

**SCHEDULE OF RATES**

**NAME OF WORK: R AND M OF ASH DISPOSAL/RECLAIMER, FIRE AND DRINKING WATER LINES, WT LINE HEADER, SHEETING, STRUCTURES, ROLLING SHUTTERS INSIDE ALUMINA PLANT, NALCO DAMANJODI (T&C/AR/03/eR-3018)**

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
	<b>PART - A (PIPE LINES)</b>		
1	33.01.00) Miscellaneous piping works of following description for pipe modification / rectification etc. which are not envisaged in any other item including all laboures tools, tackles, consumables ,plant and equipments at any height / all location / elevation as per instruction of Engineer-In-Charge.(measurement will be taken along the cutting/welding length only)		
2	33.01.01) Cutting and bevelling of pipes of all diameters	CM	7.26
3	33.01.02) Full welding of pipes of all diameters after tack-welding	CM	9.77
4	33.02.00) Replacing the rubber gasket AND/OR the sleeve coupling of Ash Disposal pipe line including removal of the sleeve coupling and refixing of the same at its original location along with new / serviceable rubber gaskets at all / any height including all tools , tackles , labours equipments and consumables required for due completion of work as per instruction Engineer-In-Charge (REQUIRED RUBBER GASKET AND SLEEVE COUPLING SHALL BE ISSUED FREE OF COST FROM NALCO'S STORE)	Set	1331.26
5	33.03.00) Repair of ERW pipe line along the seam weld by providing a pad plate after cutting the pad plate out of available / damaged pipes and making fit up , tack welding finally full welding to make the pipe line leakproof with all labour, consumables, tools, tackles, plant equipments etc. (e.g. disel welding generator etc, for cross country works ) including required transporation of man & materials etc. all complete as per the instruction of Engineer-In-Charge (REQUIRED OLD PIPE FOR PAD PLATE SHALL BE ISSUED FREE OF COST) (THE PAYEMENT SHALL MADE FOR WELDING LENGTH OF PAD PLATE ONLY)	RM	2172.34
6	33.04.00) Dismantling of pipeline of following diameters at any location / elevation in Ash reclaim line / Water supply/Fire mains with all labours, tools, tackles, consumables including cutting by gas or any other means, lowering down the pipes from racks if required & supervision etc. all complete and as per instruction Engineer-In-Charge.(Necessaary earthwork , dismantling and fitting of specials will be paid in respective items)		
7	33.04.01) 400mm Dia pipe	RM	701.29
8	33.04.02) 350mm Dia pipe	RM	701.29
9	33.04.03) 300mm Dia Pipe	RM	472.09
10	33.04.04) 250mm Dia Pipe	RM	440.59
11	33.04.05) 200mm Dia Pipe	RM	409.04
12	33.04.06) 150mm Dia Pipe	RM	377.3
13	33.04.07) 100mm Dia Pipe	RM	251.29
14	33.04.08) 75mm Dia Pipe	RM	182.6
15	33.04.09) 50mm Dia Pipe	RM	159.72
16	33.05.00) Fabrication, Erection of the MS / CS pipeline of following diameters at any / all location / elevation at piperack or pipe sleepers with all labours, tools, tackles, including pipe specials etc wherever required. cutting & welding of pipes consumables, plant & equipments and supervisions etc. all complete as per the the instruction of Engineer-In-Charge.(Necessaary earthwork & dismantling will be paid in respective items)(Specials will be paid seperately) ( REQRUED PIPE SHALL BE ISSUED FREE OF COST AT NALCO'S STORE )		
17	33.05.01) 400mm Dia pipe	RM	701.29
18	33.05.02) 350mm Dia pipe	RM	701.29
19	33.05.03) 300mm Dia Pipe	RM	472.09
20	33.05.04) 250mm Dia Pipe	RM	440.59
21	33.05.05) 200mm Dia Pipe	RM	409.04
22	33.05.06) 150mm Dia Pipe	RM	377.3
23	33.05.07) 100mm Dia Pipe	RM	251.29

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1	2	3	4
24	33.05.08) 75mm Dia Pipe	RM	182.6
25	33.05.09) 50mm Dia Pipe	RM	159.72
