



WORLD TRADE ORGANIZATION  
ORGANISATION MONDIALE DU COMMERCE  
ORGANIZACIÓN MUNDIAL DEL COMERCIO

Reference: WLI/100

3 February 2011

**MARRAKESH AGREEMENT ESTABLISHING  
THE WORLD TRADE ORGANIZATION  
DONE AT MARRAKESH ON 15 APRIL 1994**

**GENERAL AGREEMENT ON TARIFFS AND TRADE 1994**

**CERTIFICATION OF MODIFICATIONS AND RECTIFICATIONS TO  
SCHEDULE CXIV - KUWAIT**

TRANSMISSION OF CERTIFIED TRUE COPY

I have the honour to furnish herewith a certified true copy of the Certification of Modifications and Rectifications to Schedule **CXIV - Kuwait**, effective **19 January 2011**.

Pascal Lamy  
Director-General

11-0534

WT/Let/752



**SCHEDULES OF TARIFF CONCESSIONS TO THE  
GENERAL AGREEMENT ON TARIFFS AND TRADE 1994**

**CERTIFICATION OF MODIFICATIONS AND RECTIFICATIONS**

**SCHEDULE CXIV - KUWAIT**

WHEREAS the CONTRACTING PARTIES to the General Agreement on Tariffs and Trade 1947 adopted, on 26 March 1980, a Decision on Procedures for Modification and Rectification of Schedules of Tariff Concessions (BISD 27S/25);

WHEREAS in accordance with the provisions of the above-mentioned Decision, a draft containing modifications and rectifications to Schedule **CXIV - Kuwait** was communicated to all Members of the World Trade Organization in document G/MA/TAR/RS/222 on 19 October 2010;

IT IS HEREBY CERTIFIED that the modifications and rectifications to Schedule **CXIV - Kuwait** are established in conformity with the above-mentioned Decision.

The annexed modifications and rectifications are effective as of **19 January 2011**

This Certification is deposited with the Director-General of the World Trade Organization, who shall promptly furnish a certified true copy to each Member of the World Trade Organization. It shall be registered in accordance with the provisions of Article 102 of the Charter of the United Nations.

DONE at Geneva this twentieth day of January, two thousand and eleven.

Pascal Lamy

Certified true copy:

