

Name of work: Construction of Truck Parking including Providing RCC box culvert & street lights at SIPCOT Industrial Park, Cheyyar.

EMD: Rs. 1,34,600/- Tender Date: 05.08.2022.

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
A) C	onstruction of trucl	k Parking				
1	·	Clearing the light jungle in the OSR area and removing the same from the site as directed by the SIPCOT Officers.			1 Sqm (One Square metre)	
2	8425.00 cum (Eight Thousand four hundred and twenty five cubic metre)	Forming embankment by conveying earth from borrowed area outside the Industrial Park with a lead of 10km having CBR value not less then 8% which has to compacted properly and form a stable embankment including cost, loading and unloading and labour for proper setting out, stripping and storing the top soil, if necessary compacting the original ground by vibratory roller to have a relative compaction of required proctor density, spreading the materials uniformly over the entire width of embankment in layers of not exceeding 200 mm compacted thickness, breaking clods, watering with all leads for water, compacting to 97% proctor density for the soil below the top of 0.5 meter height of sub grade under optimum moisture content with moisture content adjusted in the range of one per cent (1%) above and two percent (2%) below the optimum moisture content determined as per IS. 2720 (Part VII) with power roller rolling and other construction equipments approved by engineer-in-charge and finishing the embankment at 97% proctor density including compaction to specified requirement, working in narrow width of embankment including hire and fuel charges for all tools and plants and all other incidental charges etc. Complete as per MORTH standard specification.			1 Cum (One Cubic metre)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
3	910.00 Cum (Nine hundred and ten cubic metre)	Supplying and filling of stone dust in layers of not more than 10 cm thick well watered, rammed and consolidated etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
4	20.00 Cum (Twenty cubic metre)	Plain Cement Concrete 1:4:8 (One cement, Four M.sand and Eight aggregate) using 40mm size Hard broken granite stone jelly for foundation, flooring bed, dummy columns, mudmat below column footings, Grade beams etc. laid in layers not exceeding 15cm thick including cost and conveyance of all materials and labour to work site, mixing of concrete, laying, compacting, curing with all leads for soft potable water, hire and fuel charges for all tools and plants including all other incidental charges such as bailing out water for forming protective bunds, coffer dams and shoring, strutting etc. complete complying with standard specifications and as directed by "SIPCOT" Officers.			1 Cum (One Cubic metre)	
5		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29m height as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc., complete complying with standard specification and as directed by the SIPCOT officers. Plane surface			1 Sqm (One Square metre)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
6	60.00 Cum (Sixty cubic metre)	Reinforced Cement Concrete 1: 1 1/2: 3 (one cement, one and a half M.sand and three jelly) using machine crushed 20mm size hard broken granite ISS stone jelly for all "REINFORCED CEMENT CONCRETE WORKS" including cost and conveyance of all material and labour to work site excluding cost of centering, shuttering, strutting and cost of MS/ RTS Reinforcement grills placed in position but including machine mixing of concrete, laying, vibrating with mechanical vibrators, finishing, curing including cost of soft potable water treatment of bearing (i.e) Junction of walls /beams and slabs) smooth with cement mortar 1:3 (one cement three M.sand) and kraft paper laid over it with out claim for extra and all labours charges for mixing concrete, laying, vibrating charges, hire charges for all tools and plants and all other incidental charges etc,. and providing weap holes at 1m interval including cost of PVC pipes if required etc., complete complying with standard specification and as directed by SIPCOT officers.			1 Cum (One Cubic metre)	
7	30.00 Qtl (Thirty quintal)	Supplying, Fabricating and placing in position steel reinforcement grills using M.S. / R.T.S.rods of all sizes of reinforcement for all Reinforced cement concrete works (for pedestal pillar concrete) including cost and conveyance of steel, binding wire, spacer bars spacer bars, cover blocks, labour charges for unbending of rods, straightening cutting, fabricating, tying, lifting, placing in position, overlaping to the required length whereever necessary cover blocks and all other incidental charges etc. complete complying with standard specifications and as directed by "SIPCOT" officers. (The steel rods must be Fe 415 grade of any brand with ISI marking and necessary test certicate to be produced before using it at site)			1 Qtl (One Quintal)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
8	(One Thousand eight hundred and	Construction of Granular Sub - Base (GSB) to the required compacted thickness (Drainage layer) by providing approved Coarse graded material conforming to Grading- V of Table 400 - 1 and satisfying the physical requirement for material for GSB as per Table 400 - 2 of MORTH Rev5 including screening, spreading in uniform layers with motor grader on prepared surface, watering and premixing by mix in place method with rotavator at OMC, and compacting with Vibratory roller 80 to 100 KN static weight to achieve the desired density and fine dressing to required grade and cross slope as directed by the SIPCOT officers etc., complete including obtaining and transporting all materials from approved quarry site to work site with all lift and lead by mechanical transport, head load or any other mode of transporation including cost and conveyance of all materials, labour charges,hire charges and fuel charges for loader, water tanker with sprinkler,motor grader, vibratory road rollers and all other equipments, tools and plants, safety measures, testing required including all other incidental charges, etc., complete as per the standard specification as per clause 401 of MORTH Rev5 etc., complete complying with standard specification and as directed by SIPCOT officers.			1 Cum (One Cubic metre)	
9	and eighty square	Supplying and laying of 83mm thick rubber moulded Hydralic pressed paver block interlocking over a M-sand cussion and pointed with mice m-sand with required design meeting their international standard size with Zig Zag design with higher loading capacity rate including cost and conveyance of all required materials at site and all labour charges for laying, compacting with paver vibrator etc., complete complying with standard specification and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
10	1 No	Supply, delivery and installation of rest room container size of 20 \times 8			1 No	
	(One Number)	x 8.6 feet with the arrangements for following specification.			(One Number)	
		Specification for rest room container				
		Fabricated works				
		Doors: 7' x 3'. Safety doors 5 Nos				
		Interior works 35 mm x 35 mm wooden frame				
		40 mm thick THERMOCOL insulation				
		6mm PVC paneling				
		FLOOR: 1' x 1' tiles for anti - skid ELECTRICAL POINTS & WORKS				
		LED light 18 watts - 5 Nos & Exhaust fan - 5 Nos Outer side BULK HEAD fitting - 3 Nos DB Box & 40 amps 4 pole isolator				
		PAINTING WORKS:				
		Each rest room accessories :-				
		Western closet with faucet - 2 Nos				
		Wash Basin - 2 Nos				
		Tap - 5 Nos & Shower 3 Nos				
		Ventilator for top of the door and soak pit				

