

List of Major items procured on LTE basis in Nalco

SL No	Sulphuric Acid: SULPHURIC ACID TECHNICAL GRADE SULPHURIC ACID AS PER IS: 266/1993 (REAFFIRMED 2003 WITH AMENDMENT-1)HAVING THE SPECIFICATIONS AS MENTIONED BELOW: 1. TOTAL ACIDITY (AS H2SO4): 98% MIN BY MASS. 2. RESIDUE ON IGINION :0.2%(MAX)BY MASS.	Annual Requirement (Approx) 700 MT	Alumina Refinery, Nalco, Damanjodi
	3. IRON(AS Fe): 0.05%(MAX) BY MASS. 4. HEAVY METALS (AS LEAD):0.005 %(MAX) BY MASS. 5. ARSENIC (AS AS):0.004 %(MAX) BY MASS.		
2	Coal Mill Liners: CYLINDERICAL LINER(HIGH CHROME)AS PER DRG NALCO/MECH/SPP/3301 SHEET 1 TO 5 MUST HAVE FOLLOWING CHEMICAL COMPOSITION AND PHYSICAL PROPERTIES: C-2.4-2.8%;CR-22.0-28.0%;MN-1.5% MAX NI-0.5%MAX;MO-0.6%MAX HARDNESS-57-62 RC RETAINED AUSTENITE:MAX 5% PRIMARY CARBIDES IN MARTENISTIC MATRIX.	288 Nos	Alumina Refinery, Nalco, Damanjodi
3	MS ERW Steel Pipe: Size: 350 NB Thickness of Pipe: 9.5 mm thick (minimum) Confirming to IS with Gr.: IS:3589, Gr. Fe 410 End Connection: Bevelled End Working Pressure: 26 Kg/sq cm(g) Test Pressure: Pipe shall be tested hydraulically as per relevant Standard at twice the working pressure. Required pipe length for each pipe segment: 10 to 12 M (preferably).	7000 to 8000 Mtr	Captive power Plant, Nalco, Angul
4	POLY ALUMINIUM CHLORIDE (LIOUID) OF HIGH BASICITY USED FOR TREATMENT OF RAW WATER CONFIRMING TO IS: 15573:2005 OR LATEST REVISION	600 MT	Captive power Plant, Nalco, Angul
5	TYPICAL CHEMICAL ANALYSIS AS PER FOLLOWING: BORIC OXIDE(B2O3): 56.22% WATER(H2O): 43.58% CHLORIDE(CL): 0.01% SULPHATE(SO4): 0.1% IRON(Fe): 0.005% ASSAY(H3BO3): 99.5% MINIMUM	100000 KG	Smelter Plant, Nalco, Angul



