

Sanjay Andey

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CAT NO.- 1/86/2007-2008 & I.V. NO.- F-11988(L.M.)

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DATE: 30/12/2022

PLACE: AKOLA

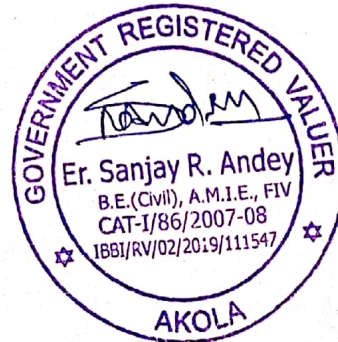
Certificate of Resonableness of Estimate

This is to certify that the detailed estimate of Construction of Processing Unit (Distillation Unit Fracilation Unit Testing Lab) For Nardus Aromatic Oil Producer Company Ltd. constructed in S.No.-109 at Post-Chandai, Tq.-Karanja & Distt.-Washim is verified by me.

On the said Plot , construction Processing Unit will take place & for that the estimate is submitted by said client.

The proposed construction of said Structutre will be on R.C.C. foundation. The B/up area of Processing Unit- 510.00sq.mt.i.e.5487.60sq.ft. having estimated cost of Rs.94,49,999/- (Including Cost of Internal Road, GST Charges etc) which is Rs.1722/-sq.ft.which is fair & reasonable for the specifications considered in the estimate.

Hence Certified.



महाराष्ट्र शासन
कृषि विभाग
मा. बाळासाहेब ठाकरे कृषि व्यवसाय व ग्रामीण परिवर्तन प्रकल्प (स्मार्ट)
(जागतिक बँक अर्थसहाय्यित)



[DETAILED - ESTIMATE]

Name of work :

PROPOSED CONSTRUCTION OF PROCESSING UNIT (DISTILATION UNIT FRACILATION UNIT TESTING LAB).FOR NARDUS AROMATIC OIL PRODUCER COMPANY LTD. ON SURVEY NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM WITH CONSTRUCTION AREA 510 SQ.M .

ESTIMATED COST: 9449999.00RS

ESTIMATE

Division:-

Fund Head:-

Major Head:-

Minor Head:-

Service Head:-

Departmental Head:-

Estimate framed by the state scheduled rate of year 2022-2023 and all the necessities are fulfilled by the demand of projects estimate. All the charges , taxes are already included in the estimated amount the amount can flexible up to the 10%.

General Description

Separately Attached

Recapitulation Sheet

Name of Work NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .

SSR YEAR 2022-2023

Sub Work

Amount

1	PROPOSED CONSTRUCTION FOR PROCESSING UNIT (DISTILATION UNIT FRACILATION UNIT SPECIMEN TESTING LAB)	7,856,650.61
2	Testing Charges Estimate	100,585.00

Total Amount

7,957,235.61

Round off

7,957,236.00

ADD ON WORK PORTION

GST Charges 18 % (On Work Portion)

1,414,197.00

Contingency 1 % (On Work Portion)

78,567.00

Grand Total

9,449,999.61

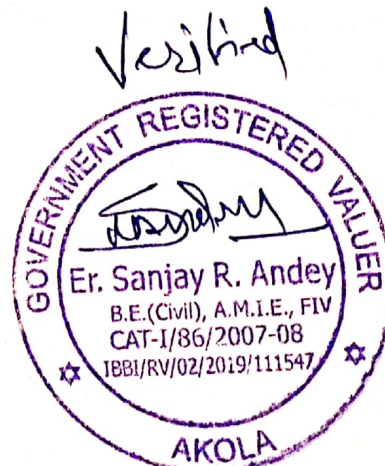
Round off

9,450,000.00

Rupees Ninty Four Lakh Fifty Thousand Only

Junior Engineer
ENGINEER

Junior Engineer
ENGINEER



Name of Work : NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY
NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .

Description	Quantity	Rate/Unit	Amount
1 . NAME OF SUB WORK -- PROPOSED CONSTRUCTION FOR PROCESSING UNIT (DISTILATION UNIT FRACILATION UNIT SPECIMEN TESTING LAB)			
ITEM NO. : 1 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.....(INo21-36 , PgNo 157) (STATE SSR) Item Spec: (Bd.A.10 Page No. 262)	714.000	120.00/Cu.Mt.	85,680.00
ITEM NO. : 2 Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.),with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo24-04, PgNo 175) (STATE SSR) Item Spec: (Bd.E.2 Page No. 288 and B.7 Page No 38)	139.872	6868.20/Cu.Mt.	960,668.90
RA NO. : 1			
ITEM NO. : 3 Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo25-17, PgNo 179) (STATE SSR)	52.992	8082.10/Cu.Mt.	428,286.65

