

Common Understandings on Procurement Allocation

1. The Procurement Allocation amongst the seven Parties has been developed to enable the successful realization of ITER construction, according to the available resources and Overall Project Schedules. The allocation has been made aiming at:
 - a. Technically feasible and managerially rational sharing;
 - b. Reduction of project risks; and
 - c. Definition of clear responsibilities.
2. The Procurement Allocation (shown in Table attached) provides a comprehensive and technically satisfactory basis for assignment of fabrication responsibilities during the ITER construction by taking into account each Party's capabilities and priorities.
3. The sharing ratio of in-kind procurements by the seven Parties, EU, JA, CN, IN, KO, RF and US is about 4:2:1:1:1:1:1 respectively¹.
4. Procurement packages that require strong design integration and/or on-site installation should be procured by the ITER Organization. Corresponding resources are assigned to Fund.
5. Detailed adjustments on Procurement Allocation and on costs of specific items may arise, while preserving the overall cost sharing by the Parties. In particular, detailed adjustments might take place as a result of the design review conducted by the ITER Organization and of the prequalification which will be needed for the critical procurement packages shared by multi-Parties.

Attachment : Summary Table of Procurement Allocation

¹ The procurement allocation to JA includes procurements transferred from EU to JA under terms and conditions in the Joint Paper attached to Joint Declaration of the Ministerial Meeting for ITER, Moscow, 28th June 2005.

Summary Table of Procurement Allocation

PACKAGE			ALLOCATION	REMARKS
1.1 Magnet	Toroidal Field Magnet Windings	1A	EU=100%	1A for 10 TF (including 1 prototype) and 1B for 9 TF (including fabrication verification)
		1B	JA=100%	
	Toroidal Field Magnet Structures	2A	EU=10%, JA=90%	Fabrication of whole structures by JA and Pre-compression ring by EU. Final assembly of 10 TF coil cases by EU (10%)
		2B	JA=100%	
	Magnet Supports	2C	CN=100%	
	Poloidal Field Magnet 1 & 6	3A	EU=50%, RF=50%	PF1 by RF and PF6 by EU
	Poloidal Field Magnet 2 to 5	3B	EU=100%	
	Correction Coils	3C	CN=100%	
	Central Solenoid Magnet	4A+4B	US=100%	
	Feeders	5A	CN=100%	
	Feeders Sensors	5B	FUND=100%	
Toroidal Field Magnet Conductors	6A	EU=20%, JA=25%, RF=20%, CN=7%, KO=20%, US=8%	See Note-1	

	Central Solenoid Magnet Conductors	6B		JA=100%	
	Poloidal Field Magnet Conductors	6C		EU=13%, RF=18%, CN=69%	
1.5 Vacuum Vessel	Main Vessel, including Blanket Manifolds and Hydraulic Connectors	1A		EU=80%, KO=20%	See Note-2
	Shielding	1B		IN=100%	
	Equatorial Ports	2A		RF=24%, KO=76%	See Note-2
	Upper Ports	2B			
	Lower Ports	2C			
1.6 Blanket System	Blanket First Wall	1A		EU=30%, JA=10%, RF=20%, CN=10%, KO=10%. US=20%	See Note-1
	Blanket Shield	1B		EU=10%, RF=20%, CN=40%, KO=10%, US=20%	
	Diagnostic First Wall			FUND=100%	
	Port Limiters	2		US=100%	,
	Blanket Module Connections	3		RF=100%	

28.7 Divertor	Cassette Integration	1		EU=100%	
	Outer Target	2A		JA=100%	See Note-1
	Inner Target	2B		EU=100%	
	Dome	2C		RF=100%	
	Plasma-Facing Component Tests	2D		RF=100%	
2.2 Machine Assembly	Assembly Operations	1		FUND=100%	See Note-3
	Assembly Tooling 3-11	2A		KO=100%	
	Assembly Tooling 1-2,12-13	2B		FUND=100%	See Note-3
2.4 Cryostat	Cryostat Factory	1A		IN=100%	
	Cryostat Assembly	1B			
2.7 Thermal Shield	Thermal Shield			KO=100%	

3.1 Vacuum Pumping & Fuelling	Cryopumps	1		EU=88%, FUND=12%	
	Roughing Pumps	2		US=88%, FUND=12%	
	Leak Detection	3		EU=88%, FUND=12%	
	Standard Comp.	4		US=88%, FUND=12%	
	Pellet Injector	5		US=88%, FUND=12%	
	Gas Injector Valve Boxes + Glow Discharge Cleaning Conditioning System	6		CN=88%, FUND=12%	
2.3 Remote Handling Equipment	Blanket Remote Handling Equipment	1		JA=100%	
	Divertor Remote Handling Equipment	2		EU=100%	
	Transfer Cask System	3		EU=50% CN=50%	
	Viewing/Metrology Systems	4		EU=100%	
	Neutral Beam Remote Handling Equipment	5		EU=100%	

