



COOMET Document

**COOMET
RM/01:2009**

Program of Joint CRM development within COOMET

**PROGRAMME
OF JOINT CRM DEVELOPMENT
WITHIN COOMET**

(Project № 186/Ru/99)

As of 1 January 2009

Ind . Nos .	Country, organization, CRM producer, contact person	Name and number of the project	Certified characteristics	Planned values (range) of certified characteristics	Period of CRM Development	Notes
1	2	3	4	5	6	7

Part 1 - projects for which the forms of Proposed (P) or Agreed (A) Projects are prepared

1.	Russia	Development of CRM for composition of dry residue of Baikal water SOVB-1; birch leaf LB-1; mixture of meadow herbs Tr-1; Canadian pond weed EK-1 and perch tissue BOk-2 293/RU/03 (A)	CRM for composition of perch tissue BOk-2		2003–2009	Participants of work: 1. Belarus - BelGYM 2. Kazakhstan -UKF RGP “KazInMetr”; - Cash Payment and Custody Centre of the National Bank of the Rep. of Kazakhstan 3. TC 1.8 - FGUP “VNIIM”
	A.P. Vinogradov Geochemistry Institute, Sib. Branch of RAN (IGCH SB RAN) 1a, Favorsky Str. Irkutsk, 664033 I.E. Vasilyeva Contact Person: Head of Analytical Department Тел.: (3952) 42 58 37 Fax: (3952) 42 70 50 E-mail: vasira@igc.irk.ru		As, ppm	0,05-0,5		
	Ba, %		0,1-10			
	Br, ppm		10-100			
	Ca, %		0,05–0,5			
	Cd, ppm		0, 01 - 1			
	Cl, %		0,05-0,5			
	Co, ppm		0,01-0,5			
	Cu, ppm		0,5-50			
	Fe, %		1-500			
	Hg, ppm		0,1- 1			
	K, %		1-5			
	Mg, %		0,05-0,5			
	Mn, %		0,5-50			
	Na, %		0,1-1			
	Ni, ppm		0,1-10			
	P, %		0,5 -5			
	Pb, ppm		0,1-5			
	S, %		0,5-5			
	Sb, ppm		0,05-0,5			
Se, ppm	0,5-5					
Si, %	0,05- 10					
Sr, ppm	1-50					
Ti, %	1-100					
V, ppm	0,01-1					
Zn, ppm	1-100					

1	2	3	4	5			6	7
2.	<p>Russia</p> <p>All-Russian Research Institute for Petroleum Refining (OAO "VNII NP") Moscow Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolvniinp@inetm.ru</p> <p>Scientific and Production Association "INTEGRSO" Ufa A.H. Muhamedzhanov General Director Tel. (347) 3071-152 (347) 3071-153 (347) 3071-154 E-mail: integrso@ufanet.ru</p> <p>FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	<p>Development of CRMs for fractional composition of petroleum products (petroleum fuel) (3 types): petrol CRM FS-1; jet fuel CRM FS-2; diesel fuel CRM FS-3 <u>352/RU/06 (A)</u></p>	<p>Distillation temperature, °C</p>	<p>FS-1 (petroleum CRM)</p>	<p>FS-2 (jet fuel CRM)</p>	<p>FS-3 (diesel fuel CRM)</p>	2006-2009	<p>Participants of work:</p> <p>1. Belarus -Research Institute of Nuclear Problems of the Belarussian State University; -202 chemmotological fuel centre at the RB Ministry of Defense; -OJSC "Mozyr Petroleum Refining Works"</p> <p>2. Bulgaria -DAMTH (State Agency for Metrology and Technical Supervision)-accredited testing laboratory for petroleum products</p> <p>3. Kazakhstan -Scientific –and-production centre for certification tests of motor fuels and oils "SATandM" RGKP "Eastern-Kazakhstan State Technical University" (RGKP VKGTU),</p> <p>4. Moldova - Standardization and Metrology Service of Republic of Moldova</p>
3.	<p>Development of CRM of petrol antiknock value (octane number) by motor method OCH-1 (M) <u>353/RU/06 (A)</u></p>	<p>Development of CRM of petrol antiknock value (octane number) by motor method OCH-1 (M) <u>353/RU/06 (A)</u></p>	<p>Octane number</p>	74 - 78			2006-2009	<p>Participants of work:</p> <p>1. Belarus -Research Institute of Nuclear Problems of the Belarussian State University; -202 chemmotological fuel centre at the RB Ministry of Defense; -PO "NAPHTAN"; -OJSC "Mozyr Petroleum Refining Works";</p> <p>2. Kazakhstan -Scientific –and-production centre for certification tests of motor fuels and oils "SATandM" RGKP "Eastern-Kazakhstan State Technical University" (RGKP VKGTU),</p> <p>3. Moldova - Standardization and Metrology Service of Republic of Moldova</p>