Description	Quantity	Rate/Unit	Amount
Item Spec: (Bd.F.3 Page No. 298 and B.7, Page No.38) RA NO. : 2			
ITEM NO. : 4 Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)....(INo25-11 NS, PgNo 178) (STATE SSR) Item Spec: (Bd.F.3 Page No. 298 and B.7, Page No.38) RA NO. : 3	16.885	7486.00/Cu.Mt.	126,401.10
ITEM NO. : 5 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo25-50, PgNo 181) (STATE SSR) Item Spec: (Bd.F.6 Page No. 300 and B.7, Page No.38) RA NO. : 4	21.712	12777.00/Cu.Mt	277,414.20
ITEM NO. : 6 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.....(INo27-01, PgNo 197) (STATE SSR) Item Spec: (Bd.G. 1 Page No. 313) RA NO. : 5	32.568	8453.20/Cu.Mt.	275,303.80
ITEM NO. : 7 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement	113.252	8692.20/Cu.Mt.	984,409.05

Description	Quantity	Rate/Unit	Amount
<p>mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete....(INo27-05, PgNo 197) (STATE SSR) Item Spec: (Bd.G.5 Page No. 315)</p> <p>RA NO. : 6</p>			
<p>ITEM NO. : 8 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.....(INo32-11, PgNo 209) (STATE SSR) Item Spec: (Bd.L.7 Page No. 369)</p> <p>RA NO. : 7</p>	430.700	652.80/Sq.Mt.	281,160.95
<p>ITEM NO. : 9 Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.....(INo32-01, PgNo 209) (STATE SSR) Item Spec: (Bd.L.1 Page No. 367)</p> <p>RA NO. : 8</p>	430.700	206.15/Sq.Mt.	88,788.80
<p>ITEM NO. : 10 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.....(INo36-11 , PgNo 227) (STATE SSR) Item Spec: (Bd.P.5 Page No. 413)</p>	435.940	48.00/Sq.Mt.	20,925.10
<p>ITEM NO. : 11 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.....(INo23-01, PgNo 173) (STATE SSR) Item Spec: (Bd.C.2 Page No. 275)</p> <p>RA NO. : 9</p>	2.242	102126.90/M.T.	228,968.50

Description	Quantity	Rate/Unit	Amount
<p>ITEM NO. : 12 Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.....(INo23-02, PgNo 173) (STATE SSR) Item Spec: (Bd.C.3 Page No. 275)</p> <p>RA NO. : 10</p>	2.634	98041.90/M.T.	258,242.35
<p>ITEM NO. : 13 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.....(INo23-04, PgNo 173) (STATE SSR) Item Spec: (Bd.C.8 Page No. 278)</p> <p>RA NO. : 11</p>	1.729	119741.90/M.T.	207,033.75
<p>ITEM NO. : 14 Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 kg/sq.m.).....(INo38-05 , PgNo 233) (STATE SSR) Item Spec: (Bd.R.5, Page No. 453)</p>	979.200	1139.00/Sq.Mt.	1,115,308.80
<p>ITEM NO. : 15 Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 21.30 meter having arch rise as 4.26 meter, arch length 25.13 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter (tolerace + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be</p>	19.000	2357.00/Sq.Mt.	44,783.00

Description	Quantity	Rate/Unit	Amount
necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.....(INo38-42 , PgNo 239) (STATE SSR) Item Spec: (As directed by Engineer in charge.)			
ITEM NO. : 16 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear)....(INo39-25 , PgNo 249) (STATE SSR) Item Spec: (Bd.T.55, Page No. 510)	37.200	5308.00/Sq.Mt.	197,457.60
ITEM NO. : 17 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete.....(INo39-15 , PgNo 247) (STATE SSR) Item Spec: (Bd-T-42, Page No. 503)	60.320	4804.00/Sq.Mt.	289,777.30
ITEM NO. : 18 Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete.....(INo36-04 , PgNo 227) (STATE SSR) Item Spec: (Bd. P.2 Page No. 412)	435.940	10.00/Sq.Mt.	4,359.40
ITEM NO. : 19 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns,	7.212	89958.20/M.T.	648,778.55

Description	Quantity	Rate/Unit	Amount
canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.....(INo26-33, PgNo 188) (STATE SSR) Item Spec: (Bd.F.17, Page No. 306) RA NO. : 12			
ITEM NO. : 20 Excavation for foundation by mechanical means in earth, soils of all types, sand, gravel, soft murum including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. Upto 1.50m lift Normal Rate....(INo12-02A , PgNo 84) (STATE SSR) Item Spec: (BR.3 Page No. 102)	132.480	239.00/Cu.Mt.	31,662.70
ITEM NO. : 21 Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure including steel centering, formwork, compacting, finishing with minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing and finishing if required complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer. complete, . With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo24-12, PgNo 176) (STATE SSR) Item Spec: (Bd.E.7 Page No 291 and B-7 Page No .38) RA NO. : 13	5.040	13453.75/Cu.Mt	67,806.90
ITEM NO. : 22 Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)....(INo24-10 NS, PgNo 176) (STATE SSR) Item	98.280	7108.75/Cu.Mt.	698,647.95