	Hot Cell Maintenance Equipment	6		FUND=100%	
2.6 Cooling Water System	Blanket +Divertor	1A		US=100%	
	Vacuum Vessel and Neutral Beam	1B			
	Piping Outside Vault	1C		FUND=100%	See Note-3
	Heat Rejection and Component Cooling Water: Material and Transportation	2A'		IN=100%	
	Heat Rejection and Component Cooling Water: Engineering and On-site Assembly	2B'		FUND=100%	
3.2 Tritium Plant	Tokamak Exhaust Processing System	1		US=88%, FUND=12%	
	Storage & Delivery	2		KO=88%, FUND=12%	
	Hydrogen Isotopes Separation	3		EU=88%, FUND=12%	
	Atmosphere Detritiation	4		JA=50%, FUND=50%	
	Water Detritiation	5		EU=88%, FUND=12%	
	Tritium Analysis & Control	6		FUND=100%	

3.4 Cryoplant Cryo- distribution	Cryoplant	1		EU=50%, FUND=50%	
	Cryolines	2		IN=100%	
	Cryodistribution Components	3		IN=100%	
4.1 Pulsed Power Supply	High Voltage Substation Assembly	1A		EU=100%	
	High Voltage Substation Materials	1B		CN=100%	
	AC/DC Converters	2		CN=62%, KO=38%	
	Switch, Discharge Circuits	3		RF=100%	
4.1 Steady State Power Supply	Emergency	8A		EU=100%	
	Assembly	8B		EU=100%	
	Materials + Transportation	8C		EU=25%, US=75%	
6.2 Building	Concrete Buildings	1		EU=100%	
	Steel Frame Buildings	2		EU=100%	
6.3 Waste	Waste Treatment Storage	1		EU=100%	
6.4 Radiological Protection	Radiological Protection	1		EU=100%	

5.1 Ion Cyclotron Heating & Current Drive	Ion Cyclotron Antenna	1		EU=88%, FUND=12%	
	Main Transmission Line	2		US=88%, FUND=12%	
	Radio Frequency Power Sources	3		IN=100%	
	Power Supply	4		IN=100%	
5.2 Electron Cyclotron Heating & Current Drive	Equatorial Launcher	1A		JA=88%, FUND=12%	
	Upper Launcher	1B		EU=88%, FUND=12%	
	Transmission Line	2		US=88%, FUND=12%	
	Radio Frequency Power Sources	3		EU=31%, JA=31%, RF=31%, IN=8%	Startup system by IN
	Power Supply	4		EU=92%, IN=8%	Startup system by IN
5.3 Neutral Beam Heating & Current Drive	Assembly and Testing	1		EU=100%	
	Beam Source and High Voltage Bushing	2		EU=50%, JA=50%	
	Beamline Components	3		EU=50%, JA=50%	
	Pressure Vessel, Magnetic Shielding	4		EU=50%, JA=50%	
	Active Correction and Compensation Coils	5		EU=100%	

	Power Supply for Heating Neutral Beam	6		EU=38%, JA=62%	
	Diagnostic Neutral Beam	7		IN=100%	
5.5 Diagnostics	Magnetics	A		EU=25.0%, JA=14.2%, RF=13.5%, CN=3.3%, KO=3.3%, US=16%, IN=3.2%, FUND=21.5%	See Note-4
	Neutron Systems	B			
	Optical Systems	C			
	Bolometry	D			
	Spectroscopic	E			
	Microwave	F			
	Operational Systems	G			
	Standard Diagn.	N			
4.5 Command Control and Data Acquisition and Communica tion	Control and Data Acquisition			FUND=100%	
Total				EU ~ 33%, JA ~ 16% , RF ~ 8%, CN ~8%, KO ~ 8%, US ~ 8%, IN ~ 8%, FUND ~ 11%	

Note-1: The paragraph 5 of Common Understandings on Procurement Allocation should be applied.

Note-2: Proper integration should be obtained through a Prime/Sub Contractor or Consortium arrangement due to the importance of the safety classification of the components.

Note-3: These packages were originally allocated to Non-common. Due to the increase of the number of Parties, it is allocated to Fund.

Note-4: Details of sharing will have to be defined by the ITER Organization.