26	33.06.00) Removal of valves from required location and fixing of New valves or spools of all types following diameters from existing positions at all locations / elevations in pipe rack / pipe sleepers including all labours ,tools tackles,including cutting of bolts if required, lowering down from racks, consumables , plant & equipments etc all complete as per the direction of Engineer-In-Charge. ( The valve will be issued free of cost from central store or repaired valve will be given from MRS) ( Necessary Earthwork & Dismantling will be paid in respective items)		
27	33.06.01) For valve of size 400mm/350mm/300mm	Nos	4344.01
28	33.06.02) For valve of size 250mm/200mm	Nos	3050.61
29	33.06.03) For valve of size 150mm and down	Nos	1348.76
30	33.06.04) For fire hydrant valve.	Nos.	600.91
31	33.07.00) Insertion of New valves in the pipe line at required location or spools of all types following diameters from existing positions at all locations / elevations in pipe rack / pipe sleepers including all labours ,tools tackles, consumables , plant & equipments etc all complete as per the direction of Engineer-In-Charge. ( The valve will be issued free of cost from central store or repaired valve will be given from MRS) .( Necessaary earthwork & dismantling,cutting and welding will be paid in respective items)		
32	33.07.01) For valve of size 400mm/350mm/300mm	Nos	3027.76
33	33.07.02) For valve of size 250mm/200mm	Nos	1734.36
34	33.07.03) For valve of size 150mm and down	Nos	618.18
35	33.08.00) Repairing & Servicing of valves of all types and of following diameters at any all location / elevations in various pipe lines in rack / pipe sleepers/on ground including all labours ,tools tackles, consumables , nuts and bolts, rust disc integrator oil, greasing, supervisions etc. to make valve functioning properly all complete as per direction of Engineer-In-Charge.(Necessaary earthwork & dismantling will be paid in respective items, Payment against this item will be made only when the valve is fully opened). (Necessary rust disintegrator oil , grease,gasket etc will be provided free of cost at Nalco's store.)		
36	33.08.01) For valve of size 400mm/350mm/300mm	Nos	3039.53
37	33.08.02) For valve of size 250mm/200mm	Nos	2444.77
38	33.08.03) For valve of size 150mm and down	Nos	1106.22
39	33.09.00) Repairing & Servicing of valves of all types and of following diameters at any all location / elevations in various pipe lines in rack / pipe sleepers/on ground including all labours ,tools tackles, consumables ,Gasket fixing, nuts and bolts, rust disc integrator oil, supervisions etc. to make valve functioning properly all complete without opening the valve as per direction of Engineer-In-Charge.(Necessaary earthwork & dismantling will be paid in respective items)		
40	33.09.01) For valve of size 400mm/350mm/300mm	Nos	577.91
41	33.09.02) For valve of size 250mm/200mm	Nos	423.81
42	33.09.03) For valve of size 150mm and down	Nos	158.86
43	33.10.00) Repairing of fire hydrants at all locations inside the plant without opening the fire hydrant all complete as per the direction of the Engg-In-Charge.(Necessary fittings will be supplied free of cost from nalco's central store).	Each	57.34
44	33.11.00) Repairing ,servicing and refixing of fire hydrants after opening completely from the pipeline, all complete as per direction of ENGG-in-charge. (Required fittings will be supplied free of cost at nalco store)	NO	173.13
45	33.12.00) Removal of damaged/defect fire hydrant & fixing the new/repaired hydrant at existing location inside plant As per direction of Engg-in-charge.(fire hydrant will be supplied at free of cost at nalco store)	NO	96.64
46	33.13.00) Operation of valves in fire line network at different locations for dia 200 mm and above for isolation purposes inside plant all complete as per direction of Engg-in-charge .However payment will be made one time for both closing and opening operations.	Each	34.4