Director-General



# **SCHEDULE CXIV - KUWAIT**

19 JANUARY 2011

**SCHEDULE CXIV - KUWAIT**  
**Agreement on Information Technology (ITA)**  
**Attachment A**

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	381800	-Chemical elements doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics	100	0	2012	UR		0	1		
	7017	Laboratory, hygienic or pharmaceutical glassware, whether or not graduated or calibrated.									
	701710	-Of fused quartz or other fused silica									
ex	701710	--Quartz reactor tubes and holders designed for insertion into diffusion and oxidation furnaces for production of semiconductor wafers.	100	0	2012	UR		0		113	
	702000	-Other articles of glass.									
ex	702000	--Quartz reactor tubes and holders designed for insertion into diffusion and oxidation furnaces for production of semiconductor wafers	100	0	2012	UR		0		113	
	8419	Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.									
	84198	-Other machinery, plant and equipment:									
	841989	--Other									
ex	841989	--- Chemical vapor deposition apparatus for semiconductor production	100	0	2012	UR		0		114	
	841990	-Parts									
ex	841990	-- Parts of chemical vapor deposition apparatus for semiconductor production	100	0	2012	UR		0		115	
	8421	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	84211	-Centrifuges, including centrifugal dryers:									
	842119	--Other									
ex	842119	---Spin dryers for semiconductor wafer processing	100	0	2012	UR		0		116	
	84219	-Parts:									
	842191	--Of centrifuges, including centrifugal dryers									
ex	842191	---Parts of spin dryers for semiconductor wafer processing	100	0	2012	UR		0		117	
	8424	Mechanical appliances (whether or not hand-operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines and similar jet projecting machines.									
	84248	-Other appliances:									
	842489	--Other									
ex	842489	---Deflash machines for cleaning and removing contaminants from the metal leads of semiconductor packages prior to the electroplating process	100	0	2012	UR		0		118	
ex	842489	---Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		142, 168	
ex	842489	---Spraying appliances for etching, stripping or cleaning semiconductor wafers	100	0	2012	UR		0		119	
	842490	-Parts									
ex	842490	--Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	842490	--Parts of spraying appliances for etching, stripping or cleaning semiconductor wafers	100	0	2012	UR		0		120	
	8428	Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics).									
	842820	-Pneumatic elevators and conveyors									
ex	842820	--Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		139	
	84283	-Other continuous-action elevators and conveyors, for goods or materials:									
	842833	--Other, belt type									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	842833	---Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		139	
	842839	--Other									
ex	842839	---Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		139	
	842890	-Other machinery									
ex	842890	--Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		139	
	8431	Parts suitable for use solely or principally with the machinery of headings Nos. 84.25 to 84.30.									
	84313	-Of machinery of heading No. 84.28:									
	843139	--Other									
ex	843139	---Parts of automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		154	
	8456	Machine-tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam or plasma arc processes.									
	845610	-Operated by laser or other light or photon beam processes									
ex	845610	--Lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		125	
ex	845610	--Machines for working any material by removal of material, by laser or other light or photo beam in the production of semiconductor wafers	100	0	2012	UR		0		121	
	84569	-Other:									
	845691	--For dry-etching patterns on semiconductor materials	100	0	2012	UR		0		122, 123	
	845699	--Other									
ex	845699	--- Lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		125	
ex	845699	---Focused ion beam milling machines to produce or repair masks and reticles for patterns on semiconductor devices	100	0	2012	UR		0		124	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	845699	---Apparatus for stripping or cleaning semiconductor wafers	100	0	2012	UR		0		122	
	8462	Machine-tools (including presses) for working metal by forging, hammering or die-stamping; machine-tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above.									
	84622	-Bending, folding, straightening or flattening machines (including presses):									
	846221	--Numerically controlled									
ex	846221	---Machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		146	
	846229	--Other									
ex	846229	---Machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		146	
	8464	Machine-tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass.									
	846410	-Sawing machines									
ex	846410	--Machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	100	0	2012	UR		0		126	
	846420	-Grinding or polishing machines									
ex	846420	--Grinding, polishing and lapping machines for processing of semiconductor wafers	100	0	2012	UR		0		127	
	846490	-Other									
ex	846490	--Dicing machines for scribing or scoring semiconductor wafers	100	0	2012	UR		0		128	
ex	846490	--Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		142, 168	
	8466	Parts and accessories suitable for use solely or principally with the machines of headings Nos. 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.									
	846610	-Tool holders and self-opening dieheads									
ex	846610	--Parts for machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	100	0	2012	UR		0		129	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	846610	--Parts of dicing machines for scribing or scoring semiconductor wafers	100	0	2012	UR		0		130	
ex	846610	--Parts of lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		133	
ex	846610	--Parts of machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		157	
	846620	-Work holders									
ex	846620	--Parts for machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	100	0	2012	UR		0		129	
ex	846620	--Parts of dicing machines for scribing or scoring semiconductor wafers	100	0	2012	UR		0		130	
ex	846620	--Parts of lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		133	
ex	846620	--Parts of apparatus for stripping or cleaning semiconductor wafers	100	0	2012	UR		0		135	
ex	846620	--Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	846620	--Parts of machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		157	
	846630	-Dividing heads and other special attachments for machine-tools									
ex	846630	--Parts for machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	100	0	2012	UR		0		129	
ex	846630	--Parts of dicing machines for scribing or scoring semiconductor wafers	100	0	2012	UR		0		130	
ex	846630	--Parts of lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		133	
ex	846630	--Parts of apparatus for stripping or cleaning semiconductor wafers	100	0	2012	UR		0		135	
ex	846630	--Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	846630	--Parts of machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		157	
	84669	-Other:									
	846691	--For machines of heading No. 84.64									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	846691	--Parts of grinding, polishing and lapping machines for processing of semiconductor wafers	100	0	2012	UR		0		131	
ex	846691	--Parts for machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	100	0	2012	UR		0		129	
ex	846691	--Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	846691	--Parts of dicing machines for scribing or scoring semiconductor wafers	100	0	2012	UR		0		130	
	846693	--For machines of headings Nos. 84.56 to 84.61									
ex	846693	---Parts of focused ion beam milling machines to produce or repair masks and reticles for patterns on semiconductor devices	100	0	2012	UR		0		132	
ex	846693	---Parts of lasercutters for cutting contacting tracks in semiconductor production by laser beam	100	0	2012	UR		0		133	
ex	846693	---Parts of machines for working any material by removal of material, by laser or other light or photo beam in the production of semiconductor wafers	100	0	2012	UR		0		134	
ex	846693	---Parts of apparatus for stripping or cleaning semiconductor wafers	100	0	2012	UR		0		135	
ex	846693	---Parts of machines for dry-etching patterns on semiconductor materials	100	0	2012	UR		0		136	
	846694	--For machines of heading No. 84.62 or 84.63									
ex	846694	---Parts of machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		157	
	8469	Typewriters other than printers of heading No. 84.71; word-processing machines.									
	84691	-Automatic typewriters and word-processing machines:									
	846911	--Word-processing machines	100	0	2012	UR		0	2		
	8470	Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar machines, incorporating a calculating device; cash registers.									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	847010	-Electronic calculators capable of operation without an external source of electric power and pocket-size data recording, reproducing and displaying machines with calculating functions	100	0	2012	UR		0	3		
	84702	-Other electronic calculating machines:									
	847021	--Incorporating a printing device	100	0	2012	UR		0	4		
	847029	--Other	100	0	2012	UR		0	5		
	847030	-Other calculating machines	100	0	2012	UR		0	6		
	847040	-Accounting machines	100	0	2012	UR		0	7		
	847050	-Cash registers	100	0	2012	UR		0	8		
	847090	-Other	100	0	2012	UR		0	9		
	8471	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included.									
	847110	-Analogue or hybrid automatic data processing machines	100	0	2012	UR		0	10		191
	847130	-Portable digital automatic data processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display	100	0	2012	UR		0	11		191
	84714	-Other digital automatic data processing machines:									
	847141	--Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined	100	0	2012	UR		0	12		191
	847149	--Other, presented in the form of systems	100	0	2012	UR		0	13		191, 193, 194, 195, 196, 198, 199, 200, 201
	847150	-Digital processing units other than those of subheadings 8471.41 and 8471.49, whether or not containing in the same housing one or two of the following types of unit: storage units, input units, output units	100	0	2012	UR		0	14		191, 199
	847160	-Input or output units, whether or not containing storage units in the same housing	100	0	2012	UR		0	15		193, 195, 198, 200
	847170	-Storage units	100	0	2012	UR		0	16		196, 201