SL No	Items	Annual Requirement	Plant
		(Approx)	
6	THERMOCOUPLE N TYPE 211 D X 270 D X L 1120 MM ELEMENT: MINERAL INSULATED THERMOCOUPLE TYPE N, NICROBELL D SEATH MATERIAL, SEATH DIA 8 MM OD INTERNAL SEATH: CERAMIC KER 710 PROTECTING TUBE- 17 OD X 13 ID MM CLOSED AT BOTTOM END EXTERNAL SEATH: SEAMLESS / EXTRUDED PROTECTION TUBE (THERMO WELL KANTHAL APM 26.67 MM OD X 20.93 MM ID CLOSED AT BOTTOM END) DIE CAST ALUMINIUM HEAD (TYPE A) WITH CERAMIC BLOCK SPECIAL CABLE ENTRY GLAND EXTENSION WIRE AS SILICON RUBBER INSULATION / FIBRE GLASS JACKET WITH SS OVER BRAIDING OVERALL (3 MTR LONG) WITH JAB IN MALE FEMALE CONNECTOR THE THERMO COUPLE SHALL BE SIMPLEX, UNDERGROUND LENGTH BELOW TERMINAL BLOCK: 1110 MM COMPLETE WITH TERMINAL BLOCK AND TERMINALS. THE ABOVE MATERIAL MUST BE SUITABLE TO WITHSTAND A MAX TEMP OF 1300 DEG CENTIGRADE FOR SHORT	(Approx) 300 Nos	Smelter Plant, Nalco, Angul
1			
	DURATION AND CONTINUOUS TEMP OF 1160 DEG CENTIGRADE IN CARBURISING SULPHUROUS ATMOSPHERE OR OTHER REDUCING ADVERSE CONDITION OF OUR FURNACE		
7	ALUM {NON-FERRIC}	720 MT	Smelter
	TECHNICAL GRADE CONFORMING TO IS: 260/2001 OF LATEST REVISION (SUPPLIED IN 500GM TO 3KG PIECES PACKED IN 40KG NEW HDPE BAG. DEVIATION IN PRODUCT PURITY WOULD BE ACCEPTED WITH PRORATA DEDUCTION WHICH IS AS FOLLOWS:		Plant, Nalco, Angul
	i. ALUMINA CONTENT BELOW 17% UP TO 15% WILL BE ACCEPTABLE WITH PRORATA PRICE DEDUCTION FOR EVERY 0.1% VARIATION @ 0.6% ON LANDED COST. BEYOND THIS RELAXATION, THE MATERIAL SHALL BE OUTRIGHTLY REJECTED.		
	ii. PH VALUE OF 5% SOLUTION UP TO 2.8 (MIN.) WITH PENALTY FOR EVERY 0.1% VARIATION @ 0.2% ON THE LANDED COST.		
	iii. INSOLUBLE MATTER UP TO 0.3% (MAX.) WITH PENALTY FOR EVERY 0.01% VARIATION @ 0.05% ON THE LANDED COST.		
	iv. IRON CONTENT UP TO 0.01% (MAX.) WITH PENALTY FOR EVERY 0.001% VARIATION @ 1% ON THE LANDED COST.		



SL No	Items	Annual Requirement (Approx)	Plant
8	HEAT TREATED STEEL SHOTS, GRADE: SS-1400 & AS PER IS-4606 OF 1983 (AS AMENDED UPTO- DATE) SIZE:- 2.00MM - ALL PASS. 1.40MM-85% MIN. ETAIN, 1.18MM-12% MAX. RETAIN PAN-3% MAX.RETAIN NOTE: Chemical Composition: Carbon-0.6 to 1.25% Manganese-1.25% max. Silicon-0.2 to 1.1% Sulphur-0.08% Max. Phosphorous-0.08% Max. Phosphorous-0.08% Max. Hardness-400-550HV Packing- Steel Shots shall be packed in double line bag each weighing 25KG.	360 MT	Smelter Plant, Nalco, Angul
9	Flue wall Bricks for ABF I Consisting following item: 1. 42-44% AL2O3 REFRACTORY BRICKS WITH IDENTIFICATION MARK ' A- 229' 2. A-182 43% Al2O3 BRICK. MARK: A - 182.DRG.NO:NAL/05/ABF/FW/BS/126. 3. 42-44% AL2O3 REFRACTORY BRICK WITH IDENTIFICATION MARK ' A- 277' 4. TextB1-460 BRICKS 43% Al2O3 BRICK. MARK:B1-460 .DRG. NO: NAL/05/ABF/FW/BS/124. 5. B2-46043% Al2O3 BRICK. MARK: B2-460. DRG.NO:NAL/05/ABF/FW/BS/125. 6. REFRACTORY BRICKS MARK T-260.5.DRG.NO:NAL/05/ABF/FW/BS/118 7. ABF MORTAR.	240 sets	Smelter Plant, Nalco, Angul
10	Flue wall Bricks for ABF II & III Consisting following item: 1. DENSE REFRACTORY BRICKS, TYPE-K1 FOR ABF-II & III. 2. DENSE REFRACTORY BRICKS, TYPE-K2 FOR ABF-II & III. 3. DENSE REFRACTORY BRICKS, TYPE-K3 FOR ABF-II & III. 4. DENSE REFRACTORY BRICKS, TYPE-L1 FOR ABF-II & III. 5. DENSE REFRACTORY BRICKS, TYPE-L2 FOR ABF-II & III. 6. DENSE REFRACTORY BRICKS, TYPE-L3 FOR ABF-II & III. 7. DENSE REFRACTORY BRICKS, TYPE-M FOR ABF-II & III. 8. DENSE REFRACTORY BRICKS, MARK-E FOR ABF-II & III. 9. AIR SETTING CEMENT MORTAR FOR ABF-II & III. 10. 80%AL2O3 CALCINED BAUXITE MARK-CB FOR ABF-II & III.	240 sets	Smelter Plant, Nalco, Angul
11	Anode Carrying Pallets ANODE CARRING PALLET FOR RODDED ANODE TRANSPORTATION ANODE CARRYING PALLETS FOR RODDED ANODE AND BATH TRANSPORTTION. AS PER OUR DRAWING NO :ROD/GA/MECH/A0/4281 REV.02 MATERIALS: CARBON STEEL AS BELOW: A) IS-226 (FOR 5MM TO 20 MM THICK PLATE) B) IS-2062 (FOR 20MM PLATE AND ABOVE)	50 EA	Smelter Plant, Nalco, Angul