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
47	33.14.00) Fabrication of mitre bends, tees, spool, reducers of all angles of following diameter as per specifications including supply of all consumables, labours, equipments, tools, tackles etc. all complete as per instruction of Engineer-In-Charge. (REQUIRED PIPE SHALL BE ISSUED FREE OF COST FROM NALCO'S STORE)		0
48	PIPE 50 mm dia		0
49	33.14.01) Metrebend ( 3 Jts )	NO	875.34
50	33.14.02) Tee with out flange	NO	713.3
51	33.14.03) Spool piece with end flanges upto 750mm length	NO	437.67
52	33.14.04) Reducer	NO	437.67
53	PIPE 75 mm dia		0
54	33.14.11) Metrebend ( 3 Jts )	NO	1231.98
55	33.14.12) Tee with out flange	NO	1231.98
56	33.14.13) Spool piece with end flanges upto 750mm length	NO	713.3
57	33.14.14) Reducer	NO	794.32
58	PIPE 100mm dia		0
59	33.14.21) Metrebend ( 3 Jts )	NO	1588.64
60	33.14.22) Tee with out flange	NO	1394
61	33.14.23) Spool piece with end flanges upto 750mm length	NO	956.34
62	33.14.24) Reducer	NO	956.34
63	Pipe 150mm dia.		0
64	33.14.31) Metrebend ( 3 Jts )	NO	2107.31
65	33.14.32) Tee with out flange	NO	1945.28
66	33.14.33) Spool piece with end flanges upto 750mm length	NO	1313
67	33.14.34) Reducer	NO	1313
68	Pipe 200mm dia.		0
69	33.14.41) Metrebend ( 3 Jts )	NO	2269.35
70	33.14.42) Tee with out flange	NO	2269.35
71	33.14.43) Spool piece with end flanges upto 750mm length	NO	1394
72	33.14.44) Reducer	NO	1394
73	Pipe 250mm dia.		0
74	33.14.51) Metrebend ( 3 Jts )	NO	2463.97
75	33.14.52) Tee with out flange	NO	2463.97
76	33.14.53) Spool piece with end flanges upto 750mm length	NO	1588.64
77	33.14.54) Reducer	NO	1750.66
78	Pipe 300mm dia.		0
79	33.14.61) Metrebend ( 3 Jts )	NO	2820.62
80	33.14.62) Tee with out flange	NO	2820.62
81	33.14.63) Spool piece with end flanges upto 750mm length	NO	1750.66
82	33.14.64) Reducer	NO	1750.66
83	Pipe 350mm dia.		0
84	33.14.71) Metrebend ( 3 Jts )	NO	3144.67
85	33.14.72) Tee with out flange	NO	3144.67
86	33.14.73) Spool piece with end flanges upto 750mm length	NO	1945.28
87	33.14.74) Reducer	NO	2107.31
88	33.15.00) DISMANTLING OF PIPING SPECIALS: LIKE (BENDS, TEES, REDUCERS, SPOOL PIECES) By cutting/ debolting inclusive of industrial gas, welding electrodes, manpower at all levels and locations etc. Contractor has to arrange small scaffoldings/ jhula up to 01 sq.mtr. for the work.		0
89	33.15.01) 50 mm dia	NO	114.47
90	33.15.02) 75 mm dia	NO	182.72
91	33.15.03) 100mm dia	NO	205.51
92	33.15.04) 150mm dia.	NO	251.25
93	33.15.05) 200mm dia.	NO	274.21
94	33.15.06) 250mm dia.	NO	409.04
95	33.15.07) 300mm dia.	NO	423.64
96	33.15.08) 350mm dia.	NO	565.91
97	33.15.09) 400mm dia.	NO	766.77

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
98	33.16.00) ERECTION OF PIPING SPECIALS: LIKE (BENDS, TEES, REDUCERS, SPOOL PIECES) By by bolting/ welding inclusive of industrial gas, welding electrodes, manpower at all levels and locations etc. Contractor has to arrange small scaffoldings/ jhula up to 01 sq.mtr. for the work.		0
99	33.16.01) 50 mm dia	NO	114.47
100	33.16.02) 75 mm dia	NO	182.72
101	33.16.03) 100mm dia	NO	205.51
102	33.16.04) 150mm dia.	NO	251.25
103	33.16.05) 200mm dia.	NO	274.21
104	33.16.06) 250mm dia.	NO	409.04
105	33.16.07) 300mm dia.	NO	423.64
106	33.16.08) 350mm dia.	NO	565.91
107	33.16.09) 400mm dia.	NO	766.77
108	55.01.00) Earth work in Excavation in foundation Trenches or drains (not exceeding 1.5 mtr in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up-to 1.5 mtr,including getting out the excavated soil and disposal of surplus excavated earth upto a lead of 50m.		0
109	55.01.01) All kinds of soil.	Cum	219.03
110	02.25.00) Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	190.7
