unloading, Cleaning, Internal Parts Repair and Loading of internal media (e.g. clay, resin, salt, ACF, etc.) of vessel (e.g. Moisture removal, Chloride removal, Mercury removal, Sulphur removal, Molecular sieve, Propane treater, Butane treater, Feedgas drier, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	51
	02	Single / Fixed Bed	SS1090200	Provision of manpower, materials, consumables, equipment and facilities necessary for Unloading, Cleaning, Internal Parts Repair and Loading of Single Bed Reactor or Single Bed Absorber with single-layer or multi-layer catalyst inclusive of Sock Loading and/or Dense Loading (e.g. Naptha Hydrotreating, Isomerisation, Pressure Swing Absorber, Steam Reformer, Methanol Reactor, Ammonia Primary Reformer, Residue Fluid Catalytic Cracking (RFCC), etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	51
	03	Moving Bed	SS1090300	Provision of manpower, materials, consumables, equipment and facilities necessary for Unloading, Cleaning, Internal Parts Repair and Loading of Moving Bed Reactor or Moving Bed Absorber inclusive of Sock Loading (e.g. Continuous Catalyst Regeneration (CCR), etc)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	51
	04	Multi Bed	SS1090400	Provision of manpower, materials, consumables, equipment and facilities necessary for Unloading, Cleaning, Internal Parts Repair and Loading of Multi Bed Reactor or Multi Bed Absorber with single layer or multi layer catalyst inclusive of Sock Loading and/or Dense Loading (e.g. Adsorbent Chambers, Distillate Hydrotreating, Hydrocracking, etc.)	Strategic	L/R	Refer to Min Tech Requirement (MTR) SS1	Self-operated	30

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
10	Splicing	SS1100000	The provision of labour, materials, consumables and equipments necessary for conveyor belt splicing	General	L/R		Self-operated	51
11	Refractory	SS1110000	The provision of labour, materials, consumables and equipments necessary for refractory repair and maintenance (boiler, furnace, incinerator)	General	L/R		Self-operated	51
12	Post Weld Heat Treatment	SS1120000	The provision of manpower, materials, consumables and equipment necessary for stress relieving for welding joints	General	L/R		Self-operated	51
13	Hydrojetting	SS1130000	The provision of manpower, materials, consumables and equipment necessary for cleaning by hydrojetting	General	L/R		Self-operated	51
SS2 STORAGE HANDLING								
01	General Storage Services							
04	Open Yard	SS2010400	The provision of manpower, facilities and equipment to store, monitor, preserve and loading/unloading of PETRONAS asset	General	L/R		Self-operated	51
ST1 TANKS/TANK FARMS								
01	Design, Supply, Erection & Commissioning							
01	Small Tank (< 100 KBBL)	ST1010100	To design, supply, deliver, install and test of small tank (<100KBBL)	Strategic	L/R	CIDB – related M category DOSH - JKJ 112	Self-operated	51
02	Large Tanks (≥100KBBL)	ST1010200	To design, supply, deliver, install and test of large tank (≥100KBBL)	Strategic	L/R	CIDB – related M category DOSH - JKJ 112	Self-operated	51
SU1 UNDERWATER SERVICES								
01	Underwater Engineering, Construction & Maintenance Services	SU1010000		Strategic	L	CIDB - category CE	Self-operated Agent	30 51

STANDARDISED WORK AND EQUIPMENT CATEGORIES (SWECs) FOR SERVICES



Work Category		SWECs Code (9 Digits)	DESCRIPTION	Strategic/General	L/R	OTHER REGISTRATION REQUIREMENTS / REMARKS	MINIMUM MODE OF OPERATION	Minimum BM% Required (Note)
02	Surface Diving Services	SU1020000		Strategic	L		Self-operated Agent	30 51
03	Saturation Diving Services	SU1030000		Strategic	L		Self-operated Agent	30 51
04	Remotely Operated Vehicles (R.O.V) Services	SU1040000		Strategic	L	Excluding area of shallow waters in Peninsular Malaysia for pipelines replacement services only - Upstream Sector (VDP)	Self-operated Agent	30 51
05	Underwater Inspection/Diving Services	SU1050000		Strategic	L/R	Excluding area of shallow waters in Peninsular Malaysia for pipelines replacement services only - Upstream Sector (VDP)	Self-operated	51
SV1	SUBSEA							
01	Subsea Production System Maintenance and Repair Services	SV1010000	Provision of manpower, tooling, spares, refurbishment, equipment, project management and engineering in Subsea Equipment Maintenance and Repair Services (e.g Subsea Christmas tree, control system, distribution system, hardware, structure, tooling, etc)	Strategic	L	Refer to Min Tech Requirement (MTR) SV1	Self-operated	30
SW1	WAREHOUSING & STORAGE SERVICES							
01	Warehouse							
02	Non-bonded Warehouse	SW1010200	The provision of non-bonded warehouse facilities and services	General	L/R		Self-operated	51
02	Material Handling							
01	Forklift							
01	Forklift – below 5MT	SW1020101	The provision for rental and services of forklift below 5MT lifting capacity	General	L/R		Self-operated	0
02	Forklift – 5MT & above	SW1020102	The provision for rental and services of forklift 5MT & above lifting capacity	General	L/R		Self-operated	0
02	Packing & Bagging	SW1020200	The provision of packing & bagging services	General	L/R		Self-operated	51
03	Warehouse Management Services	SW1030000	The provision of manpower, equipment and system to manage inventory of goods and materials in a warehouse	General	L/R		Self-operated	51
04	Container Handling	SW1040000	The provision of container handling leasing and services	General	L/R		Self-operated	0

NOTE :

- For BM percentage of 100%, it is only required at equity level. At Board of Directors level and management level, only 75% of BM participation is required and for employment level, only 51% of BM participation is required.