

Comparison of nuclear cooperation agreements major nuclear supplier states concluded with India

*Number in the brackets shows the number of article of the corresponding agreement

	United States	Russia	ROK	Kazakhstan
Signature	October 10, 2008	March 12, 2010	July 25, 2011	April 15, 2011
Entry into force	December 6, 2008	Presumably entered into force	Presumably entered into force	Presumably entered into force
Peaceful and non-explosive use commitment	Yes (9)	Yes (7.1.a))	Yes (8.1)	Yes (9.2)
Safeguards applied to India	India specific safeguards (10.2) There is a provision which implies that continuation of safeguards in India is tied to the fuel supply commitment by the United States. (5.6.(c)) Upon the request of either Party, the other Party shall report or permit the IAEA to report to the requesting Party on the status of all inventories of material subject to the Agreement. (10.7)	India specific safeguards (7.1.b))	India specific safeguards (8.2)	India specific safeguards (9.4)
Fall-back safeguards	Yes (10.4)	No	Yes (8.3)	No
Commitment of nuclear fuel supply	Yes (5.6)	No	No	No
Enrichment	Consent is granted for enrichment up to 20% of nuclear material subject to the Agreement. (6.i))	Consent is granted for enrichment up to 20% of transferred nuclear material. (6.1)	Consent is granted for enrichment up to 20% of nuclear material subject to the Agreement. (6.2)	Consent is necessary for enrichment to more than 20% of nuclear material subject to the Agreement =Consent is granted for enrichment up to 20%. (8.1)
Reprocessing	Consent is granted for reprocessing or other alteration of nuclear material subject to the Agreement. To bring India's right into effect, construction of a new national reprocessing facility dedicated to reprocessing	Reprocessing and storage of spent nuclear fuel obligated to Russia under IAEA safeguards in national facilities in India is granted. (6.2)	Reprocessing and alternation in form or content of nuclear material subject to the Agreement at a national facility under IAEA safeguards is granted. (6.1)	Reprocessing and alteration in form or content of nuclear material subject to the Agreement at national facilities under IAEA safeguards is granted. (8.2)
Alteration in form or content		No provision		

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	<p>safeguarded nuclear material and conclusion of the arrangement and procedure is required. (6.iii) Arrangement and procedure is subject to suspension in exceptional circumstances (14.9) Consent is granted for irradiation of plutonium, uranium-233, high enriched uranium and irradiated nuclear material subject to the Agreement. (6.ii) Consent is granted for post-irradiation examination of nuclear material subject to the Agreement. (6.iv))</p>			
Storage of plutonium, uranium 233 and high enriched uranium	<p>Storage of plutonium, uranium 233 and high enriched uranium subject to the Agreement in facilities subject to the levels of physical protection set out in INFCIRC/225/Rev.4 (7.1)</p>	No provision	No provision	No provision
Transfer beyond the jurisdiction	<p>The other Party's agreement is necessary. (7.2)</p>	<p>Prior written consent of the other Party and a commitment (peaceful and non-explosive use, safeguards and physical protection) by the recipient state is necessary. (7.1.d))</p>	<p>Prior written consent of the other Party and a commitment (peaceful and non-explosive use, safeguards and physical protection) by the recipient state is necessary. (10)</p>	<p>Prior written consent of the other Party and a commitment (peaceful use, safeguards and physical protection) by the recipient state is necessary. (7.2)</p>
Physical protection	<p>Physical protection measures in accordance with INFCIRC/225/Rev.4 and 1980 Convention on the Physical Protection of Nuclear Material (8)</p>	<p>Not lower than the level recommended by INFCIRC/225/Rev.4 (7.1.c))</p>	<p>Minimum level is Annex 1 of the Convention on the Physical Protection of Nuclear Material. Each party will be guided by INFCIRC/225/Rev.4 (9)</p>	<p>Not lower than the level laid down by the IAEA (10)</p>
Cooperation on sensitive nuclear technology	<p>Amendment of the Agreement is required for the transfer of sensitive nuclear technology and sensitive nuclear facilities.</p>	<p>A separate agreement is required for the transfer of sensitive nuclear technology and sensitive nuclear facilities.</p>	Not prohibited	Not prohibited

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	(5.2)	(6.3)		
Regulation on the dual-use items	Transfer of dual-use items is subject to the Party's respective applicable laws, regulations and license policies. (5.2)	Yes (7.2) (Use only for declared purposes, prohibition of the use for nuclear explosive devices or in fuel cycle activities, etc.)	No	No
Nuclear test explosion	Agreement includes the provision which alludes to the nuclear test by India as a reason for seeking the termination of the Agreement. (14.2)	Not mentioned	Not mentioned	Not mentioned
Duration	40 years Automatic extension for 10 years each (16.2)	40 years Automatic extension for 10 years each (11.2)	40 years Automatic extension for 20 years each (13.3)	40 years Automatic extension for 20 years each (13.2)
Termination prior to the expiration of the Agreement	Right to terminate the Agreement or cessation of the cooperation is granted with one year's notice. Non-compliance of the Agreement is not necessarily required as the reason for the termination or cessation. Right of return of items subject to the Agreement in case of the termination is provided. (14)	No provision for the termination prior to the expiration of the Agreement.	Right to terminate the Agreement or cessation of the cooperation is granted with one year's notice. (13.4,5) Non-compliance of the Agreement is not necessarily required as the reason for the termination or cessation.	Right of termination or suspension can be exercised in case of violation or non-compliance of the Agreement. (13.3)