111	55.02.00) Providing and laying plain cement concrete at all depths below and upto ground level in foundations,fillings,non-suspended floors including tamping, curing etc. but excluding the cost of centering and shuttering etc. as specified or directed by Engg-in-charge. ( Cement will be issue free of cost by NALCO )		
112	55.03.00) P.C.C. 1:4:8 (1cement:4 coarse sand: 8 graded stone aggregate of 40mm down nominal size)	Cum	4123.32
113	55.04.00) P.C.C. 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) etc.	Cum	4194.03
114	55.05.00) Centering and shuttering including struting, propping etc. and removal of form work for foundations, footings, basis of columns Coloumns, pillars, piers, abutments, posts and struts etc up to plinth level as directed by Engineer-in-charge.	Sqm	264.96
115	55.06.00) Dismantling all type of Masonry,stacking serviceable materials at site and removing rubbish including filling in low lying areas of Plant as the case may be etc. all complete as per direction of Engineer-in-charge (up to a lead of 50 mtrs.).	Cum	1276.06
116	55.07.00) Dismantling and demolishing reinforced cement concrete work including cutting, stacking of steel bars and disposal of un-serviceable materials within 50 Mtrs lead as directed by Engineer-in-charge.	Cum	2200.47
117	55.08.00) Providing and laying 15mm thick cement plaster in cement mortar 1:6 ( 1 cement : 6 sand ) on the dismantled surface of brick wall or masonry work using approved type of sand . ( Cement will be issued free of cost by NALCO )	sqm	241.01
118	55.09.00) Marking of chainage along the pipe line at specified distance with details such as Chainage in M, Bend No,Line name&no,date of replacement etc of size/dimension as per the instruction of Engg-In-Charge for all pipes of any dia at all locations inside the plant.	Each	24.4
119	55.10.00/1.1.2) Removal of earth/Debris material of any description and any other waste materials,spoil including loading into trucks/tractors using baskets by head load or any other means and transporting by trucks/tractors and unloading at the earmarked places,spreading,levelling complete for the leads upto 3.00 KM.	cum	167.5
120	55.11.00) Carriage of Scrap Pipes/bends/valves/Structural Scraps etc generated during the execution of the works, from working site to the scrap yard of Nalco , all complete as per the instruction of EIC .(Payment will be made as per the weighment slip of nalco )	MT	457.71

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
121	55.12.00) Rotation of 300mm / 250mm dia. Ash disposal pipe line by 180 degrees all through the alignment of the cross country pipeline including removal of sleeve couplings, rubber gasket & cutting, welding of pipe wherever required with all tool tackles, equipments required for smooth completion of the job at all heights and depths, i.e. on pipe rack or pipe sleepers which passes through the cross country hilly terrain from ash disposal pump house to ash pond area as per the instruction of Engineer-in-charge . (The job includes marking of chainage of the rotated pipe, chainage marking at 50 mtrs. distance interval, date of rotation & line number.) (REQUIRED RUBBER GASKET & SLEEVE COUPLINGS SHALL BE ISSUED FREE OF COST FROM NALCO's STORE POINT).	RM	93.36
	<b>Part - B</b>		0
122	13.50.04) Applying priming coat with With ready mixed red oxide zinc chromate primer approved brand and manufacture on wood/steel galvanisediron/steel works including cleaning with sand paper/ wire brush as per requirement, tools tackels all complete.	SQM	88.04
123	12.1.2) Fixing in position CGI Sheets/PPGL Sheets/Aluminium alloy Sheets/Translucent Sheets (FRP) including taking delivery from NALCO's Stores for all works in roofs , walls gables and louvers etc. including all accessories like 8mm Jor L hook bolts , nuts, limpet washers etc. including cutting mitering drilling temporary, scaffolding, staging with all labours , tools tackls etc. all complete. ( PPGL SHEET/ CGI SHEET/ Aluminium alloy sheets/Translucent sheets SHALL BE ISSUED FREE OF COST AT NALCO'S STORE)	Sqm	301.25