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	847180	-Other units of automatic data processing machines	100	0	2012	UR		0	17		194
	847190	-Other	100	0	2012	UR		0	18		
	8472	Other office machines (for example, hectograph or stencil duplicating machines, addressing machines, automatic banknote dispensers, coin-sorting machines, coin-counting or wrapping machines, pencil-sharpening machines, perforating or stapling									
	847290	-Other									
ex	847290	--Automatic teller machines	100	0	2012	UR		0	19		
	8473	Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings Nos. 84.69 to 84.72.									
	847310	-Parts and accessories of the machines of heading No. 84.69									
ex	847310	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	84732	-Parts and accessories of the machines of heading No. 84.70:									
	847321	--Of the electronic calculating machines of subheading No. 8470.10, 8470.21 or 8470.29	100	0	2012	UR		0	20		199
	847329	--Other	100	0	2012	UR		0	21		199
	847330	-Parts and accessories of the machines of heading No. 84.71	100	0	2012	UR		0	22		193, 199, 202
	847340	-Parts and accessories of the machines of heading No. 84.72									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	847340	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	847350	-Parts and accessories equally suitable for use with machines of two or more of the headings Nos. 84.69 to 84.72	100	0	2012	UR		0	23		199
	8477	Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this Chapter.									
	847710	-Injection-moulding machines									
ex	847710	--Encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		137, 144	
	847740	-Vacuum moulding machines and other thermoforming machines									
ex	847740	--Encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		137, 144	
	84775	-Other machinery for moulding or otherwise forming:									
	847759	--Other									
ex	847759	---Encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		137, 144	
	847790	-Parts									
ex	847790	--Parts of encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		155	
ex	847790	--Parts of encapsulation equipment	100	0	2012	UR		0		138	
	8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.									
	847950	-Industrial robots, not elsewhere specified or included									
ex	847950	-- Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		139	
	84798	-Other machines and mechanical appliances:									
	847989	--Other									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	847989	---Chemical vapor deposition apparatus for semiconductor production	100	0	2012	UR		0		114	
ex	847989	--- Encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		137, 144	
ex	847989	---Apparatus for growing or pulling monocrystal semiconductor boules	100	0	2012	UR		0		140	
ex	847989	---Apparatus for physical deposition by sputtering on semiconductor wafers	100	0	2012	UR		0		141	
ex	847989	---Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		142, 168	
ex	847989	---Die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	100	0	2012	UR		0		143	
ex	847989	---Epitaxial deposition machines for semiconductor wafers	100	0	2012	UR		0		145	
ex	847989	--- Machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		146	
ex	847989	---Physical deposition apparatus for semiconductor production	100	0	2012	UR		0		147	
ex	847989	---Spinners for coating photographic emulsions on semiconductor wafers	100	0	2012	UR		0		148	
ex	847990	--Parts of chemical vapor deposition apparatus for semiconductor production	100	0	2012	UR		0		115	
ex	847990	--Part of apparatus for physical deposition by sputtering on semiconductor wafers	100	0	2012	UR		0		149	
ex	847990	--Parts for die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	100	0	2012	UR		0		150	
ex	847990	--Parts for spinners for coating photographic emulsions on semiconductor wafers	100	0	2012	UR		0		151	
ex	847990	--Parts of apparatus for growing or pulling monocrystal semiconductor boules	100	0	2012	UR		0		152	
ex	847990	--Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	847990	-- Parts of automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	100	0	2012	UR		0		154	
ex	847990	-- Parts of encapsulation equipment for assembly of semiconductors	100	0	2012	UR		0		155	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	847990	--Parts of epitaxial deposition machines for semiconductor wafers	100	0	2012	UR		0		156	
ex	847990	-- Parts of machines for bending, folding and straightening semiconductor leads	100	0	2012	UR		0		157	
ex	847990	--Parts of physical deposition apparatus for semiconductor production	100	0	2012	UR		0		158	
	8480	Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics.									
	84807	-Moulds for rubber or plastics:									
	848071	--Injection or compression types									
ex	848071	---Injection and compression moulds for the manufacture of semiconductor devices	100	0	2012	UR		0		159	
	8504	Electrical transformers, static converters (for example, rectifiers) and inductors.									
	850440	-Static converters									
ex	850440	--Static converters for automatic data processing machines and units thereof, and telecommunication apparatus	100	0	2012	UR		0	24		
ex	850440	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	850450	-Other inductors									
ex	850450	--Other inductors for power supplies for automatic data processing machines and units thereof, and telecommunication apparatus	100	0	2012	UR		0	25		
	850490	-Parts									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	850490	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8514	Industrial or laboratory electric (including induction or dielectric) furnaces and ovens; other industrial or laboratory induction or dielectric heating equipment.									
	851410	-Resistance heated furnaces and ovens									
ex	851410	--Resistance heated furnaces and ovens for the manufacture of semiconductor devices on semiconductor wafers	100	0	2012	UR		0		160	
	851420	-Induction or dielectric furnaces and ovens									
ex	851420	--Inductance or dielectric furnaces and ovens for the manufacture of semiconductor devices on semiconductors wafers	100	0	2012	UR		0		161	
	851430	-Other furnaces and ovens									
ex	851430	--Parts of resistance heated furnaces and ovens for the manufacture of semiconductor devices on semiconductor wafers	100	0	2012	UR		0		163	
ex	851430	--Apparatus for rapid heating of semiconductor wafers	100	0	2012	UR		0		162	
	851490	-Parts									
ex	851490	--Parts of furnaces and ovens of Headings No 8514 10 to No 8514 30	100	0	2012	UR		0		165	
ex	851490	--Parts of apparatus for rapid heating of wafers	100	0	2012	UR		0		164	
	8515	Electric (including electrically heated gas), laser or other light or photon beam, ultrasonic, electron beam, magnetic pulse or plasma arc soldering, brazing or welding machines and apparatus, whether or not capable of cutting; electric machines and apparatus for hot spraying of metals or cermets.									
	851580	-Other machines and apparatus									
ex	851580	--Die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	100	0	2012	UR		0		143	
	851590	-Parts									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	851590	--Parts for die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	100	0	2012	UR		0		150	
	8517	Electrical apparatus for line telephony or line telegraphy, including line telephone sets with cordless handsets and telecommunication apparatus for carrier-current line systems or for digital line systems; videophones.									
	85171	-Telephone sets; videophones:									
	851711	--Line telephone sets with cordless handsets	100	0	2012	UR		0	26		
	851719	--Other	100	0	2012	UR		0	27		
	85172	-Facsimile machines and teleprinters:									
	851721	--Facsimile machines	100	0	2012	UR		0	28		
	851722	--Teleprinters	100	0	2012	UR		0	29		
	851730	-Telephonic or telegraphic switching apparatus	100	0	2012	UR		0	30		
	851750	-Other apparatus, for carrier-current line systems or for digital line systems	100	0	2012	UR		0	31		194, 199, 202, 203
	851780	-Other apparatus	100	0	2012	UR		0	32		
	851790	-Parts	100	0	2012	UR		0	33		199
	8518	Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones, earphones and combined microphone/speaker sets; audio-frequency electric amplifiers; electric sound amplifier sets.									
	851810	-Microphones and stands therefor									
ex	851810	--Microphones having a frequency range of 300 Hz to 3,4 KHz with a diameter of not exceeding 10 mm and a height not exceeding 3 mm, for telecommunication use	100	0	2012	UR		0	34		
	85182	-Loudspeakers, whether or not mounted in their enclosures:									
	851829	--Other									
ex	851829	---Loudspeakers, without housing, having a frequency range of 300 Hz to 3,4 KHz with a diameter of not exceeding 50 mm, for telecommunication use	100	0	2012	UR		0	36		
	851830	-Headphones, earphones and combined microphone/speaker sets									
ex	851830	--Line telephone handsets	100	0	2012	UR		0	35		
	851840	-Audio-frequency electric amplifiers									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	851840	--Electric amplifiers when used as repeaters in line telephony products falling within the Information Technology Agreement (ITA), and parts thereof	100	0	2012	UR		0			192
	851890	-Parts									
ex	851890	--Electric amplifiers when used as repeaters in line telephony products falling within the Information Technology Agreement (ITA), and parts thereof	100	0	2012	UR		0			192
ex	851890	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8520	Magnetic tape recorders and other sound recording apparatus, whether or not incorporating a sound reproducing device.									
	852020	-Telephone answering machines	100	0	2012	UR		0	37		199
	8522	Parts and accessories suitable for use solely or principally with the apparatus of headings Nos. 85.19 to 85.21.									
	852290	-Other									
ex	852290	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8523	Prepared unrecorded media for sound recording or similar recording of other phenomena, other than products of Chapter 37.									
	85231	-Magnetic tapes:									
	852311	--Of a width not exceeding 4 mm	100	0	2012	UR		0	38		