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
11		Supply, delivery and installation of container size of 20 x 8 x 8.6 feet (Drivers stay room) & Security container size of 8 x 6 x 8.6 feet with interior arragements for following specification. Specification for SITE Office Fabricated works Doors: 7' x 3' metal outside open door with rain cutter 1 No. Window: 3' x 2' windows & Safety doors & grill with rain cutter - 3 Nos. INTERIOR WORKS 35mm x 35mm wooden frames 40mm thick THERMOCOL insulation 6mm MDF paneling FLOOR: VINYL matt. 0.8 mm thickness ALUMINIUM FABRICATED WORKS: Door: 7' x 3' ALUMINIUM sliding 3 Nos ELECTRICAL POINTS & WORKS LED tube light - 4 Nos A/C provision - 1 No (split a/c) with metal coat socket & top with MCB Fan point: 2 Nos, Computer points 3 Nos (One socket, one switch modular type) Outer side BULK HEAD fitting - 1 No DB box & 40 amps 4 pole ISOLATOR - 1 No Painting works, etc., complete complying with standard specification and as directed by SIPCOT Officers.				
	1 No	Office room			1 No	
а	(One Number)				(One Number)	
b	1 No (One Number)	Security room			1 No (One Number)	
		Section "A"- 11 items (Eleven items only)		Sub Total		

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
B.)C	onstruction of RCC	box Approach Culvert to Truck Parking.				
1	55.00 cum (Fifty five cubic metre)	Earthwork excavation for foundation in all soils and sub-soils and to full depth as may be directed except in Rock requiring blasting but inclusive of shoring, strutting and baling out water wherever necessary and refilling the sides of foundation with excavated earth (other than sand) in layers of 15cm thick, well rammed and consolidated and depositing the surplus earth if any, within the compound in places shown by the "SIPCOT" officers with all leads and lifts etc. complete complying with standard specifications and as directed by SIPCOT officers.			1 Cum (One Cubic metre)	
2	4.00 cum (Four cubic metre)	Supplying and filling of stone dust in layers of not more than 10 cm thick well watered, rammed and consolidated etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
3	6.00 cum (Six cubic metre)	Plain Cement Concrete 1:4:8 (One cement, Four M.sand and eight aggregate) using 40mm size Hard broken granite stone jelly for foundation, flooring bed, dummy columns, mudmat below column footings, Grade beams etc. laid in layers not exceeding 15cm thick including cost and conveyance of all materials and labour to work site, mixing of concrete, laying, compacting, curing with all leads for soft potable water, hire and fuel charges for all tools and plants including all other incidental charges such as bailing out water for forming protective bunds, coffer dams and shoring, strutting etc. complete complying with standard specifications and as directed by "SIPCOT" officers.			1 Cum (One Cubic metre)	
4		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29m height as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc., complete complying with standard specification and as directed by the SIPCOT officers.				