124	12.12.00) Fixing in position following AC Sheet Accessories issued from NALCO's Stores or any other place specified by Engineer-in-charge including all accessories like 8mm Jor L hook bolts , nuts, limpet washers and mitering, cutting, drilling, temporary scaffolding, staging including all labour tools, tackles and material required to completion of work.( ONLY AC SHEET ACCESSORIES SHALL BE ISSUED FREE OF COST AT NALCO'S STORE)		0
125	12.12.3/12.13.6.) Close fitting, adjustable ridges in pairs including ridge finals at ends.	RM	67.87
126	12.13.5) Corner piece and barge boards.	RM	26.94
127	12.13.10) Apron pieces	RM	14
128	12.13.8) S type AC louvers.	RM	178.1
129	12.13.3) AC north light curves	RM	49.47
130	15.28.00) Dismantling of CGI/ AC Sheeting work from existing building and stacking the same or disposing at the dumping yard as the case may be without damaging the sheets etc. all complete as per the direction of Engineer-in-charge.		0
131	15.28.2) A C sheet	SQM	49.42
132	15.28.1) CGI sheet/PGI Sheet/PPGL Sheet/FRP Sheet	SQM	105.82
133	24.06.00) Removal and Refixing NALCO's AC / GI sheets/PPGL sheets /FRP Sheets and making arrangements for staging , scaffolding , loosening of adjacent sheets to fix the sheets etc. all complete . The required fixing accessories like 8mm J or L hook bolts, nuts, limpet, washer including mitering, cutting, drilling etc. shall be done by contractor. (The net area of sheet fixed shall only be taken for payment)	SQM	147.65
134	15.18.00) Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	MT	3620
135	24.09.00) Supplying, fixing & Tightining of 8mm dia J or L stich bolts and nuts on all types of roofs and walls gables louvers in AC/CGI sheeting work at all heights including providing limpet/ bitumen washers and changing the same where ever required to make the area totally leakproof including arrangements for staging, scaffolding, tools, tackls, labours etc.all complete	SQM	7.89
136	24.15.00) Providing and sealing of penetrated structural steel member in AC / CGI sheet work using fresh bitumen /sealing compound including the cleaning of the old surfaces, heating the old bitumen compound by using the burner etc.all complete to make the joint leakproof. (BITUMEN SEALING COMPOUND AND BITUMEN PRIMER SHALL BE ISSUED FREE OF COST FROM NALCO'S STORE)	EACH	495.88

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
137	24.25.00) Fabrication and erection of MS Gutter with CR Sheet / MS plate of Various size and various thickness including one coat of primer including dismantling & removal of the same with all labour, tools,tackles , materials consumables including scaffolding required. etc. and as per drawing at all heights & locations all complete as directed by Engineer-In-charge. (REQUIRED C.R. SHEET/ MS PLATE WILL BE ISSUED FREE OF COST FROM NALCO'S STORE )	RM	1140.88
138	24.26.00) Making all arrangement for Cleaning of Alumina dust or any other foriegn material deposited partly or fully coverd with AC / CGI sheet / MS Gutter of various buildings like workshop, central store etc. with all consumable , tools, safety arrangements complete as directed by Engineer-In-Charge.	RM	20.51
139	DSR: 10.02.00*60%) Taking delivery of steel from NALCO's store or from the available scrap/dismantled materials, transport to fabrication shop, fabricating and applying one coat of approved protective paint, all complete as directed by Engineer-in-Charge for all category of Structral steelwork i.e. trusses, wind ties, purlins, portals, frame work, columns, girders, bracings, monorails etc including all necessary connections as per drawings specifications. (REQUIRED STRUCTURAL STEEL SECTIONS PLATE ETC SHALL BE ISSUED FREE OF COST AT NALCO'S STORE)	MT	23472