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4.	<p>Russia</p> <p>All-Russian Research Institute for Petroleum Refining (OAO "VNII NP") Moscow Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolvniinp@inetm.ru Scientific and Production Association "INTEGRSO" Ufa A.H. Muhamedzyanov General Director Tel. (347) 3071-152 (347) 3071-153 (347) 3071-154 E-mail: integrso@ufanet.ru</p>	<p>Development of CRMs of petrol antiknock value (octane number) by research method (2 types) OCH-2 (I); OCH-3 (I); <u>354/RU/06 (A)</u></p>	<p>Octane number</p> <p>Octane number</p>	<p>91 - 93</p> <p>94 - 96</p>	2006-2009	<p>Participants of work:</p> <p>1. Belarus -Research Institute of Nuclear Problems of the Belarussian State University; -202 chemmotological fuel centre at the RB Ministry of Defense; -PO "NAPHTAN"</p> <p>2. Bulgaria -DAMTH (State Agency for Metrology and Technical Supervision)-accredited testing laboratory for petroleum products</p> <p>3. Kazakhstan -Scientific –and-production centre for certification tests of motor fuels and oils "SATandM" RGKP "Eastern-Kazakhstan State Technical University" (RGKP VKGTU),</p> <p>4. Moldova - Standardization and Metrology Service of Republic of Moldova</p>
5.	<p>FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	<p>Development of CRMs of sulphur mass fraction in petroleum and petroleum products (9 types) CRM SRFB-1 ÷ CRM SRFB-9 <u>355/RU/06 (A)</u></p>	<p>Sulphur mass fraction,%</p> <p>CRM SRFB-1; CRM SRFB-2; CRM SRFB-3; CRM SRFB-4; CRM SRFB-5; CRM SRFB-6; CRM SRFB-7; CRM SRFB-8; CRM SRFB-9</p>	<p>0,015 - 0,030 0,040 - 0,060 0,080 - 0,120 0,400 - 0,500 0,800 - 1,200 1,800 - 2,200 2,800 - 3,200 3,800 - 4,200 4,800 - 5,200</p>	2006-2009	<p>Participants of work:</p> <p>1. Belarus -Research Institute of Nuclear Problems of the Belarussian State University; -202 chemmotological fuel centre at the RB Ministry of Defense; -PO "NAPHTAN"</p> <p>2. Bulgaria -DAMTH (State Agency for Metrology and Technical Supervision)-accredited testing laboratory for petroleum products</p> <p>3. Germany -BAM (Federal Institute for Material Research and Testing)</p> <p>4. Kazakhstan -Scientific –and-production centre for certification tests of motor fuels and oils "SATandM" RGKP "Eastern-Kazakhstan State Technical University" (RGKP VKGTU),</p> <p>5. Moldova - Standardization and Metrology Service of Republic of Moldova</p>

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6.	<p style="text-align: center;">Russia</p> <p>All-Russian Research Institute for Petroleum Refining (OAO "VNII NP") Moscow</p> <p>Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolniinp@inetm.ru</p>	<p>Development of CRMs of saturated vapour pressure in petroleum and petroleum products (5 types) CRM DNP-2; CRM DNP-3; CRM DNP-4; CRM DNP-5; CRM DNP-6;</p> <p><u>356/RU/06 (A)</u></p>	<p>Saturated vapour pressure at 37,8° C, kPa</p> <p>CRM DNP-2; CRM DNP-3; CRM DNP-4; CRM DNP-5; CRM DNP-6</p>	<p>10 – 12 30 – 38 105 – 115 15 - 30 60 – 80</p>	2006-2009	<p>Participation of all COOMET member- countries is desirable Participants of work: 1. Belarus -202 chemmotological fuel centre at the RB Ministry of Defense) -PO "NAPHTAN" 2. Kazakhstan -Scientific –and-production centre for certification tests of motor fuels and oils "SATandM" RGKP "Eastern- Kazakhstan State Technical University" (RGKP VKGTU), 3. Moldova - Standardization and Metrology Service of Republic of Moldova</p>
7.	<p>Scientific and Production Association "INTERGRSO" Ufa</p> <p>A.H. Muhamedzyanov General Director Tel. (347) 3071-152 (347) 3071-153 (347) 3071-154 E-mail: integrso@ufanet.ru FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	<p>Development of CRMs for benzene content in petrol (4 types) CRM MOB-1; CRM MOB-2; CRM MOB-3; CRM MOB-4</p> <p><u>357/RU/06 (A)</u></p>	<p>Mass volume fraction of benzene, % vol.</p> <p>CRM MOB-1 CRM MOB-2 CRM MOB-3 CRM MOB-4</p>	<p>0,0 – 1,0 1,1 – 2,0 2,1 – 3,0 3,1 – 6,0</p>	2006-2009	<p>Participants of work: 1. Belarus -202 chemmotological fuel centre at the RB Ministry of Defense; -PO "NAPHTAN" -OJSC "Mozyr Petroleum Refining Works" 2. Bulgaria -DAMTH (State Agency for Metrology and Technical Supervision) -accredited testing laboratory for petroleum products 3. Kazakhstan -UKF RGP "KazInMetr" 4. Moldova - Standardization and Metrology Service of Republic of Moldova</p>