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
а	120.00 sqm (One hundred and twenty square metre)	Vertical surface			1 Sqm (One Square metre)	
b	32.00 sqm (Thirty two square metre)	Plane surface			1 Sqm (One Square metre)	
5	37.00 cum (Thirty Seven cubic metre)	Reinforced Cement Concrete 1: 1 1/2: 3 (one cement, one and a half M.sand and three jelly) using machine crushed 20mm size hard broken granite ISS stone jelly for all "REINFORCED CEMENT CONCRETE WORKS" including cost and conveyance of all material and labour to work site excluding cost of centering, shuttering, strutting and cost of MS/ RTS Reinforcement grills placed in position but including machine mixing of concrete, laying, vibrating with mechanical vibrators, finishing, curing including cost of soft potable water treatment of bearing (i.e) Junction of walls /beams and slabs) smooth with cement mortar 1:3 (one cement three M.sand) and kraft paper laid over it with out claim for extra and all labours charges for mixing concrete, laying, vibrating charges, hire charges for all tools and plants and all other incidental charges etc,. and providing weap holes at 1m interval including cost of PVC pipes if required etc., complete complying with standard specification and as directed by SIPCOT officers. For foundation & basement			1 Cum (One Cubic metre)	
6	41.00 Qtl (Forty one quintal)	Supply, fabricating and placing in position mild steel or ribbed tor steel bars high strength deformed bars like RTS bars for reinforcement for all reinforced cement concrete works including cost and conveyance of steel, binding wire to work site, cost of fabrication, labour charges for cleaning the rods, straightening, cutting, bending, tying grills, hoisting and placing the reinforcement in position before concreting, cost of binding wire, provision of space bars, cover blocks and all other incidental charges etc., complete complying with standard specification and as directed by SIPCOT			1 Qtl (One Quintal)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
7	12.00 Rm (Twelve Running metre)	Supply and fixing of PVC pipe 65 mm dia including cost of materials and labour charges for fixing etc complete complying with standard specification and as directed by SIPCOT Officers.			1 Rm (One running metre)	
8	•	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first quality of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specifications and as directed by SIPCOT Officers			1 Sqm (One Square metre)	
		Section "B"- 8 items (Eight items only)		Sub Total		