SL	Items	Annual	Plant
No	items	Requirement	Fiailt
NO		(Approx)	
12	SULPHURIC ACID	Approx 700	Alumina
12	SULPHURIC ACID TECHNICAL GRADE	MT	Refinery,
		IVII	-
	SULPHURIC ACID AS PER IS: 266/1993 (REAFFIRMED 2003 WITH		Nalco,
	AMENDMENT-1)HAVING THE SPECIFICATIONS AS MENTIONED BELOW:		Damanjodi
	1. TOTAL ACIDITY (AS H2SO4): 98% MIN BY MASS.		
	2. RESIDUE ON IGINION :0.2%(MAX)BY MASS.		
	3. IRON(AS Fe): 0.05%(MAX) BY MASS.		
	4. HEAVY METALS (AS LEAD):0.005 %(MAX) BY MASS.		
	5. ARSENIC (AS AS):0.004 %(MAX) BY MASS.		
13	COAL MILL LINERS	Approx 288	Alumina
	CYLINDERICAL LINER(HIGH CHROME)AS PER DRG NALCO/MECH/SPP/3301	Nos	Refinery,
	SHEET 1 TO 5		Nalco,
	MUST HAVE FOLLOWING CHEMICAL COMPOSITION AND PHYSICAL		Damanjodi
	PROPERTIES:		
	C-2.4-2.8%;CR-22.0-28.0%;MN-1.5% MAX NI-0.5%MAX;MO-0.6%MAX		
	HARDNESS-57-62 RC RETAINED AUSTENITE:MAX 5% PRIMARY CARBIDES IN		
	MARTENISTIC MATRIX.		
14	DIASTAR FILTER BAGS	Approx 2,000	Alumina
	Diastar filter bags made of tetex monofilament polyproplyene - Mono 05-	Nos	Refinery,
	1020-SK 025 of Sefar Fyltis or PP26210Z of Clear Edge Filtration.		Nalco,
	Heat set and laquered on both sides for 6 channel (Six Channel) Diastar		Damanjodi
	filter bags of Gaudfrin security filter.		
15	POWER CABLE	Approx 2000	Alumina
	3CX50 (POWER CORE) + 3CX16 (EARTH CORE) SQMM , 6.6KV(UE)	mtrs	Refinery,
	MULTISTRAND FLEXIBLE TRAILING COPPER CABLE, GENERALLY		Nalco,
	CONFIRMING TO IS:9968(PART-2)-2002.		Damanjodi
	POWER CORE: 3X50 SQMM POWER CORE, ANNEALED ,FLEXIBLE,TINNED		
	COPPER CONDUCTOR (CLASS-5 CONF.TO IS:8130/84), CONDUCTOR		
	SCREENED WITH BLACK EXTRUDED SEMI CONDUCTING COMPOUND.EPR		
	(TYPE:IE-3 TO IS:6380/84), INSULATED, CORES SCREENED WITH BLACK		
	EXTRUDED SEMI CONDUCTING COMPOUND AND COMPOSITE BRAID OF		
	ATC & NYLON, CORE IDENTIFICATION RED, YELLOW & BLUE.EARTH		
	CORE:3X16 SQMM EARTH CORE, ANNEALED, FLEXIBLE, TINNED COPPER		
	CONDUCTOR (CLASS-5 CONF.TO IS:8130/84), COVERING WITH BLACK		
	EXTRUDED HR ELASTOMERIC COMPOUND. CORES IDENTICAL WITH OPEN		
	SPIRAL OF COLOURED PC TAPED HAVING COLOUR GREEN.		
	3 POWER CORES ARE LAID UP AROUND AND HR ELASTOMERIC CENTRE		
	WITH THE EARTH CORES PLACED AT THE OUTER INTERSTICES.BINDER		
	TAPED, INNER SHEATHED WITH BLACK HD HOFR PCP(TYPE:SE-4		
	CONF.IS:6380/84), REINFORCED WITH OPEN BRAID OF NYLON AND OUTER		
	• •		
	SHEATHED WITH BLACK HD HOFR PCP (TYPE:SE-4 CONF.IS:6380/84).		
	THE CABLE MUST BE 440 METER IN A SINGLE LENGTH WITH METER		
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	THE CABLE MUST BE 440 METER IN A SINGLE LENGTH WITH METER MARKING. THE LENGTH OF CABLE CAN BE +2.5%, BUT NOT ON MINUS SIDE, I.E NEGATIVE TOLERANCE NOT ACCEPTABLE. THE CABLE SHALL BE		