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8.	<p>Russia All-Russian Research Institute for Petroleum Refining (OAO "VNII NP") Moscow</p> <p>Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolvniinp@inetm.ru</p> <p>Scientific and Production Association "INTEGRSO" Ufa A.H. Muhamedzyanov General Director Tel. (347) 3071-152 (347) 3071-153 (347) 3071-154 E-mail: integrso@ufanet.ru</p> <p>FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	<p>Development of CRMs of oxygenate content in petrol: (4 types) CRM MTBE -1; CRM MTBE -2; CRM MTBE -3; MTBE + IPA</p> <p><u>358/RU/06 (A)</u></p>	<p>Mass fraction of MBTE (methyltretbutyl ether) ,%</p> <p>CRM MTBE -1 CRM MTBE -2 CRM MTBE -3</p> <p>Mass fraction MTBE + IPA (isopropyl alcohol), %</p> <p>CRM MTBE + IPA</p>	<p>4,5 – 5,5 7,5 – 8,5 11,5 – 12,5</p> <p>4,5 – 5,5 (MTBE) 4,5 – 5,5 (IPA)</p>	2006 – 2010	<p>Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus -PO "NAPHTAN" 2. Moldova - Standardization and Metrology Service of Republic of Moldova</p>

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9.	<p align="center">Russia</p> <p align="center">D.I. Pryanishnikov All-Russian Research Institute for Agrochemistry (GNU VNIIA) 31A, Pryanishnikov Str., Moscow, 127550</p> <p align="center">Contact Person: G.A. Stupakova Head of Laboratory Tel.: (495) 976-05-52 Fax: (495) 976-37-39 E-mail: CINAO.OIT@23.relcom.ru</p>	<p>Development of CRMs for composition of soil agrochemical parameters (2 types)</p> <p align="center"><u>415/RU/08 (A)</u></p>	<p>CRMs for composition of soil agrochemical parameters (chestnut clayey loamy soil)</p> <table border="0"> <tr> <td>Movable phosphor</td> <td>6,0-15,0 mln⁻¹</td> </tr> <tr> <td>Movable potassium</td> <td>200-350 mln⁻¹</td> </tr> <tr> <td>Organic substance</td> <td>1,0-2,05 %</td> </tr> <tr> <td>Nitrate nitrogen</td> <td>5,0-8,0 mln⁻¹</td> </tr> <tr> <td>Exchangeable ammonium nitrogen</td> <td>2,0-5,5 mln⁻¹</td> </tr> <tr> <td>Movable sulphur</td> <td>25,0-40,0 mln⁻¹</td> </tr> <tr> <td>Base exchange capacity</td> <td>20-40 mmol/100g</td> </tr> <tr> <td>Movable microelements:</td> <td></td> </tr> <tr> <td> Boron</td> <td>3,0-6,0 mln⁻¹</td> </tr> <tr> <td> Zinc</td> <td>0,2-0,7 mln⁻¹</td> </tr> <tr> <td> Manganese</td> <td>6,0-12,0 mln⁻¹</td> </tr> <tr> <td> Cobalt</td> <td>0,04-0,15 mln⁻¹</td> </tr> <tr> <td> Copper</td> <td>0,06-0,18 mln⁻¹</td> </tr> <tr> <td> Molybdenum</td> <td>0,06-0,14 mln⁻¹</td> </tr> </table>	Movable phosphor	6,0-15,0 mln ⁻¹	Movable potassium	200-350 mln ⁻¹	Organic substance	1,0-2,05 %	Nitrate nitrogen	5,0-8,0 mln ⁻¹	Exchangeable ammonium nitrogen	2,0-5,5 mln ⁻¹	Movable sulphur	25,0-40,0 mln ⁻¹	Base exchange capacity	20-40 mmol/100g	Movable microelements:		Boron	3,0-6,0 mln ⁻¹	Zinc	0,2-0,7 mln ⁻¹	Manganese	6,0-12,0 mln ⁻¹	Cobalt	0,04-0,15 mln ⁻¹	Copper	0,06-0,18 mln ⁻¹	Molybdenum	0,06-0,14 mln ⁻¹	2008-2010	<p>Participants of work:</p> <p>1. Bulgaria -The Institute of Soil Science</p> <p>2. Kazakhstan - Republican Centre for Agrochemical Service</p> <p>3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p> <p>4. Ukraine -National Scientific Centre “A.N. Sokolovsky Institute of Soil Science and Agrochemistry”</p>								
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11.	<p>Russia West-Siberian Testing Centre (WSTCentre), 9, Ordzhonikidze Str., Novokuznetsk Kemerovo Province 654027 T.N. Voropaeva Deputy Director Tel.: (8-3843) 74-57-22 Fax: (8-3843) 74-39-76 E-mail: zsic@mail.ru</p> <p>Contact Person: E.Y. Tsukanova Leading Specialist Tel.: (8-3843)-74 56-34 E-mail: mineralog.mail.ru</p>	<p>Development of CRMs for composition of ilmenite concentrate (SO-35)</p> <p><u>418 /RU/08 (P)</u></p>	<p>Mass fraction of components, % Silicon oxide Titanium oxide Aluminium oxide Total iron oxide Iron oxide Manganese oxide Calcium oxide Magnesium oxide Phosphor oxide Chromium oxide Zirconium oxide Vanadium oxide Scandium Lead Zinc Copper Barium</p>	<p>1,00-5,00 50,00-70,00 0,50-2,00 20,00-30,00 20,00-30,00 0,50-2,00 0,50-2,00 0,10-1,00 0,50-2,00 0,5-2,50 1,00-5,00 0,036-0,18 0,001-0,005 0,01-0,15 0,01-0,05 0,001-0,005 0,01-0,05</p>	2008-2010	<p>Participants of work:</p> <p>1. Belarus - Central laboratory "BelGeology"</p> <p>2. Kazakhstan - Aksusk Ferroalloy Works JSC «Kazchrom», Central Laboratory</p> <p>3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p>
12	<p>Russia D.I. Pryanishnikov All-Russian Research Institute for Agrochemistry (GNU VNIIA) 31A, Pryanishnikov Str., Moscow, 127550</p> <p>Contact Person: G.A. Stupakova Head of Laboratory Tel.: (495) 976-05-52 Fax: (495) 976-37-39 E-mail: CINAO.OIT@g23.relcom.ru</p>	<p>Development of CRMs for composition of soil agrochemical parameters (turf-podzol heavy-loamy soil SADPP -07)</p>	<p>Movable phosphor Movable potassium pH value Hydrolytic acidity Exchangeable calcium Exchangeable magnesium Organic substance Exchangeable ammonium nitrogen Movable sulphur Movable microelements : Boron Zinc Manganese Cobalt Copper Molybdenum</p>	<p>400-600 mln⁻¹ 100-160 mln⁻¹ 5,4-5,8 pH units 1,4-2,15 mmol/100g 4,7-7,1 mmol/100g</p> <p>1,50-2,60 mmol/100g 1,1-2,0 %</p> <p>5,10-12,0 mln⁻¹ 4,40-8,30 mln⁻¹</p> <p>0,40-0,80 mln⁻¹ 2,15-4,0 mln⁻¹ 44-66 mln⁻¹ 0,75-1,4 mln⁻¹ 2,6-4,0 mln⁻¹ 0,10-0,20 mln⁻¹</p>	2008-2010	<p>Participation of COOMET member-countries is desirable.</p> <p>Participants of work:</p> <p>1. Belarus - BelGIM; - The Institute of Soil Science and Agrochemistry</p> <p>2. Bulgaria - The Institute of Soil Science</p> <p>3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p>