140	DSR: 10.02.00* 40%) Erection of fabricated structural steel structures true to level and alignment as per drawings and specifications and instruction of Engineer-in-Charge including making arrangements for transportation where ever required to erection site etc. all complete including all labour,tools,tackels,consumables etc.all heights.	MT	15648
141	15.19.00) Dismantling of structural steel works of all types at all heights including making the cut edges smooth by grinding etc. The dismantled members are to be lowered carefully or any other place specified by Engineer-In-charge with out any damage etc all complete .The mode of dismantling shall be approved after mutual disscussion in advance with the Engineer-In-Charge.	MT	2410
142	32.04.00/15.19.00+10.02.00) Refabrication / modification by dismantling/removal of the existing structural steel work such as gate/grill/railing etc as per specification and instruction of Engineer-In-Charge all complete .This shall include cutting/welding of certain members, however welding of additional members will be paid seperately under respective items . Including applying primer on newly fabricated member or at welding joint. The payment shall be restricted to weight of members dismantled. The rate includes all labour, tools, tackles, consumables, etc. required for completion of work. (STRUCTRAL STEEL REQUIRED SHALL BE ISSUED FREE OF COST AT NALCO'S STORE)	MT	41530
143	13.62.1) Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	MT	2460.96
144	14.72.00) Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	SQM	223.94
145	Supply of Unskilled worker with tools and tackles.	EACH	947.21
146	Supply of Semi skilled worker with tools and tackles.	EACH	1147.38
147	10.20.00) Providing and fixing bolts of required dia. Including nuts and washers complete , fixing in position with proper alingment , including all materials and all labours , etc. Complete.	KG	111.52

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
148	Non-DSR) Supplying and fixing of heavy duty galvanised chemical anchor fastner of Hilti make type HSL-3 or HY 150 or approved equivalent of dia. 16mm and appropriate length shown in drawings.(max. 300mm long) in concrete to take direct tension of minimum 1.6 MT including workmanship ,drilling , cleaning the hole ,placing and alinging the fastner , including all tools and materials etc. all complete.	Each	1813.45
<b>Part - C</b>			
149	13.53.01) Painting on rolling shutters with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade including cleaning/scrapping of old paint on old work (two or more coats) including a coat of approved steel primer as per direction of Engineer-in-charge.	Sqm	119.82
150	14.21.00) Renewing bottom rail and/or top rubber of collapsible gate including making good all damages and applying priming coat of zinc chromate primer of approved brand and manufacturer including all labours tools and tackles complete as per direction of Engineer-in-charge.	Kg	210.69
151	14.22.00) Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection including all labours tools and tackles complete as per direction of Engineer-in-charge.		0
152	14.22.1) Wheel 50 mm dia. and below per wheel	Each	127.62
153	14.22.2) Wheel above 50 mm dia. per wheel	Each	209.22
154	21.61.00) Making all arrangement for opening of M.S cover of rolling shutter of size up to (5mx6m) and its part for different repair works or replacement of the parts as per requirment and refixing the same (after rectification or replacing of any spare parts) including all cost of labours tools & tackles but excluding the cost of spare parts replaced which shall be paid seperately under relevent items as per direction of Engineer-in-charge..	Each	556.22