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	852312	-- Of a width exceeding 4 mm but not exceeding 6.5 mm	100	0	2012	UR		0	39		
	852313	--Of a width exceeding 6.5 mm	100	0	2012	UR		0	40		
	852320	-Magnetic discs	100	0	2012	UR		0	41		201
	852390	-Other	100	0	2012	UR		0	42		201
	8524	Records, tapes and other recorded media for sound or other similarly recorded phenomena, including matrices and masters for the production of records, but excluding products of Chapter 37.									
	85243	-Discs for laser reading systems:									
	852431	--For reproducing phenomena other than sound or image	100	0	2012	UR		0	43		201
	852439	--Other									
ex	852439	---For reproducing representations of instructions, data, sound, and image, recorded in a machine readable binary form, and capable of being manipulated or providing interactivity to a user, by means of an automatic data processing machine	100	0	2012	UR		0	44		
ex	852439	--Proprietary format storage devices including media therefor automatic data processing machines, with or without removable media and whether magnetic, optical or other technology, including Bernoulli Box, Syquest, or Zipdrive cartridge storage units.	100	0	2012	UR		0			201
	852440	-Magnetic tapes for reproducing phenomena other than sound or image	100	0	2012	UR		0	45		
	85249	-Other:									
	852491	--For reproducing phenomena other than sound or image	100	0	2012	UR		0	46		201
	852499	--Other									
ex	852499	---For reproducing representations of instructions, data, sound, and image, recorded in a machine readable binary form, and capable of being manipulated or providing interactivity to a user, by means of an automatic data processing machine	100	0	2012	UR		0	47		
ex	852499	--Proprietary format storage devices including media therefor automatic data processing machines, with or without removable media and whether magnetic, optical or other technology, including Bernoulli Box, Syquest, or Zipdrive cartridge storage units.	100	0	2012	UR		0			201
	852510	-Transmission apparatus									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	852510	--Transmission apparatus other than apparatus for radio-broadcasting or television	100	0	2012	UR		0	48		
ex	852510	--Set top boxes which have a communication function: a microprocessor-based device incorporating a modem for gaining access to the Internet, and having a function of interactive information exchange	100	0	2012	UR		0			203
	852520	-Transmission apparatus incorporating reception apparatus	100	0	2012	UR		0	49		197
	852540	-Still image video cameras and other video camera recorders									
ex	852540	--Digital still image video cameras	100	0	2012	UR		0	50		
	8527	Reception apparatus for radio-telephony, radio-telegraphy or radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.									
	852790	-Other apparatus									
ex	852790	--Portable receivers for calling, alerting or paging	100	0	2012	UR		0	51		
ex	852790	--Paging alert devices, and parts thereof	100	0	2012	UR		0			197
	8528	Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus; video monitors and video projectors.									
	85281	-Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus:									
	852812	--Colour									
ex	852812	---Set top boxes which have a communication function: a microprocessor-based device incorporating a modem for gaining access to the Internet, and having a function of interactive information exchange	100	0	2012	UR		0			203
	852830	-Video projectors									
ex	852830	-- Projection type flat panel display units used with automatic data processing machines which can display digital information generated by the central processing unit.	100	0	2012	UR		0			200
	8529	Parts suitable for use solely or principally with the apparatus of headings Nos. 85.25 to 85.28.									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	852910	-Aerials and aerial reflectors of all kinds; parts suitable for use therewith									
ex	852910	--Aerials or antennae of a kind used with apparatus for radio-telephony and radio-telegraphy	100	0	2012	UR		0	52		
ex	852910	--Paging alert devices, and parts thereof	100	0	2012	UR		0			197
	852990	-Other									
ex	852990	--Parts of: transmission apparatus other than apparatus for radio-broadcasting or television transmission apparatus incorporating reception apparatus digital still image video cameras, portable receivers for calling, alerting or paging	100	0	2012	UR		0	53		
ex	852990	--Paging alert devices, and parts thereof	100	0	2012	UR		0			197
ex	852990	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8531	Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading No. 85.12 or 85.30.									
	853120	-Indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED)	100	0	2012	UR		0	54		193
	853180	-Other apparatus									
ex	853180	--Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	100	0	2012	UR		0			193
ex	853180	--Paging alert devices, and parts thereof	100	0	2012	UR		0			197
	853190	-Parts									
ex	853190	--Parts of apparatus of subheading 8531 20	100	0	2012	UR		0	55		