CONTRACTOR

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
C.)P	roviding Street ligh	nt system				
1		Supply, delivery and erection of 10 metre height Hot Dip Galvanized Octogonal Poles with 150 mm bottom A/F & 70 mm top A/F made upto of 3 mm thick HT sheet along with base plate of size 300mm x 300mm x 16 mm along with 1000 mm long Double/Single arm braket made up of 40 NB GI Pipe, Backeite sheet connectors for fixing of street light fittings including 4 Numbers of M20 mm dia. MS " J "bolts of size 750 mm long top - EN8 grade foundation bolts along with Template for the above poles & Terminals suitable for the same etc., complete complying with standard specifications and as directed by SIPCOT Officers.				
а	15 Nos (Fifteen numbers)	For Single collar pole:			1 No (One number)	
2	15 Nos (Fifteen numbers)	Supply, installation, testing and commissioning of 90 W LED street lights. Housing made of die cast aluminium with silver/grey powder coated, diffuser should be clear heat resistance toughened glass and IK08 with IP66 protection, system efficiency should be >100 LM/W, system having 5KVA surge, operating voltage range of 120V - 270 V AC and frequency 50 HZ, power factor, 0.95,THD < 10%, LED chip should be high power and each LED should be > 2Watts, each LED with induvidual lens, LED life 50000 burning hours as per L70, CCT Range 5000K-6000K, CRI>70 and make of LED CREE/OSRAM/NICHIA and driver should be potted type Constant current LED driver with 4KV Inbuilt Surge, Driver Efficiency >85%, driver having high voltage, short circuit protection and driver should be with BIS certified with R number. The fixture shall be conforming to latest indian standards or international standards. LEDs comply to the photo biological safety standards as per IEC62471 and RoHS. etc., complete complying with standard specification and as directed by SIPCOT Officers. The fixtures shall be outdoor type. LM79 report from NABL Accredited Lab and LM80 Report from LED chip Manufacture to be submitted etc., complete complying with standard specification and as directed by SIPCOT Officers.			1 No (One number)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
3		Providing foundation arrangements to the street light poles				
		as per following specifications.				
а	20.00 cum	Earth work excavation for foundation of street light poles in all			1 Cum	
	(Tweny cubic	classes of soils cotton soil such as hard stiff clay, stiff black hard			(One Cubic	
	metre)	red earth, shales, murram, gravel, stoney earth and earth mixed			metre)	
		with small size boulders etc. except hard rock requiring blasting as				
		per SS 20-B (HGS SS.20.B.) and depositing the same to the low				
		lying area /median, foot path portion(only good earth to be				
		deposited in median and foot path portion for the required quantity)				
		as directed by Engineer in charge with initial lead of 10m and lift of				
		2m etc. complete as per standard specification and as directed by				
		the SIPCOT officers.				
b	2.00 cum	Providing Plain Cement Concrete 1:4:8 (One cement, four sand and			1 Cum	
	(Two cubic metre)	eight Jelly) using 40mm size Hard broken granite stone jelly for			(One Cubic	
		foundation concrete of street light poles and High mast light poles,			metre)	
		etc. laid in layers not exceeding 15cm thick including dewatering				
		wherever necessary well rammed, consolidated etc. complete				
		complying including cost and conveyance of all materials and labour				
		to work site, mixing, laying, compacting (Curing with all leads of				
		soft potable water with standard specifications and as directed by				
		"SIPCOT" officers. (in all heights and all depths)				
С		Supplying and erecting form work for steel centering for sides and				
		soffits including supports and strutting upto a height of 3.90m in all				
		floors for RCC street light pedestal concrete pillars etc., with all				
		cross bracings using mild steel BG 10 sheets of required size stiffened with welded mild steel angles of size 25mm x 25mm x 3mm				
		laid over silver oak (country wood) joists of size 10cm x 6.5cm at				
		required spacing and supported by casurina props of 10 cm to 13cm				
		dia at required spacing etc., Complete complying with standard				
		specification and as directed by SIPCOT Officers.				
i	20.00 sqm	Plane surface			1 Sqm	
	(Twenty square				One Square	
	metre)				metre)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
ii	50.00 sqm (Fifty square metre)	Vertical surface			1 Sqm (One Square	
	, , ,				metre)	
d	(Thirteen cubic metre)	Providing Reinforced Cement Concrete 1: 1 1/2: 3 (One cement, One and a half sand and three jelly) for pedestal concrete using Machine crushed 20mm size Hard Broken granite ISS stone Jelly for all "REINFORCED CEMENT CONCRETE WORKS" including cost and conveyance of all materials and labour to work site excluding cost of centering, shuttering, strutting and cost of MS / RTS Reinforcement grills placed in position but including machine mixing of concrete, laying, vibrating with mechanical vibrators, finishing, curing, including cost of soft potable water treatment of bearing, smooth with cement mortar 1:3 (One cement and Three sand) and kraft paper laid over it without claim for extra and and all labour charges for mixing concrete, laying, curing, vibrating charges, hire charges for all tools and plants and all other incidental charges etc. as directed by SIPCOT officers etc. complete complying with standard			1 Cum (One Cubic metre)	
е	5.00 Qtl (Five quintal)	specifications and as directed by "SIPCOT" officers. Supplying, Fabricating and placing in position steel reinforcement grills using M.S. / R.T.S. rods of all sizes of reinforcement for all Reinforced cement concrete works (for pedestal pillar concrete) including cost and conveyance of steel, binding wire, spacer bars, cover blocks, labour charges for unbending of rods, straighteing, cutting, fabricating, tying, lifting, placing in position, overlaping to the required length whereever necessary cover blocks and all other incidental charges etc. complete complying with standard specifications and as directed by "SIPCOT" officers. (The steel rods must be Fe 415 grade of any brand with ISI marking and necessary test certicate to be produced before using it at site)			1 Qtl (One Quintal)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
4	1 No (One Number)	Fabrication, supply, installation, of out door street lighting service pillar box of 900mm x 900mmx 300mm size made by 16 SWG sheet steel metal fitted with required size of wooden plank board, 1 No. 100 Amps main switch, 3 Nos. of 100A fuse unit, suitable copper bus bars for neutral line, etc., complete. The pillar box fabricated with front double door arrangements with locking facility painted with one coat of primer and 2 coats of aluminium finish. The pillar to be erected with suitable angle iron frame pedestal with concrete grouting including cost and conveyance of all materials and labour etc., complete complying with standard specification and as directed by SIPCOT Officers.			1 No (One Number)	
5	1 No (One Number)	Fabrication, supply and installation of out door distribution pillar box of size 1250 mm x 900 mm x 300 mm made out of 16 SWG MS sheet steel with lockable door, with 1 No. 100 A TPN rewirable fuse switch and 32 A 4 way fuse DB with 12 Nos. 63A porcelain fuse cutouts with 1No. copper earth link and neutral link and 1 No. of 63 A TP Contactor with 230 V Coil and 1 No. of 24 Hours Timer of L & T make or equivalent with its control wiring, power interconnection with 7/16 copper wire from main switch to contactor and contactor to fuse DB etc., complete. The pillar painted with one coat of redoxide and 2 coats of aluminium finish as required by TNEB etc., The pillar to be installed in angle iron frame pedestal with concrete grouting including cost and conveyance of all materials and labour etc., complete complying with standard specification and as directed by SIPCOT Officers.			1 No (One Number)	