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13.	<p>Russia A.P. Vinogradov Geochemistry Institute Siberian Branch of the Academy of Sciences of Russia (IGC CO RAN) 1a, Favorsky Str., Irkutsk, 664033</p> <p>Contact Person: I.E. Vasilyeva Head of Analytical Department Tel.: (3952) 42-58-37 E-mail: vasira@igc.irk.ru</p>	<p>Development of CRM for composition of KATEK coal fly ash (ZUK- 2)</p> <p><u>/RU/08 (P)</u></p>	<p>SiO₂, % TiO₂, % Al₂O₃, % FeO, % Fe₂O₃ tot, % MnO, % MgO, % CaO, % Na₂O, % K₂O, % P₂O₅, % CO₂, % ΠΠΠΠ, % As, % Ba, % Be, g/t Cr, g/t Cs, g/t Cu, g/t Hg, g/t Ni, g/t Pb, g/t S tot, % Sr, g/t Tl, g/t Th, g/t U, g/t V, g/t Zn, g/t Zr, g/t</p>	<p>12-19 0,3-1,0 7-12 0,1-0,7 3-9 0,1-0,6 3-7 40-45 0,4-1,0 0,2-0,6 0,01-0,07 21,0-30,0 5-10 0,001-0,01 0,7-2,0 1-4 4,0-7,0 0,7-1,0 15-50 0,01-0,050 30-70 10-40 0,1-0,5 700-1200 0,1-1,0 0,01-0,5 0,1-1,0 10-60 10-100 100-300</p>	2008- 2010	<p>Participation of all COOMET member-countries is desirable</p> <p>Participants of work:</p> <p>1. Belarus - Central laboratory “BelGeology”</p> <p>2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p> <p>3. Uzbekistan</p>

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14.	<p>Russia A.P. Vinogradov Geochemistry Institute Siberian Branch of the Academy of Sciences of Russia (IGC CO RAN) 1a, Favorsky Str., Irkutsk, 664033</p> <p>Contact Person: I.E. Vasilyeva Head of Analytical Department Tel.: (3952) 42-58-37 E-mail: vasira@igc.irk.ru</p>	<p>Development of CRM for composition of glass-crystalline (hollow-type) concentrate with magnetic properties of moscow cenospheres (CMC-1)</p> <p><u>/RU/08 (P)</u></p>	<p>SiO₂, % TiO₂, % Al₂O₃, % FeO, % Fe₂O₃tot, % MnO, % MgO, % CaO, % Na₂O, % K₂O, % P₂O₅, % CO₂, % ΠΠΠΠ, % As, % Ba, % Be, g/t Cr, g/t Cs, g/t Cu, g/t Hg, g/t Ni, g/t Pb, g/t Stot, % Sr, g/t Tl, g/t Th, g/t U, g/t V, g/t Zn, g/t Zr, g/t</p>	<p>55,0 – 66,0 0,3-1,0 18,0 -30,0 0,5-1,0 1,0-5,0 0,03-0,03 0,3-1,2 0,5-3,0 0,1-0,7 1,0-4,0 0,03-0,1 0,1-1,0 0,5-5,0 0,0001-0,001 0,03-0,3 1-5 10-55 1,0-7,0 15-60 0,1-0,80 10-50 10-50 0,02-0,08 15-60 0,3-3,0 0,05-0,5 0,01-0,1 50-110 1-10 150-300</p>	2008- 2010	<p>Participation of all COOMET member-countries is desirable</p> <p>Participants of work</p> <p>1. Belarus -“BelGIM”</p> <p>2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p> <p>3. Uzbekistan</p>