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	853190	--Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	100	0	2012	UR		0			193
ex	853190	--Paging alert devices, and parts thereof	100	0	2012	UR		0			197
ex	853190	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8532	Electrical capacitors, fixed, variable or adjustable (pre-set).									
	853210	-Fixed capacitors designed for use in 50/60 Hz circuits and having a reactive power handling capacity of not less than 0.5 kvar (power capacitors)	100	0	2012	UR		0	56		
	85322	-Other fixed capacitors:									
	853221	--Tantalum	100	0	2012	UR		0	57		
	853222	--Aluminium electrolytic	100	0	2012	UR		0	58		
	853223	--Ceramic dielectric, single layer	100	0	2012	UR		0	59		
	853224	--Ceramic dielectric, multilayer	100	0	2012	UR		0	60		
	853225	--Dielectric of paper or plastics	100	0	2012	UR		0	61		
	853229	--Other	100	0	2012	UR		0	62		
	853230	-Variable or adjustable (pre-set) capacitors	100	0	2012	UR		0	63		
	853290	-Parts	100	0	2012	UR		0	64		
	8533	Electrical resistors (including rheostats and potentiometers), other than heating resistors.									
	853310	-Fixed carbon resistors, composition or film types	100	0	2012	UR		0	65		
	85332	-Other fixed resistors:									
	853321	--For a power handling capacity not exceeding 20 W	100	0	2012	UR		0	66		
	853329	--Other	100	0	2012	UR		0	67		
	85333	-Wirewound variable resistors, including rheostats and potentiometers:									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	853331	--For a power handling capacity not exceeding 20 W	100	0	2012	UR		0	68		
	853339	--Other	100	0	2012	UR		0	69		
	853340	-Other variable resistors, including rheostats and potentiometers	100	0	2012	UR		0	70		
	853390	-Parts	100	0	2012	UR		0	71		
	8534	Printed circuits.									
	853400	-Printed circuits	100	0	2012	UR		0	72		
	8536	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders, junction boxes), for a voltage not exceeding 1,000 volts.									
	853650	-Other switches									
ex	853650	--Electronic AC switches consisting of optically coupled input and output circuits (Insulated thyristor AC switches)	100	0	2012	UR		0	73		
ex	853650	--Electronic switches, including temperature protected electronic switches, consisting of a transistor and a logic chip (chip-on-chip technology) for a voltage not exceeding 1000 volts	100	0	2012	UR		0	74		
ex	853650	--Electromechanical snap-action switches for a current not exceeding 11 amps	100	0	2012	UR		0	75		
	85366	-Lamp-holders, plugs and sockets:									
	853669	--Other									
ex	853669	---Plugs and sockets for co-axial cables and printed circuits	100	0	2012	UR		0	76		
	853690	-Other apparatus									
ex	853690	--Connection and contact elements for wires and cables	100	0	2012	UR		0	77		
ex	853690	--Wafer probers	100	0	2012	UR		0		166	
	8538	Parts suitable for use solely or principally with the apparatus of heading No. 85.35, 85.36 or 85.37.									
	853890	-Other									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	853890	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8541	Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes; mounted piezo-electric crystals.									
	854110	-Diodes, other than photosensitive or light emitting diodes	100	0	2012	UR		0	78		
	85412	-Transistors, other than photosensitive transistors:									
	854121	--With a dissipation rate of less than 1 W	100	0	2012	UR		0	79		
	854129	--Other	100	0	2012	UR		0	80		
	854130	-Thyristors, diacs and triacs, other than photosensitive devices	100	0	2012	UR		0	81		
	854140	-Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light emitting diodes	100	0	2012	UR		0	82		
	854150	-Other semiconductor devices	100	0	2012	UR		0	83		
	854160	-Mounted piezo-electric crystals	100	0	2012	UR		0	84		
	854190	-Parts	100	0	2012	UR		0	85		
	8542	Electronic integrated circuits and microassemblies.									
	854210	--Cards incorporating an electronic integrated circuit ("smart" cards)	100	0	2012	UR		0	86, 90		
	85422	- Monolithic integrated circuits:									
ex	854221	--Metal oxide semiconductors (MOS technology)	100	0	2012	UR		0	87		
ex	854221	--Circuits obtained by bipolar technology	100	0	2012	UR		0	88		
ex	854221	--Other, including circuits obtained by a combination of bipolar and MOS technologies (BIMOS technology)	100	0	2012	UR		0	89		
	854229	--Other monolithic integrated circuits	100	0	2012	UR		0	90		
	854260	-Hybrid integrated circuits	100	0	2012	UR		0	91		
	854270	-Electronic microassemblies	100	0	2012	UR		0	92		

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	854290	-Parts	100	0	2012	UR		0	93		
	8543	Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this Chapter.									
	85431	-Particle accelerators:									
	854311	--Ion implanters for doping semiconductor materials	100	0	2012	UR		0		167	
	854330	-Machines and apparatus for electroplating, electrolysis or electrophoresis									
ex	854330	Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		142, 168	
	85438	-Other machines and apparatus:									
	854381	--Proximity cards and tags	100	0	2012	UR		0	94		
	854389	--Other									
ex	854389	---Electrical machines with translation or dictionary functions	100	0	2012	UR		0	95		
ex	854389	---Apparatus for physical deposition by sputtering on semiconductor wafers	100	0	2012	UR		0		141	
ex	854389	--- Physical deposition apparatus for semiconductor production	100	0	2012	UR		0		147	
ex	854389	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			193
	854390	-Parts									
ex	854390	-- Part of apparatus for physical deposition by sputtering on semiconductor wafers	100	0	2012	UR		0		149	
ex	854390	-- Parts of physical deposition apparatus for semiconductor production	100	0	2012	UR		0		158	
ex	854390	-- Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	100	0	2012	UR		0		153, 169	
ex	854390	--Parts of ion implanters for doping semiconductor materials	100	0	2012	UR		0		170	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	854390	--Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	100	0	2012	UR		0			193
ex	854390	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	8544	Insulated (including enamelled or anodised) wire, cable (including coaxial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors.									
	85444	-Other electric conductors, for a voltage not exceeding 80 V:									
	854441	--Fitted with connectors									
ex	854441	---Other electric conductors, for a voltage not exceeding 80 V, fitted with connectors, of a kind used for telecommunications	100	0	2012	UR		0	96		
	854449	--Other									
ex	854449	---Other electric conductors, for a voltage not exceeding 80 V, not fitted with connectors, of a kind used for telecommunications	100	0	2012	UR		0	97		
	85445	-Other electric conductors, for a voltage exceeding 80 V but not exceeding 1,000 V:									
	854451	--Fitted with connectors									
ex	854451	---Other electric conductors, for a voltage exceeding 80 V but not exceeding 1000 V, fitted with connectors, of a kind used for telecommunications	100	0	2012	UR		0	98		
	854470	-Optical fibre cables	100	0	2012	UR		0	99		
	9009	Photo-copying apparatus incorporating an optical system or of the contact type and thermo-copying apparatus.									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	90091	-Electrostatic photo-copying apparatus:									
	900911	--Operating by reproducing the original image directly onto the copy (direct process)	100	0	2012	UR		0	100		
	90092	-Other photo-copying apparatus:									
	900921	--Incorporating an optical system	100	0	2012	UR		0	101		
	90099	-Parts and accessories									
	900991	- - Automatic document feeders	100	0	2012	UR		0	102		199
	900992	- - Paper feeders	100	0	2012	UR		0	102		199
	900993	- - Sorters	100	0	2012	UR		0	102		199
	900999	- - Other	100	0	2012	UR		0	102		199
	9010	Apparatus and equipment for photographic (including cinematographic) laboratories (including apparatus for the projection or drawing of circuit patterns on sensitised semiconductor materials), not specified or included elsewhere in this Chapter; negatoscopes; projection screens.									
	90104	-Apparatus for the projection or drawing of circuit patterns on sensitised semiconductor materials:									
	901041	--Direct write-on-wafer apparatus	100	0	2012	UR		0		171	
	901042	--Step and repeat aligners	100	0	2012	UR		0		172	
	901049	--Other	100	0	2012	UR		0		173	
	901090	-Parts and accessories									
ex	901090	--Parts and accessories of the apparatus of Headings No 9010 41 to 9010 49	100	0	2012	UR		0		174	
	9011	Compound optical microscopes, including those for photomicrography, cinephotomicrography or microprojection.									
	901110	-Stereoscopic microscopes									
ex	901110	-- Optical stereoscopic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		175	
	901120	-Other microscopes, for photomicrography, cinephotomicrography or microprojection									
ex	901120	-- Photomicrographic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		176	
	901190	-Parts and accessories									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	901190	-- Parts and accessories of optical stereoscopic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		177	
ex	901190	-- Parts and accessories of photomicrographic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		178	
	9012	Microscopes other than optical microscopes; diffraction apparatus.									
	901210	-Microscopes other than optical microscopes and diffraction apparatus									
ex	901210	-- Electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		179	
	901290	-Parts and accessories									
ex	901290	-- Parts and accessories of electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		180	
	9013	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, other than laser diodes; other optical appliances and instruments, not specified or included elsewhere in this Chapter.									
	901380	-Other devices, appliances and instruments									
ex	901380	--Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	100	0	2012	UR		0			193
	901390	-Parts and accessories									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	901390	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
ex	901390	--Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	100	0	2012	UR		0			193
	9017	Drawing, marking-out or mathematical calculating instruments (for example, drafting machines, pantographs, protractors, drawing sets, slide rules, disc calculators); instruments for measuring length, for use in the hand (for example, measuring rods and tapes, micrometers, callipers), not specified or included elsewhere in this Chapter.									
	901710	-Drafting tables and machines, whether or not automatic									
ex	901710	--Plotters whether input or output units of HS heading No 8471 or drawing or drafting machines of HS heading No 9017.	100	0	2012	UR		0			198
	901720	-Other drawing, marking-out or mathematical calculating instruments									
ex	901720	--Pattern generating apparatus of a kind used for producing masks or reticles from photoresist coated substrates	100	0	2012	UR		0		181	
ex	901720	--Plotters whether input or output units of HS heading No 8471 or drawing or drafting machines of HS heading No 9017.	100	0	2012	UR		0			198
	901790	-Parts and accessories									
ex	901790	--Parts and accessories for pattern generating apparatus of a kind used for producing masks or reticles from photoresist coated substrates	100	0	2012	UR		0		182	
ex	901790	--Parts of such pattern generating apparatus	100	0	2012	UR		0		183	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	901790	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	9026	Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading No. 90.14, 90.15, 90.28									
	902610	-For measuring or checking the flow or level of liquids	100	0	2012	UR		0	103		
	902620	-For measuring or checking pressure	100	0	2012	UR		0	104		
	902680	-Other instruments or apparatus	100	0	2012	UR		0	105		
	902690	-Parts and accessories	100	0	2012	UR		0	106		199
	9027	Instruments and apparatus for physical or chemical analysis (for example, polarimeters, refractometers, spectrometers, gas or smoke analysis apparatus); instruments and apparatus for measuring or checking viscosity, porosity, expansion, surface tension or the like; instruments and apparatus for measuring of heat, sound or light (including exposure meters); microtomes.									
	902720	-Chromatographs and electrophoresis instruments	100	0	2012	UR		0	107		
	902730	-Spectrometers, spectrophotometers and spectrographs using optical radiations (UV, visible, IR)	100	0	2012	UR		0	108		
	902750	-Other instruments and apparatus using optical radiations (UV, visible, IR)	100	0	2012	UR		0	109		
	902780	-Other instruments and apparatus	100	0	2012	UR		0	110		
	902790	-Microtomes; parts and accessories									
ex	902790	--Parts and accessories of products of heading 9027, other than for gas or smoke analysis apparatus and microtomes	100	0	2012	UR		0	111		

