

ANNEX

LIST

of

PROCUREMENT PROPOSALS

**EUROPEAN SPACE AGENCY**

**Procurement Proposals: Scenario for the robotic and Human Exploration**

**Budgetary output:** OUTPUT: 100580 Aurora  
 SUB-HEADING: 6005100 Studies and Technology Development  
**Price type:** Firm fixed price  
**Weighting factor:** 1

Com. Appr.	Procurement Proposal	Item Ref. in Aurora	Subject of Procurement	Proc. Policy	Estimated Price Range kEuro	Tender Issue Quarter	Company	Contract Duration (months)	Initiating Service
<b>1. SCENARIO FOR THE ROBOTIC AND HUMAN EXPLORATION</b>									
	P1)	05/M13	European Space Exploration Approach	C/DN	350	1:2005		6	D/HME
IPC	P2)	05/M16	Space Exploration Architecture	DN/C	850	1:2005	Alenia(I)	12	D/HME

**EUROPEAN SPACE AGENCY  
Procurement Proposals: Mission Studies**

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**Weighting factor:** 1

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<b>2. Early robotic missions</b>									
IPC	P3) <b>04.197.19</b> DHME	05/M20	ExoMars Phase B1 Mission Study	DN/C	9500	1:2005	Alenia(I)	15	
IPC	P4) <b>04.197.20</b>	05/M30	Mars Sample Return (MSR) Phase A2 Study	C	1600	2:2005		12	DHME
(*)	P5) <b>04.197.21</b>	05/M40	EVD Phase A	C, C1	2 X 600	1:2005		5	DG-X

(\*) For Info only: Studies funded under GSP ref. ESA/IPC(2003)14 add; 20 October 2003

## EUROPEAN SPACE AGENCY

## Procurement Proposals: Improvement of Human Spaceflight Capabilities

**Budgetary output:** OUTPUT: 100580 Aurora  
SUB-HEADING: 6005100 Studies and Technology Development

**Price type:** Firm fixed price

**Weighting factor:** 1

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<b>3. IN-ORBIT ASSEMBLY / RENDEZ VOUS AND DOCKING</b>									
IPC	P6)	05/R35	System and Avionics Development Activities for the IBDM	DN	1600	1:2005	SENER(E)	12	D/HME
AC	P7)	05/R36	Rendezvous and Docking Demonstration Mission Definition	DN	350	1:2005	Verhaert(B)/SENER(E)/SSC(S)	6	D/HME
<b>4. HABITATION, LIFE SUPPORT AND MEDICINE</b>									
AC	P8)	05/C02	Habitation System Studies	DN	400	2:2005	Alenia(I)	18	D/HME
	P9)	05/C07	Grey water Recycling Unit: critical items development, phase 1	C1	150	2:2005		12	D/HME

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	P10)	05/C22	Black Water treatment unit for Concordia	DN	50	2:2005	EPAS (B)	9	D/HME
IPC	P11)	05/C27	Long Term Medical Survey (LTMS) Phase B	C4	500	2:2005		15	D/HME
AC	P12)	05/C37	Preparation for Centrifuge validation	DN	300	3:2005	MEDES (F)	12	D/HME
	P13)	05/C42	Psychological selection and training support for Concordia	DN	100	2:2005	Consultancies	12	D/HME
	P14)	05/C52	Techniques of psychological support	C3	100	2:2005		9	D/HME
	P15)	05/C57	Investigations into biological effects of Radiation	C3	100	2:2005		9	D/HME

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	P16)	05/C67	LSS for developing countries	C3	150	2:2005		12	D/HME
	P17)	05/C72	Chemical and biological substances decontamination study for Mars missions and terrestrial applications	C2	100	2:2005		8	D/HME
	P18)	05/C77	Tele-echography	DN	150	2:2005	Sinters (F),	12	D/HME
AC	P19)	05/C82	MELISSA – External Laboratory	DN	300	2:2005	UAB(E)	18	D/HME
IPC	P20)	05/C83	MELISSA – External Laboratori(*)	DN/C	600	2:2005	UOG(Canada)	24	D/HME

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**EUROPEAN SPACE AGENCY**  
**Procurement Proposals: Technology Development**

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SUB-HEADING: 6005100 Studies and Technology Development  
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**Weighting factor:** 1

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<b>5. MISSION SPECIFIC TECHNOLOGY STUDIES</b>									
	P21) <b>04.197.07</b>	05/A15	Aurora Avionics Data System Standard Services Architecture Definition	DN	150	2:2005	Spacebel(B)	8	D/HME
<b>6. DATA PROCESSING &amp; COMMUNICATION</b>									
AC	P22) <b>04.397.02</b>	05/D15	Simulation of knowledge enabled monitoring and diagnosis tool for Mars lander payloads	DN	250	2:2005	<u>Uninova(P)</u>	18	D/HME
	P23)	05/D35	RF / Optical Link Systems Trade-off Study for Interplanetary Telecomms	C2	250	2:2005		10	D/HME

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<b>7. ENTRY, DESCENT AND LANDING</b>									
AC	P24) <b>04.197.09</b>	05/E15	Plasma testing of heat shield concepts for high speed Earth entry	DN	450	2:2005	CIRA (I)	18	D/HME
AC	P25) <b>04.197.19</b>	05/E20	Moon and Mars Human Mission Re-entry Technologies	DN	250	2:2005	Alenia(I)	8	D/HME
<b>8. ROBOTICS &amp; MECHANICS</b>									
AC	P26) <b>04.197.11</b>	05/R15	Drilling and Sampling Technologies	C1	300	2:2005		18	D/HME
AC	P27) <b>04.197.12</b>	05/R25	Capture/docking mechanism testing	C	400	2:2005		18	D/HME

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<b>9. STRUCTURE &amp; THERMAL CONTROL</b>									
AC	P28) <b>04.397.04</b>	05/T15	Lightweight landing legs for MSR lander	DN	300	2:2005	SENER(E) INASMET(E)	18	D/HME
AC	P29) <b>04.197.14</b>	05/T35	Sample container for MSR	C1	400	2:2005		18	D/HME
AC	P30) <b>04.197.15</b>	05/T45	Bio-sealing and monitoring technology for sample containers	C1	400	2:2005		12	D/HME

#### 10. INSTRUMENT TECHNOLOGIES

	P31)	05/I15	Infrared Fourier-Transform Spectrometer	DN	200	2:2005	IFSI-CNR(I)	12	D/HME
AC	P32)	05/I25	Gas-Chromatographer/Mass Spectrometer (*)	DN	300	2:2005	Max Planck Institute (D)	12	D/HME

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AC	P33) 05/I35		Ultraviolet Spectrometer	DN	250	2:2005	The Open University (UK)	12	D/HME
	P34) 05/I45		Dust and Water Vapour Instrument suite	DN	200	2:2005	INAF(I)	12	D/HME
AC	P35) 05/I55		X-Ray Diffractometer (XRD)	DN	300	2:2005	International Research School Of Planetary Science(I)	12	D/HME
IPC	P36) 05/I65		Combined Raman Spectrometer / Laser Induced Breakdown Spectrometer	C1	1,100	2:2005		18	D/HME
IPC	P37) 05/I75		Life Marker Chip	C1	650	2:2005		18	D/HME