1	2	3	4	5	6	7
15.	<p>Russia A.P. Vinogradov Geochemistry Institute Siberian Branch of the Academy of Sciences of Russia (IGC CO RAN) 1a, Favorsky Str., Irkutsk, 664033</p> <p>Contact Person: I.E. Vasilyeva Head of Analytical Department Tel.: (3952) 42-58-37 E-mail: vasira@igc.irk.ru</p>	<p>Development of CRM for composition of glass-crystalline (hollow-type) concentrate with magnetic properties of belov cenospheres (CBC-1)</p> <p><u>/RU/08 (P)</u></p>	<p>SiO₂, % TiO₂, % Al₂O₃, % FeO, % Fe₂O₃tot, % MnO, % MgO, % CaO, % Na₂O, % K₂O, % P₂O₅, % CO₂, % ΠΠΠΠ, % As, g/t Ba, % Be, g/t Cr, g/t Cs, g/t Cu, g/t Hg, g/t Ni, g/t Pb, g/t Stot, g/t Sr, g/t Tl, g/t Th, g/t U, g/t V, g/t Zn, g/t Zr, g/t</p>	<p>57,0 – 68,0 0,5-1,5 15-25 0,3-2,0 1,5-7,0 0,03-0,1 1,0-3,0 1,0-5,0 0,7-3,0 1,0-5,0 0,1-0,4 0,5-3,0 1,0-4,0 0,05-1,0 0,1-0,35 1,5-5,0 30-90 0,1-3,0 15-70 0,03-0,5 10-80 10-60 0,1-0,85 20-100 0,1-1,0 0,05-2,0 0,01-2,0 70-200 5-50 100-300</p>	2008- 2010	<p>Participation of all COOMET member-countries is desirable</p> <p>Participants of work</p> <p>1. Belarus -“BelGIM”</p> <p>2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p> <p>3. Uzbekistan</p>

1	2	3	4	5	6	7
16	<p>Russia A.P. Vinogradov Geochemistry Institute Siberian Branch of the Academy of Sciences of Russia (IGC CO RAN) 1a, Favorsky Str., Irkutsk, 664033</p> <p>Contact Person: I.E. Vasilyeva Head of Analytical Department Tel.: (3952) 42-58-37 E-mail: vasira@igc.irk.ru</p>	<p>Development of CRM for composition of glass-crystalline (hollow-type) concentrate with magnetic properties of moscow microspheres (CMM-1)</p> <p><u>/RU/08 (P)</u></p>	<p>SiO₂, % TiO₂, % Al₂O₃, % FeO, % Fe₂O₃ tot, % MnO, % MgO, % CaO, % Na₂O, % K₂O, % P₂O₅, % CO₂, % ΠΠΠΠ, % As, g/t Ba, % Be, g/t Cr, g/t Cs, g/t Cu, g/t Hg, g/t Ni, g/t Pb, g/t S tot, g/t Sr, g/t Tl, g/t Th, g/t U, g/t V, g/t Zn, g/t Zr, g/t</p>	<p>2,0-10 0,10-0,4 1,0-3,0 5-15 58-68 0,03-0,15 1,0-4,0 3,5-8,3 0,13-0,60 0,10-0,50 0,01-0,07 1,5-6,0 1,1-4,3 0,1-1,0 0,2-0,5 0,15-0,7 400-500 0,3-1,5 10-50 0,03-0,3 30-70 10-50 100-400 100-600 0,05-0,5 0,1-2,0 0,1-2,0 10-70 70-200 30-120</p>	2008- 2010	<p>Participation of all COOMET member-countries is desirable</p> <p>Participants of work</p> <p>1. Belarus -“BelGIM”</p> <p>2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p> <p>3. Uzbekistan</p>

Index Nos.	Country, organization-CRM producer, Contact person	Name of the project	Certified characteristics	Planned values (range) of certified characteristics	Period of CRM development	Notes
1	2	3	4	5	6	7
<i>Part 2 (projects, proposed for initial consideration are included)</i>						
1.	Kazakhstan Open Joint-Stock Company “Kazchermetavtomatika” Karaganda T.S. Namazbaev Director Contact person: V.D. Savelov Tel.: (7212) 44 07 13 Fax: (7212) 44 09 45 E-mail: kazchem@nursat.kz	Development of CRM for moisture content and bulk density of blast-furnace coke	Moisture content Bulk density	0 –15 % 400 – 600 kg/m ³	2005 –2010	Participation of all COOMET member-countries is desirable
2.		Development of a set of CRMs reference equivalent gages	Moisture content Bulk density	0 –15 % 400 – 600 kg/m ³	2005 –2009	Participation of all COOMET member-countries is desirable Participants of work: 1. Russia - OJSC “WST Centre”
3.	Kazakhstan “The Centre of Laboratory Assurance of Ecological, Hydrochemical and Engineer Chemical Studies of “Ecohydroanalytic” 27, Aiteke bi Str. Almaty, 050010 Tel.: (7272) 37-13-75 Fax: (7272) 91-72-33 Contact Person: N.N. Mironenko Tel./fax: (7272) 94-21-34 e-mail: ecogidro@mail.ru	Development of CRM for composition of chloride-sulphate type water dry residue, containing Cu, Zn, Pb, Cd, Co, Ni, Se (CRM-201)	Mass fraction of elements, % Copper Zinc Lead Cadmium Cobalt Nickel Selenium	 0,4-0,8 0,4-0,8 0,05-0,1 0,008-0,01 0,05-0,08 0,05-0,1 0,005-0,008	2005-2009	Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus -BelGIM 2. Kazakhstan - “AES Ust-Kamenogorsk TPP”; “VK branch of Irtysh ecology department, Committee of ecological regulation and control MOOS RK”, Ust-Kamenogorsk -Cash Payment and Custody Centre of the National Bank of the Rep. of Kazakhstan; - Geological Survey Company “Topaz, Ltd.” 3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.