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	902790	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	9030	Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading No. 90.28; instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionising radiations.									
	903040	-Other instruments and apparatus, specially designed for telecommunications (for example, cross-talk meters, gain measuring instruments, distortion factor meters, psophometers)	100	0	2012	UR		0	112		
	90308	-Other instruments and apparatus:									
	903082	--For measuring or checking semiconductor wafers or devices	100	0	2012	UR		0		184	
	903090	-Parts and accessories									
ex	903090	--Parts and accessories of instruments and apparatus for measuring or checking semiconductor wafers or devices	100	0	2012	UR		0		185	
ex	903090	--Parts of instruments and appliances for measuring or checking semiconductor wafers or devices	100	0	2012	UR		0		186	
ex	903090	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199
	9031	Measuring or checking instruments, appliances and machines, not specified or included elsewhere in this Chapter; profile projectors.									

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
	90314	-Other optical instruments and appliances:									
	903141	--For inspecting semiconductor wafers or devices or for inspecting photomasks or reticles used in manufacturing semiconductor devices	100	0	2012	UR		0		175, 176, 187	
ex	903149	--Other									
	903149	---Optical instruments and appliances for measuring surface particulate contamination on semiconductor wafers	100	0	2012	UR		0		188	
ex	903180	-Other instruments, appliances and machines									
	903180	--Electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		179	
ex	903190	-Parts and accessories									
	903190	--Parts and accessories of optical stereoscopic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		177	
ex	903190	--Parts and accessories of photomicrographic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		178	
ex	903190	--Parts and accessories of electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	100	0	2012	UR		0		180	
ex	903190	--Parts and accessories of optical instruments and appliances for inspecting semiconductor wafers or devices or for inspecting masks, photomasks or reticles used in manufacturing semiconductor devices	100	0	2012	UR		0		189	
ex	903190	--Parts and accessories of optical instruments and appliances for measuring surface particulate contamination on semiconductor wafers	100	0	2012	UR		0		190	

Ex	HS2002	Description of the products	Base rate	Bound rate	Implementation	Present concession established	INR	Other duties and charges	Attach A-Section 1	Attach A-Section 2	Attach B
ex	903190	--Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	100	0	2012	UR		0			199

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**Staging Matrix**

The reductions shall be implemented the 1st of January of the year indicated below.

<b>Ex</b>	<b>HS 2002</b>	<b>Base rate</b>	<b>2011</b>	<b>2012</b>
	381800	100	50	0
ex	701710	100	50	0
ex	702000	100	50	0
ex	841989	100	50	0
ex	841990	100	50	0
ex	842119	100	50	0
ex	842191	100	50	0
ex	842489	100	50	0
ex	842489	100	50	0
ex	842489	100	50	0
ex	842490	100	50	0
ex	842490	100	50	0
ex	842820	100	50	0
ex	842833	100	50	0
ex	842839	100	50	0
ex	842890	100	50	0
ex	843139	100	50	0
ex	845610	100	50	0
ex	845610	100	50	0
	845691	100	50	0
ex	845699	100	50	0
ex	845699	100	50	0
ex	845699	100	50	0
ex	846221	100	50	0
ex	846229	100	50	0
ex	846410	100	50	0
ex	846420	100	50	0
ex	846490	100	50	0
ex	846490	100	50	0
ex	846610	100	50	0
ex	846610	100	50	0
ex	846610	100	50	0
ex	846610	100	50	0
ex	846610	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846620	100	50	0
ex	846630	100	50	0
ex	846630	100	50	0
ex	846630	100	50	0
ex	846630	100	50	0
ex	846630	100	50	0