SL No	Items	Annual Requirement (Approx)	Plant
16	CONTROL CABLE 1100/650V STRANDED CU.ARMOURED PVC CONTL.CABLE 2CORE X 1.5SQ.MM 2 CORE * 1.5 SQ MM PVC,ARMOURED CONTROL CABLE WITH THE FOLLOWING SPECIFICATION: CONDUCTOR:SIZE IS 1.5 SQ MM,STRANDED,NO OF STRANDS/DIA OF EACH STRAND(MM)=7/0.5 ,ANNEALED,TINNED COPPER CONDUCTOR,HR PVC TYPE C INSULATED, EXTRUDED HR PVC INNER SHEATHED,SINGLE LAYER OF ROUND GALVANIS- ED STEEL WIRE ARMOURED AND OVERALL HR PVC SHEATHED TYPE ST- 2,UNSCREENED CABLE SUITABLE FOR 1100 VOLTS GRADE CONFIRMING TO IS:1554(PART-1) / IS:5831 WITH LAT- EST AMMENDMENT. STANDARD LENGTH OF THE DRUM:500 +/- 5%MTR.	Approx 1000 mtrs	Alumina Refinery, Nalco, Damanjodi
17	SIGNAL CABLE (3 PAIR X 0.5 SQMM) 06 core SIGNAL CABLE OF SINGLE STRAND ANNEALED BARE COPPER CONDUCTOR, EXTRUDED PVC TYPE-A INSULATED, TWISTED AND INDIVIDUAL SCREENED WITH AL-MYLAR TAPE WITH OVERALL SCREEN WITH LENGTH MARKER. GALVANISED STEEL WIRE / STRIP ARMOURED EXTRUCTED PVC ST-1 OUTER SHEET 600 GRADE SIGNAL CABLE 3 PAIR (6 CORE) X 0.5 SQRMM. STANDARD LENGTH OF THE DRUM: 500 MTR +/-5%. LENGTH OF THE CABLE IN METER SHALL BE EMBOSSED ON THE BODY.	Approx 500 Mtrs	Alumina Refinery, Nalco, Damanjodi
18	TELEPHONE CABLE POLYTHENE INSULATED JELLY FILLED ARMOURED 100/0.5M JELLYFILLED U/GROUND ARMOURED TELEPHONE CABLES ANNEALED PLAIN HIGH CONDUCTIVITY COPPER CONDUCTOR ,POLYTHENE INSULATED COLOUR CODED CORE TWISTED WATER RESISTANT PETROLEUM JELLYFILLED POLYALTAPE COATED POLYTHENE SHEATHED SHEATH HELICALLY LAPED WITH WATERPROOF COTTON/POLYTHENE TAPE ARMOURED WITH GALVANISED DOUBLE STEEL TAPE CONFORMING TO ITD SPFN G/CUG- 01/02 FEB'96 SIZE. 0.51MM X 100 PAIRS. DRUM OF SINGLE LENGTH 1000 MTR +- 5%, TOLERANCE: +/- 5% OF OVERALL LENGTH. VENDOR SHOULD PROVIDE VENDOR TEST CERTIFICATE ALONG WITH THE MATERIAL.	Approx 500 Mtrs	Alumina Refinery, Nalco, Damanjodi
19	TELEPHONE DROP WIRE 0.9X2 CORE DROP WIRE CADMIUM COPPER CONDUCTOR 2 CORE X 0.9MM USED FOR TELEPHONE CONNECTION. MINIMUM SINGLE LENGTH 500 MTRS, TOLERANCE: +/- 5%.	Approx 200 mtrs	Alumina Refinery, Nalco, Damanjodi