1	2	3	4	5	5	7
4.	<p>Ukraine Closed Joint-Stock Company “Metal and Quality” Zaporozhe</p> <p>Contact Person: A.D. Ponomarenko Director Tel.:+380 612 394256 E-mail: metalq@comint.net</p>	Development of CRMs of low content of oxygen, nitrogen, sulphur in carbon steel for analyzers of combustion	Content, %: Oxygen Nitrogen Sulphur	0,0003-0,0005 0,0025-0,0035 0,0005-0,0015	2009-2010	<p>Participation of all COOMET member-countries is desirable Participants of work 1. Russia - OJSC “The Ural Institute of Metals” Yekaterinburg</p> <p>Participation of Germany (BAM) is desirable</p>
5.	<p>Ukraine Institute “UkrNIISpecsteel” Zaporozhe</p> <p>Contact Person: V.N. Ustimenko Deputy Director Tel.: +380 612 394977 E-mail: metalq@comint.net</p>	Development of CRMs of component content in high-manganese steel for spectral analysis	Content,% Manganese Carbon Silicon Sulphur Phosphor Chromium Nickel	8-23 0,6-1,7 0,3-1,5 0,005-0,08 0,01-0,12 0,1-2,0 0,1-2,0	2009-2010	<p>Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus - Research Institute for Powder Metallurgy</p>
6.	<p>Ukraine Institute “UkrNIISpecsteel” Zaporozhe</p> <p>Contact Person: V.N. Ustimenko Deputy Director Tel.: +380 612 394977 E-mail: metalq@comint.net</p>	Development of CRMs of component content in 09G2S steel for chemical analysis and analyzers of combustion	Content,% Carbon Silicon Manganese Sulphur Phosphor Chromium Nickel Copper Nitrogen	0,09 0,9 2,0 0,02 0,02 0,03 0,01 0,02 0,07	2009-2010	<p>Participation of all COOMET member-countries is desirable 1.Kazakhstan - Aksusk Ferroalloy Works JSC “Kazchrom”, Central Laboratory</p>

1	2	3	4	5	6	7
7.	<p>Russia West-Siberian Research Institute of Physico-technical and Radiotechnical Measurements (VS NIIFTRI) V.N. Egorov Acting Director</p> <p>Contact Person: M.V. Kaschenko Head of Laboratory Tel.: (3952) 46-80-18 E-mail: kaschenko@niiftri.irk.ru</p>	Development of CRM for complex permittivity (quartz glass)	<p>Relative permittivity (ϵ),</p> <p>Loss tangent of a dielectric ($tg\delta$)</p>	<p>3,78 – 3,83</p> <p>$5 \cdot 10^{-5} - 2 \cdot 10^{-4}$</p>	2009-2010	Participation of all COOMET member-countries is desirable
8.	<p>Russia FGUP “Siberian Research Institute for Metrology” (FGUP “SNIIM”) Novosibirsk V.F. Matveychuk Director</p> <p>Contact Person: S.N. Sibirtsev Deputy head of department Tel.: (383) 229-75-89 Fax: (383) 210-13-60 sibirsev@sniim.siberia.net</p>	Development of CRM set for complex permittivity within the frequency range of 1 -18 GHz	<p>Relative permittivity (ϵ'),</p> <p>Loss tangent of a dielectric ($tg\delta$)</p>	<p>2 -300</p> <p>0,00005-0,005</p>	2009-2010	Participation of all COOMET member-countries is desirable, especially: Belarus Germany Moldova Russia Ukraine

1	2	3	4	5	6	7
9.	<p>Russia “The Urals Technical University – UPI” 19, Mira Str., Yekaterinburg, 620002 A.S. Berdin Science Pro-rector</p> <p>Contact Person: D.G. Lisienko Head of Laboratory Tel.: (343)375-44-36 E-mail: lisienko@dpt.ustu.ru</p>	Development of CRM for composition of graphite powder	Aluminium Boron Calcium Cadmium Cobalt Chromium Copper Iron Magnesium Manganese Molybdenum Sodium Niobium Nickel Lead Silicon Tantalum Titanium Vanadium Tungsten Zirconium	0,1 – 0,00001 % for all elements	2009-2010	Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus -BelGIM 2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.
10.	<p>Russia “The Urals Technical University – UPI” 19, Mira Str., Yekaterinburg, 620002 A.S. Berdin Science Pro-rector</p> <p>Contact Person: D.G. Lisienko Head of Laboratory Tel.: (343)375-44-36 E-mail: lisienko@dpt.ustu.ru</p>	Development of CRM of mercury mass fraction (matrix: silicon oxide)	Mercury	1 – 0,03 mln ⁻¹	2009-2010	Participation of all COOMET member-countries is desirable