<b>Ex</b>	<b>HS 2002</b>	<b>Base rate</b>	<b>2011</b>	<b>2012</b>
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	847990	100	50	0
ex	848071	100	50	0
ex	850440	100	50	0
ex	850440	100	50	0
ex	850450	100	50	0
ex	850490	100	50	0
ex	851410	100	50	0
ex	851420	100	50	0
ex	851430	100	50	0
ex	851430	100	50	0
ex	851490	100	50	0
ex	851490	100	50	0
ex	851580	100	50	0
ex	851590	100	50	0
	851711	100	50	0
	851719	100	50	0
	851721	100	50	0
	851722	100	50	0
	851730	100	50	0
	851750	100	50	0
	851780	100	50	0
	851790	100	50	0
ex	851810	100	50	0
ex	851829	100	50	0
ex	851830	100	50	0
ex	851840	100	50	0
ex	851890	100	50	0
ex	851890	100	50	0
	852020	100	50	0
ex	852290	100	50	0
	852311	100	50	0
	852312	100	50	0
	852313	100	50	0
	852320	100	50	0
	852390	100	50	0
	852431	100	50	0
ex	852439	100	50	0
ex	852439	100	50	0
	852440	100	50	0
	852491	100	50	0
ex	852499	100	50	0
ex	852499	100	50	0
ex	852510	100	50	0
ex	852510	100	50	0

Ex	HS 2002	Base rate	2011	2012
	852520	100	50	0
ex	852540	100	50	0
ex	852790	100	50	0
ex	852790	100	50	0
ex	852812	100	50	0
ex	852830	100	50	0
ex	852910	100	50	0
ex	852910	100	50	0
ex	852990	100	50	0
ex	852990	100	50	0
ex	852990	100	50	0
	853120	100	50	0
ex	853180	100	50	0
ex	853180	100	50	0
ex	853190	100	50	0
ex	853190	100	50	0
ex	853190	100	50	0
ex	853190	100	50	0
	853210	100	50	0
	853221	100	50	0
	853222	100	50	0
	853223	100	50	0
	853224	100	50	0
	853225	100	50	0
	853229	100	50	0
	853230	100	50	0
	853290	100	50	0
	853310	100	50	0
	853321	100	50	0
	853329	100	50	0
	853331	100	50	0
	853339	100	50	0
	853340	100	50	0
	853390	100	50	0
	853400	100	50	0
ex	853650	100	50	0
ex	853650	100	50	0
ex	853650	100	50	0
ex	853669	100	50	0
ex	853690	100	50	0
ex	853690	100	50	0
ex	853890	100	50	0
	854110	100	50	0
	854121	100	50	0
	854129	100	50	0
	854130	100	50	0
	854140	100	50	0
	854150	100	50	0
	854160	100	50	0
	854190	100	50	0
	854210	100	50	0
ex	854221	100	50	0

<b>Ex</b>	<b>HS 2002</b>	<b>Base rate</b>	<b>2011</b>	<b>2012</b>
ex	854221	100	50	0
ex	854221	100	50	0
	854229	100	50	0
	854260	100	50	0
	854270	100	50	0
	854290	100	50	0
	854311	100	50	0
ex	854330	100	50	0
	854381	100	50	0
ex	854389	100	50	0
ex	854389	100	50	0
ex	854389	100	50	0
ex	854389	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854390	100	50	0
ex	854441	100	50	0
ex	854449	100	50	0
ex	854451	100	50	0
	854470	100	50	0
	900911	100	50	0
	900921	100	50	0
	900991	100	50	0
	900992	100	50	0
	900993	100	50	0
	900999	100	50	0
	901041	100	50	0
	901042	100	50	0
	901049	100	50	0
ex	901090	100	50	0
ex	901110	100	50	0
ex	901120	100	50	0
ex	901190	100	50	0
ex	901190	100	50	0
ex	901210	100	50	0
ex	901290	100	50	0
ex	901380	100	50	0
ex	901390	100	50	0
ex	901390	100	50	0
ex	901710	100	50	0
ex	901720	100	50	0
ex	901720	100	50	0
ex	901790	100	50	0
ex	901790	100	50	0
ex	901790	100	50	0
	902610	100	50	0
	902620	100	50	0
	902680	100	50	0
	902690	100	50	0

<b>Ex</b>	<b>HS 2002</b>	<b>Base rate</b>	<b>2011</b>	<b>2012</b>
	902720	100	50	0
	902730	100	50	0
	902750	100	50	0
	902780	100	50	0
ex	902790	100	50	0
ex	902790	100	50	0
	903040	100	50	0
	903082	100	50	0
ex	903090	100	50	0
ex	903090	100	50	0
ex	903090	100	50	0
	903141	100	50	0
ex	903149	100	50	0
ex	903180	100	50	0
ex	903190	100	50	0
ex	903190	100	50	0
ex	903190	100	50	0
ex	903190	100	50	0
ex	903190	100	50	0
ex	903190	100	50	0

**SCHEDULE CXIV - KUWAIT**  
**Agreement on Information Technology (ITA)**  
**Attachment B**

With respect to any product described in or for Attachment B to the Annex to the Ministerial Declaration on Trade in Information Technology Products (WT/MIN(96)/16), to the extent not specifically provided for in this Schedule, the customs duties on such product, as well any other duties and charges of any kind (within the meaning of Article II:1(b) of the General Agreement on Tariffs and Trade 1994), shall be bound and eliminated, as set forth in paragraph 2(a) of the Annex to the Declaration, wherever the product is classified.