SL Items No		Annual Requirement (Approx)	Plant
3 Pha 350KV 4, RPI insula Moun Metho Celsiu SQUIF 6600V	tors of various specification like se AC Squirrel cage Induction motor of following specification: N, Voltage: 6600Volts (+/-) 10%, Frequency: 50Hz (+/-) 5%, Poles: M: 1478 RPM, Bidirectional, Enclosure: CACA with steel tube, Ition class: F, Connection: Star, Degree of protection: IP55, Iting: B3, Duty: S1, Confirming to IS: 325, Frame: 400. Induction of cooling: IC611, DOL starting, ambient of 47degree is: RREL CAGE INDUCTION MOTOR, 320KW,STAR CONNECTION, INV(+/)10%,50HZ (+/-)3%,1485 RPM,35AMP, IE:AVMW450ML, B3 MOUNTING, IP55,TETV.	Approx 5 Nos	Alumina Refinery, Nalco, Damanjodi
0.75K FRAM 55, . N CONF 0.75K FRAM INS.CI MOTO 3.7KW FRAM F,TEFO CONF 15KW FRAM INS.CI MOTO 0.25K FRAM INS.CI MOTO 0.75 k POLE, CLASS START DEG.C CONF 22KW POLE, CLASS START DEG.C START START POSIT ENDS. START	W,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE:-80, DUTY;S4, RPM:1480, MOUNTING:B5, INS.CLASS-F,TEFC,IP-MOTOR IS SUITABLE FOR DOL STARTING. MOTOR SHALL ORM TO IS-325. W,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE: ILB4036-6 (FRAME-80) DUTY;S4, RPM:885, MOUNTING:B3, LASS-F,TEFC,IP-55, . MOTOR IS SUITABLE FOR DOL STARTING. OR SHALL CONFORM TO IS-325. V,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE:-100L, DUTY;S4, RPM:1425, MOUNTING:B35, INS.CLASS-C,IP-55, . MOTOR IS SUITABLE FOR DOL STARTING. MOTOR SHALL ORM TO IS-325. V,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE:-160L, DUTY;S4,CDF 40%, RPM:960, MOUNTING:B3, INS.CLASS-C,IP-55, . MOTOR IS SUITABLE FOR DOL STARTING. MOTOR SHALL ORM TO IS-325. W,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE:-QU71MCBT, DUTY;S1, RPM:860, 2.1A,MOUNTING:B5, LASS-F,TEFC,IP-55, . MOTOR IS SUITABLE FOR DOL STARTING. OR SHALL CONFORM TO IS-325. W,3PH.AC,SCIM SUITABLE FOR 415V(+/-10%),50HZ(+/-5%), IE:-QU71MCBT, DUTY;S1, RPM:860, 2.1A,MOUNTING:B5, LASS-F,TEFC,IP-55, . MOTOR IS SUITABLE FOR DOL STARTING. OR SHALL CONFORM TO IS-325. W,3PH.AC,SCIM SUITABLE FOR415V(+/-10%),50HZ(+/-5%),4 EFFICIENCY CLASS:IE2,INSULATION CLASS-F.TEMP RISE UPTO OBB.FRAME-80, B5 MOUNTING,IP:55,COOLING:TEFC. INING: DOL START.DUTY-S1.AMBIENT TEMP.:50 CENT,ALTITUDE:1000MT,ENVIRONMENT:CAUSTIC & LIME DUST IS IRMATION:12615& 325 M,3PH.AC,SCIM SUITABLE FOR415V(+/-10%),50HZ(+/-5%),2 EFFICIENCY CLASS:IE2,INSULATION CLASS-F.TEMP RISE UPTO OBB.FRAME-180ML,B3 MOUNTING,TERMINAL BOX ION:RHS(VIEWED FROM DE END). GREASING PROVISION:BOTH I.IP:55,COOLING:TEFC. INING: DOL START.DUTY-S1. ENT TEMP.:50	Approx 30 Nos	Alumina Refinery, Nalco, Damanjodi