1	2	3	4	5	6	7
11.	<p>Russia West-Siberian Testing Centre (WSTCentre), 9, Ordzhonikidze Str., Novokuznetsk, Kemerovo Province 654027 T.N. Voropaeva Deputy Director Tel.: (8-3843) 74-57-22 Fax: (8-3843) 74-39-76 E-mail: zsic@mail.ru</p> <p>Contact Person: E.Y. Tsukanova Leading Specialist Tel.: (8-3843)-74 56-34 E-mail: mineralog.mail.ru</p>	Development of CRMs for composition of zirconium concentrate	<p>Mass fraction of components, % Silicon oxide Titanium oxide Aluminium oxide Total iron oxide Iron oxide Manganese oxide Calcium oxide Magnesium oxide Phosphor oxide Chromium oxide Zirconium oxide Tin Niobium Tantalum Thorium Uranium Beryllium</p>	<p>20,00-35,00 1,00-4,00 0,05-0,20 0,50-1,07 0,10-0,50 0,01-0,10 0,10-0,50 0,05-0,30 0,10-1,50 0,10-1,50 25,00-65,00</p>	2007-2011	<p>Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus - Central laboratory “BelGeology” 2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p>
12.	<p>Russia West-Siberian Testing Centre (WSTCentre), 9, Ordzhonikidze Str., Novokuznetsk, Kemerovo Province 654027 T.N. Voropaeva Deputy Director Tel.: (8-3843) 74-57-22 Fax: (8-3843) 74-39-76 E-mail: zsic@mail.ru</p> <p>Contact Person: E.Y. Tsukanova Leading Specialist Tel. : (8-3843)-74 56-34 E-mail : mineralog.mail.ru</p>	Development of CRMs for composition and properties of coal, T rank	<p>Ash content, % Total sulphur, % Gross calorific value, MJ/kg Volatile matter yield, % Carbon, % Hydrogen, % Phosphor, % Nitrogen, % Fluorine, % Chlorine, % Nickel, % Cobalt, % Molybdenum, % Selenium, % Arsenic, %</p>	<p>20,0-25,0 0,1-0,3 30,0-37,0 15,0-18,0 80,0-90,0 3,0-6,0 0,01-0,05 1,0-3,0 0,001-0,01 0,01-0,05 0,001-0,005 0,0001-0,0003 0,0001-0,001 0,0001-0,01 0,0001-0,01</p>	2007-2011	<p>Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus -BelGIM 2. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.</p>

1	2	3	4	5	6	7
13.	<p>Russia West-Siberian Testing Centre (WSTCentre), 9, Ordzhonikidze Str., Novokuznetsk Kemerovo Province 654027 T.N. Voropaeva Deputy Director Tel.: (8-3843) 74-57-22 Fax: (8-3843) 74-39-76 E-mail: zsic@mail.ru</p> <p>Contact Person: E.Y. Tsukanova Leading Specialist Tel.: (8-3843)-74 56-34 E-mail: mineralog.mail.ru</p>	Additional certification of CRMs for composition of manganese ore (SO-21) CRM 8516-2004	Mass fraction of elements, % Chromium Vanadium Arsenic	0,0020-0,0060 0,0020-0,0060 0,060-0,10	2009-2010	Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus - Central laboratory “BelGeology” 2. Kazakhstan - “ASILab, Ltd”, Ust-Kamenogorsk 3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.
14.	<p>Russia West-Siberian Testing Centre (WSTCentre), 9, Ordzhonikidze Str., Novokuznetsk Kemerovo Province 654027 T.N. Voropaeva Deputy Director Tel.: (8-3843) 74-57-22 Fax: (8-3843) 74-39-76 E-mail: zsic@mail.ru</p> <p>Contact Person: E.Y. Tsukanova Leading Specialist Tel.: (8-3843)-74 56-34 E-mail: mineralog.mail.ru</p>	Additional certification of CRMs for composition of iron ore (SO-20) CRM 8515-2004	Mass fraction of elements, % Nickel Molybdenum Cobalt Chromium Vanadium Barium	0,0010-0,0050 0,0010-0,0050 0,0010-0,0050 0,001-0,01 0,001-0,01 0,05-0,2	2009-2010	Participation of all COOMET member-countries is desirable Participants of work: 1. Belarus - Central laboratory “BelGeology” 2. Kazakhstan - “ASILab, Ltd”, Ust-Kamenogorsk 3. Kyrgyzstan - CL of the State Geology and Mineral Resources Agency under the Government of Kyrgyz Rep.