155	21.62.00) Making all arrangements for removal of the axle pipe assembly with its allied parts like spring , bearing/worm wheel etc. and refixing after repair work including cutting,welding etc. if necessary including all cost of labours ,tools , tackles complete as per direction of Engineer-in-charge.(MS Cover opening and refixing shall be paid under item 21.61.00) .	Each	678.97
156	21.63.00) Making all arrangements for Removal of the damaged springs & Refixing after maintenance or Replacing with new spring for rolling shutter with all cost of labour ,tools, & tackles complete as per direction of Engineer-in-charge. ( Only M.S. cover opening and new spring shall be paid seperatly under relevent items ).	Each	536.23
157	21.64.00) Making all arrangements for removing and refixing MS side guide channel including all necessary dismantling, rectification like welding ,cutting, etc including all cost of labour consumables materials tools & tackles etc complete.	Each	779.34
158	21.65.00) Making all arrangements for greasing to all parts of the existing rolling shutter, required tensioning of all springs including all labour, tools & tackles etc complete.( Only Opening of MS cover shall be paid under relevent item.)	Each	722.93
159	21.66.00) Making all arrangements for Repairing and refixing of Old /New top and bottom Gear assembly set and greasing including cost of approved quality grease , labour, tools & tackles etc complete.( Opening of MS cover shall be paid under relevent items.)	Each	821.11
160	21.67.00) Supplying the following parts for rolling shutters of size up-to (5Mx6M) as approved by Engg-in-in-charge. (Material shall be supplied by the Contractor as per requirement during maintenance)		0
161	21.67.01) Wire spring for rolling shutter as approved	Each	1305.68
162	21.67.02) Top and bottom gear assembly set for rolling shutter	Each	4352.27
163	21.67.03) Ball Bearing for rolling shutter	Each	348.18
164	21.67.04) M.S Axle pipe of dia up to 65mm size of all length (Heavy Duty)	RM	261.14
165	21.67.05) Lock Plate of 2.5mm thick (minimum) reinforced with MS angle not less than 35x35x5mm	Each	870.45
166	21.67.06) Cleat	Each	87.05
167	21.67.07) Connnecting rod	RM	217.61
168	21.67.08) Staffing rod	Each	1305.68
169	21.67.09) Steel hood with necessary fixture min 0.9mm thick	RM	1131.59

SI No.	Item No. & Item Description	Unit	Unit Rate (Rs.) excl GST
1	2	3	4
170	21.68.00) Supplying and fixing the following parts of approved quality for rolling shutters of size up-to (5Mx6M) and conforming to IS Standard specifications as per direction of Engineer-in-charge.(Material shall be supplied by the Contractor as per requirement during maintenance)		0
171	21.68.01) Shutter strip	RM	113.16
172	21.68.02) Guide channel of required size	RM	165.39
173	21.68.03) Repairing / servicing of collapsible gate inside alumina plant.	Each	813.82
174	10.06.01) Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters: 80x1.25 mm M.S. laths with 1.25 mm thick top cover .	SQM	2554.01
175	21.70.00) Dismantling of Rolling shutter & stacking the same within 50 mtr.	Each	810.9
<b>The total estimated Works cost excluding GST in Rs</b>			<b>15,089,937</b>
<b>The rates indicated in Annexure-IIA are inclusive of all taxes and duties except GST</b>			
<b>GST shall be payable extra at applicable rates prevailing at the time of execution of the job</b>			
<b>Bidders have to quote their price in the ".xls" price bid format (Annexure-IIB) uploaded in CPPP against the subject job, in the form of overall "premium" or "discount" in percentage over the NALCO's schedule of rates or accept the NALCO's schedule of rates in toto.</b>			
<b>In the event of placement of order, Work Order value shall be limited to a maximum of above estimated value</b>			