DEG.CENT,ALTITUDE:1000MT,ENVIRONMENT:CAUSTIC IS CONFIRMATION:12615&325"

22KW, 3PH.AC,SCIM SUITABLE FOR415V(+/-10%),50HZ(+/-5%),2 POLE,EFFICIENCY CLASS:IE2,INSULATION CLASS-F.TEMP RISE UPTO

CLASS B.FRAME-180ML ,B3 MOUNTING, TERMINAL BOX

POSITION:RHS(VIEWED FROM DE END). GREASING PROVISION:BOTH

ENDS. IP:55,COOLING:TEFC. STARTING: DOL START.DUTY-S1.

AMBIENT TEMP.:50

DEG.CENT,ALTITUDE:1000MT,ENVIRONMENT:CAUSTIC

IS CONFIRMATION:12615&325"

SLIP RING INDUCTION MOTOR, 3.3 KW, 8.6A, FRAME-1LT31146 (112M), 850 RPM, 415V, INSCL-B/F,PF-0.77, IP-55, ROTOR V-115V, ROTOR A-20.5A, 40CDF.MAKE- BBL OR EQUIVALENT.

SLIP RING INDUCTION MOTOR,1.1 KW, 3.5A, FRAME- 1LT3106-6, 850 RPM, 415V, PF-0.71,INS CLASS- B/F, M/C NO. M9606890, IP 55, ROTOR

V-65V ROTOR A- 13A,

SLIP RING INDUCTION MOTOR, 2.4 KW, 6.4 A, FRAME- 1LT3113-6, 840 RPM, 415V, INS CLASS-B/F PF-0.74, IP 55, DUTY S3,40 CDF,ROTOR V-90V, ROTOR A- 20.5A

SLIP RING INDUCTION MOTOR, 30KW 980 RPM MC NO.-

ADWT50038,V-415V,AMP -55A, INS CLASS-F, 50 Hz, DUTY -S4,FRAME 250M, ROTOR V-320V, ROTOR A- 56A,

SLIP RING INDUCTION MOTOR, 1.5KW, 415V, AMP-4A, RPM-930, FR-132S, DUTY- S4, INS CLASS -F, M/C NO.- BDWF1947, AMB-47 DEG C,ROTOR V/RA: 260/3

SLIP RING INDUCTION MOTOR, 3.7 KW, 415V, 8.5A, FRAME- 132S, RPM- 940, M/C NO.-BDWF2934, INS CLASS- F, DUTY S4, AMB -47 DEGREE C,

SLIP RING INDUCTION MOTOR, 8.2 KW, RPM- 950, 415V, 18A, FRAME-DW 160L, M/C NO.- ADWJ50112, DUTY -S4, INS CLASS - F, 40% CDF, IP55, BRGS- N209/6209, ROTOR V/RA: 350/13,

SCIM, 0.75 KW, 415V, 2.0A,P.F.- 0.71, FRAME-90S, INS CLASS-F/B, RPM-925, AMB-50 DEG C,S4, CDF -40%, B3 , IP 55, EFF-73%,

83KW,280M,4P,B3 MOTOR

SCIM, 83KW,415V(+/-10%),50HZ(+/-5%),FRAME-280M,1480RPM, B3 MOUNTING,EFFICIENCY CLASS:IE2,INSULATION CLASS-F.TEMP RISE UPTO CLASS B.,TERMINAL BOX POSITION:RHS(VIEWED FROM DE END). GREASING PROVISION:BOTH ENDS. IP:55, COOLING:TEFC.CABLE ENTRY PLATE:1 RUN X 95 SQMM.STARTING: VFD START.DUTY-S1.

AMBIENT TEMP. :50, DEG.CENT,

ALTITUDE:1000MT,ENVIRONMENT:CAUSTIC

IS CONFIRMATION:12615 & 325