1	2	3	4	5	6	7
15.	<p>Russia OJSC “The Urals Institute of Metals” 14, Gagarin Str., GSP-174, Yekaterinburg, 620219 L.A. Smirnov General Director Tel.: (343) 374-03-91 Fax: (343) 374-14-33 E-mail: uim@ural.ru</p> <p>Contact Person: S.B. Shubina Leading researcher Tel.: (343) 375-76-44</p>	<p>International comparison tests of CRMs of oxygen, hydrogen and nitrogen mass fraction in carbon steel (SG-18) CRM 8725-2005 (CIS CRM 1273:2006)</p>	<p>Mass fraction of elements, %</p> <p>Oxygen</p> <p>Hydrogen</p> <p>Nitrogen</p>	<p>$16,7 \cdot 10^{-4}$</p> <p>$1,5 \cdot 10^{-4}$</p> <p>$38,4 \cdot 10^{-4}$</p>	2009-2010	<p>Participation of all COOMET member-countries is desirable, especially of Germany (BAM) and Ukraine</p> <p>Belarus participated in initial certification</p>
16.	<p>Russia OJSC “Institute Gipronickel” 11, Grazhdansky Pr., S. Petersburg, 125220 A.N. Golov Research and Development Director</p> <p>Contact Person: T.V. Shabelnikova Tel.: (812) 335-3101 Fax: (812) 335-3272 E-mail: sapr@nickel.spb.ru</p>	<p>International comparison tests of CRM for composition of copper oxide (OM-2, OM-7) CRM 8608-2004 (CIS CRM 1268:2006)</p>	<p>Mass fraction of elements, %</p> <p>Bismuth</p> <p>Iron</p> <p>Cadmium</p> <p>Cobalt</p> <p>Silicon</p> <p>Manganese</p> <p>Arsenic</p> <p>Nickel</p> <p>Tin</p> <p>Lead</p> <p>Selenium</p> <p>Silver</p> <p>Antimony</p> <p>Tellurium</p> <p>Phosphor</p> <p>Chromium</p> <p>Zinc</p>	Impurities	2009-2010	<p>Participation of all COOMET member-countries is desirable</p> <p>1. Belarus - BelGIM</p>

1	2	3	4	5	6	7
17.	<p>Russia All-Russia Research Institute for Petroleum Refining (OAO "VNII NP") Moscow Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolvniinp@inetm.ru</p>	<p>Development of CRMs for sulphur microimpurities content in petroleum products (5 types): CRM MDMS -1; CRM MDMS -2; CRM MDMS -3; CRM MDMS -4; CRM MDMS -5;</p>	<p>Mass fraction of sulphur microimpurities, % CRM MDMS -1 CRM MDMS -2 CRM MDMS -3 CRM MDMS -4 CRM MDMS -5</p>	<p>0,0000 – 0,0005 0,0005 – 0,0020 0,0020 – 0,010 0,010 - 0,020 0,020 – 0,040</p>	2009-2010	Participation of all COOMET member-countries is desirable
18	<p>Scientific and Production Association "INTEGRSO" Ufa A.H. Muhamedzyanov General Director "INTEGRSO" Limited Liability Company Ufa R.A. Muhamedzyanov Executive Director Tel. (347) 3071-152 E-mail: integrso@ufanet.ru</p>	<p>Development of CRMs of ultimate temperature of diesel fuel filterability (2 types): CRM PTF DT -1; CRM PTF DT -2</p>	<p>Ultimate filterability temperature, ° C CRM PTF DT -1 CRM PTF DT -2</p>	<p>0 – minus 20 minus 20 – minus 40</p>	2009-2010	Participation of all COOMET member-countries is desirable
19.	<p>FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	<p>Development of CRM of actual gum concentration in jet fuel CRM KFSA-1</p>	<p>Concentration of actual gums, mg/100 cm³ of fuel/ mg/cm³ of fuel CRM KFSA-1</p>	<p>1,0 – 5,0 0,050 – 0,150</p>	2009-2010	Participation of all COOMET member-countries is desirable

1	2	3	4	5	6	7
20.	<p>Russia All-Russia Research Institute for Petroleum Refining (OAO "VNII NP") Moscow Contact Person: L.G. Nehamkina Head of Metrological Research Laboratory Tel. (095) 361 23 70 E-mail: metrolniinp@inetm.ru</p> <p>Scientific and Production Association "INTEGRSO" Ufa</p>	Development of CRMs of calcium and zinc content in oils (3 types): CRM MDKC – 1; CRM MDKC – 2; CRM MDKC – 3	<p>Mass fraction, %</p> <p>CRM MDKC – 1 Ca Zn</p> <p>CRM MDKC – 2 Ca Zn</p> <p>CRM MDKC – 3 Ca Zn</p>	<p>0,10 – 0,20 0,10 – 0,15 0,20 – 0,30 0,05 – 0,10 0,30 – 0,40 0,07 – 0,12</p>	2009-2010	Participation of all COOMET member-countries is desirable
21.	<p>A.H. Muhamedzyanov General Director "INTEGRSO" Limited Liability Company Ufa R.A. Muhamedzyanov Executive Director Tel. (347) 3071-152 E-mail: integrso@ufanet.ru</p>	Development of CRMs of phosphorus content in oils (2 types) CRM MDF – 1; CRM MDF – 2	<p>Mass fraction, %</p> <p>CRM MDF – 1 CRM MDF – 2</p>	<p>0,02 – 0,10 0,10 – 0,20</p>	2009-2010	Participation of all COOMET member-countries is desirable
22.	<p>FGUP "UNIIM" Yekaterinburg I.E. Dobrovinsky Head of CRM State Service Department Tel: (343) 350-60-68 E-mail: dobrov@uniim.ru</p>	Development of CRM of fractional yield CRM FS TN	<p>% of distillation at the temperature</p> <p>CRM FS TH</p>	<p>up to 200°C up to 300°C</p>	2009-2010	Participation of all COOMET member-countries is desirable