Description	HS2002
Quartz reactor tubes and holders designed for insertion into diffusion and oxidation furnaces for production of semiconductor wafers	701710ex, 702000ex
Chemical vapor deposition apparatus for semiconductor production	841989ex, 847989ex
Parts of chemical vapor deposition apparatus for semiconductor production	841990ex, 847990ex
Apparatus for stripping or cleaning semiconductor wafers	845691, 845699ex
Lasercutters for cutting contacting tracks in semiconductor production by laser beam	845610ex, 845699ex
Machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	846410ex
Parts for machines for sawing monocrystal semiconductor boules into slices, or wafers into chips	846610ex, 846620ex, 846630ex, 846691ex
Parts of dicing machines for scribing or scoring semiconductor wafers	846610ex, 846620ex, 846630ex, 846691ex
Parts of lasercutters for cutting contacting tracks in semiconductor production by laser beam	846610ex, 846620ex, 846630ex, 846693ex
Parts of apparatus for stripping or cleaning semiconductor wafers	846620ex, 846630ex, 846693ex
Encapsulation equipment for assembly of semiconductors	847710ex, 847740ex, 847759ex, 847989ex
Parts of encapsulation equipment	847790ex
Automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	842820ex, 842833ex, 842839ex, 842890ex, 847950ex
Apparatus for physical deposition by sputtering on semiconductor wafers	847989ex, 854389ex
Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	842489ex, 846490ex, 847989ex, 854330ex
Die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	847989ex, 851580ex
Encapsulation equipment for assembly of semiconductors	847710ex, 847740ex, 847759ex, 847989ex
Machines for bending, folding and straightening semiconductor leads	846221ex, 846229ex, 847989ex
Physical deposition apparatus for semiconductor production	847989ex, 854389ex
Spinners for coating photographic emulsions on semiconductor wafers	847989ex
Part of apparatus for physical deposition by sputtering on semiconductor wafers	847990ex, 854390ex
Parts for die attach apparatus, tape automated bonders, and wire bonders for assembly of semiconductors	847990ex, 851590ex
Parts for spinners for coating photographic emulsions on semiconductor wafers	847990ex

Description	HS2002
Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	842490ex, 846620ex, 846630ex, 846691ex, 847990ex, 854390ex
Parts of automated machines for transport, handling and storage of semiconductor wafers, wafer cassettes, wafer boxes and other material for semiconductor devices	843139ex, 847990ex
Parts of encapsulation equipment for assembly of semiconductors	847790ex, 847990ex
Parts of machines for bending, folding and straightening semiconductor leads	846610ex, 846620ex, 846630ex, 846694ex, 847990ex
Parts of physical deposition apparatus for semiconductor production	847990ex, 854390ex
Apparatus for rapid heating of semiconductor wafers	851430ex
Parts of apparatus for rapid heating of wafers	851490ex
Wafer probers	853690ex
Apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	842489ex, 846490ex, 847989ex, 854330ex
Parts of apparatus for wet etching, developing, stripping or cleaning semiconductor wafers and flat panel displays	842490ex, 846620ex, 846630ex, 846691ex, 847990ex, 854390ex
Optical stereoscopic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	903141, 901110ex
Photomicrographic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	903141, 901120ex
Parts and accessories of optical stereoscopic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	901190ex, 903190ex
Parts and accessories of photomicrographic microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	901190ex, 903190ex
Electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	901210ex, 903180ex
Parts and accessories of electron beam microscopes fitted with equipment specifically designed for the handling and transport of semiconductor wafers or reticles	901290ex, 903190ex
Pattern generating apparatus of a kind used for producing masks or reticles from photoresist coated substrates	901720ex
Parts and accessories for pattern generating apparatus of a kind used for producing masks or reticles from photoresist coated substrates	901790ex
Parts of such pattern generating apparatus	901790ex

Description	HS2002
Computers: automatic data processing machines capable of 1) storing the processing program or programs and at least the data immediately necessary for the execution of the program; 2) being freely programmed in accordance with the requirements of the user ; 3) performing arithmetical computations specified by the user; and 4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run. The agreement covers such automatic data processing machines whether or not they are able to receive and process with the assistance of central processing unit telephony signals, television signals, or other analogue or digitally processed audio or video signals. Machines performing a specific function other than data processing, or incorporating or working in conjunction with an automatic data processing machine, and not otherwise specified under Attachment A or B, are not covered by this agreement.	847110, 847130, 847141, 847149, 847150
Electric amplifiers when used as repeaters in line telephony products falling within the Information Technology Agreement (ITA), and parts thereof	851840ex, 851890ex
Flat panel display devices (including LCD, Electro Luminescence, Plasma, Vacuum-Fluorescence and other technologies) for products falling within the Information Technology Agreement (ITA), and parts thereof.	847149, 847160, 847330, 853120, 853180ex, 853190ex, 854389ex, 854390ex, 901380ex, 901390ex
Network equipment: Local Area Network (LAN) and Wide Area Network (WAN) apparatus, including 847180,847149 those products dedicated for use solely or principally to permit the interconnection of automatic data processing machines and units thereof for a network that is used primarily for the sharing of resources such as central processor units, data storage devices and input or output units - including adapters, hubs, in-line repeaters, converters, concentrators, bridges and routers, and printed circuit assemblies for physical incorporation into automatic data processing machines and units thereof.	847149, 847180, 851750
Monitors : display units of automatic data processing machines with a cathode ray tube with a dot screen pitch smaller than 0,4 mm not capable of receiving and processing television signals or other analogue or digitally processed audio or video signals without assistance of a central processing unit of a computer as defined in this agreement. The agreement does not, therefore, cover televisions, including high definition televisions.	847149, 847160
Optical disc storage units, for automatic data processing machines (including CD drives and DVD-drives), whether or not having the capability of writing/recording as well as reading, whether or not in their own housings.	847149, 847170
Paging alert devices, and parts thereof.	852520, 852790ex, 852910ex, 852990ex, 853180ex, 853190ex
Plotters whether input or output units of HS heading No 8471 or drawing or drafting machines of HS heading No 9017.	847149, 847160, 901710ex, 901720ex
Printed Circuit Assemblies for products falling within the Information Technology Agreement (ITA), including such assemblies for external connections such as cards that conform to the PCMCIA standard. Such printed circuit assemblies consist of one or more printed circuits of heading 8534 with one or more active elements" means diodes, transistors, and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and micro assemblies of heading 8542.	847149, 847150, 847310ex, 847321, 847329, 847330, 847340ex, 847350, 850440ex, 850490ex, 851750, 851790, 851890ex, 852020, 852290ex, 852990ex, 853190ex, 853890ex, 854390ex, 900991, 900992, 900993, 900999, 901390ex, 901790ex, 902690, 902790ex, 903090ex, 903190ex
Projection type flat panel display units used with automatic data processing machines which can display digital information generated by the central processing unit	847149, 847160, 852830
Proprietary format storage devices including media therefor for automatic data processing machines, with or without removable media and whether magnetic, optical or other technology, including Bernoulli Box, Syquest, or Zipdrive cartridge storage units.	847149, 847170, 852320, 852390, 852431, 852491, 852439ex, 852499ex

Description	HS2002
Multimedia upgrade kits for automatic data processing machines, and units thereof, put up for retail sale, consisting of, at least, speakers and/or microphones as well as a printed circuit assembly that enables the ADP machines and units thereof to process audio signals (sound cards).	847330, 851750
Set top boxes which have a communication function: a microprocessor-based device incorporating a modem for gaining access to the Internet, and having a function of interactive information exchange	851750, 852510ex, 852812ex