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
6	155.00 Rm	Supply and laying of 3 1/2 x 50 sq.mm PVC armoured LTUG cable			1 Rm	
	(One hundred and	with ISI mark in a trench to be excavated at a depth of 1m, putting			(One Running	
	fifty five Running Metre)	0.30 m layer of quarry dust and covering three sides of the cable			Metre)	
		with bricks completely and refilling the earth to make good and as				
		per standard specification. The price shall be inclusive of all end				
		termination, aluminium conductor, jointing as required at the site				
		with necessary jointing materials, charges for transportation,				
		stretching and laying of the cable, earth work excavation, cost and				
		conveyance and providing quarry dust, bricks, refilling of earth to				
		make good etc., complete. Necessary cable brackets shall also be				
		taken into account for the cables to be brought into the feeder pillars				
		and lighting cubicle as per ISI 1554 (Pt.I) etc.complete and as				
	630 00 D	directed by the SIPCOT Officials.			1 D	
7	620.00 Rm (One hundred and	Supply and laying of 4 x 16 sq.mm PVC armoured LTUG cable with			1 Rm (One Running	
	fifty five Running Metre)	ISI mark in a trench to be excavated/ in the median / foot path			Metre)	
		portion at a depth of 1m, putting 0.30 m layer of quarry dust and			rictic)	
		covering three sides of the cable with bricks completely and refilling				
		the earth to make good and as per standard specification. The price				
		shall be inclusive of all end termination, aluminium conductor,				
		jointing as required at the site with necessary jointing materials,				
		charges for transportation, stretching and laying of the cable, earth				
		work excavation, cost and conveyance and providing quarry dust,				
		bricks, refilling of earth to make good etc., complete. Necessary				
		cable brackets shall also be taken into account for the cables to be				
		brought into the feeder pillars and lighting cubicle as per ISI 1554				
		(Pt.I) etc.complete and as directed by the SIPCOT Officials.				
8	190.00 Rm	Supply, laying and testing of 2 core x 1.50 sq.mm PVC insulated SC			1 Rm	
	(One hundred and	unsheathed Cu.cable conductor cable of 1100 V grade with			(One Running	
	ninety Running Metre)	necessary jointing materials etc., complete including cost and conveyance of cable and labour charges for laying the cable etc.			Metre)	
	inetie)	complete complying with standard specification and as directed by				
		SIPCOT Officers.				

SE

SI.N o.	Aproximate Quantity	Description of Item	TNPB No.	Rate both in Figure and in words	unit	Amount
	2	3	4	5	6	7
9	(Six Numbers)	Earthing as per ISI specification with an earth elctrode of 2.5 m class "B" GI Pipe of dia not less than 40 mm with copper earth plate of size 125 mm x 50 mm x 6 mm with necessary funneling arrangements with necessary masonry work and with 38 mm RCC cover slab for the brick masonry with appropriate specification / standards and as directed by SIPCOT Officers.			1 No (One Number)	
		Section "C"- 9 items (Nine items only)		Sub Total		

CONTRACTOR