Description	Quantity	Rate/Unit	Amount
Spec: (Bd.E.4 Page No. 289 and B-7, Page No.38) RA NO. : 14			
ITEM NO. : 23 Providing and fixing 50 mm. dia. medium class G.I. pipe gate with wicket gate of approved drawing with all fixtures & fittings in two leaves with strong hold fast embedded in c.c. block at top & bottom with locking arrangement including cutting, bending, making holes and with one coat of primer etc. complete.....(INo23-05 , PgNo 173) (STATE SSR) Item Spec: (As directed by Engineer in charge.)	26.460	7257.00/Sq.Mt.	192,020.20
ITEM NO. : 24 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm 8 guage thick and fixed 75 mm above Ground level on vertical M.S Angle of 40 x 40 x 6 mm size including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M.c/c with iron bar 16 mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm Angles both sides at every corner or bends embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.....(INo46-39 , PgNo 298) (STATE SSR) Item Spec: (As directed by Engineer in charge.)	135.000	2539.00/R.Mt.	342,765.00
TOTAL AMOUNT FOR SUB WORK NO. 1 Rupees Seventy Eight Lakh Fifty Six Thousand Six Hundred And Fifty And Paise Fifty Five Only			7,856,650.55
2 . NAME OF SUB WORK -- Testing Charges Estimate			
ITEM NO. : 1 STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)....(INo73-VQC , PgNo 586) (STATE SSR) Item Spec: (As per Standard Specification)	3.000	1595.00/1 Test	4,785.00
ITEM NO. : 2 SOIL / MURUM Sieve Analysis.....(INo29-VQC , PgNo 585) (STATE SSR) Item Spec: (As per Standard Specification)	5.000	690.00/1 Test	3,450.00

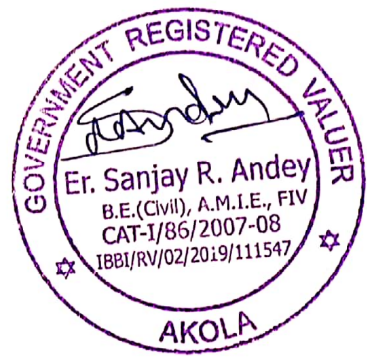
Description	Quantity	Rate/Unit	Amount
ITEM NO. : 3 SOIL / MURUM Liquid limit & plastic Limit.....(INo30-VQC , PgNo 585) (STATE SSR) Item Spec: (As per Standard Specification)	5.000	1170.00/1 Test	5,850.00
ITEM NO. : 4 SOIL / MURUM Compaction Test (Proctor Density).....(INo31-VQC , PgNo 585) (STATE SSR) Item Spec: (As per Standard Specification)	5.000	1860.00/1 Test	9,300.00
ITEM NO. : 5 Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness....(INo1-VQC , PgNo 584) (STATE SSR) Item Spec: (As per Standard Specification)	5.000	3770.00/1 Test	18,850.00
ITEM NO. : 6 BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity. Impact Value Crushing Value.....(INo2-VQC , PgNo 584) (STATE SSR) Item Spec: (As per Standard Specification)	3.000	2600.00/1 Test	7,800.00
ITEM NO. : 7 BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).....(INo13-VQC , PgNo 584) (STATE SSR) Item Spec: (As per Standard Specification)	3.000	2175.00/1 Test	6,525.00
ITEM NO. : 8 CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes).....(INo19-VQC , PgNo 584) (STATE SSR) Item Spec: (As per Standard Specification)	4.000	690.00/1 Test	2,760.00
ITEM NO. : 9 CONCRETE Concrete Mix Design (With all Tests on basic materials)....(INo20-VQC , PgNo 584) (STATE SSR) Item Spec: (As per Standard Specification)	3.000	13755.00/1 Test	41,265.00

Description	Quantity	Rate/Unit	Amount
TOTAL AMOUNT FOR SUB WORK NO. 2 Rupees One Lakh Five Hundred And Eighty Five Only			100,585.00

Junior Engineer
ENGINEER

Junior Engineer
ENGINEER

Verified



Measurement Sheet

Name of Work **NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .**

SSR YEAR 2022-2023

Item No. & Description	Measurement No. L. B. D.	Quantity
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1 . NAME OF SUB WORK -- PROPOSED CONSTRUCTION FOR PROCESSING UNIT (DISTILATION UNIT FRACILATION UNIT SPECIMEN TESTING LAB)

ITEM NO. : 1 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete..... (INo21-36, PgNo 157) (STATE DSR)

1*25*12*1.4	420.000
1*15*14*1.4	294.000
Total Quantity	714.000 Cu.Mt.

ITEM NO. : 2 Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if..... (INo24-04, PgNo 175) (STATE DSR)

46*1.2*1.2*0.30	19.872
1*25*12*0.25	75.000
1*15*12*0.25	45.000
Total Quantity	139.872 Cu.Mt.

ITEM NO. : 3 Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C..... (INo25-17, PgNo 179) (STATE DSR)

46*1.2*1.2*0.80	52.992
Total Quantity	52.992 Cu.Mt.

ITEM NO. : 4 Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. col..... (INo25-11 NS, PgNo 178) (STATE DSR)

30*0.23*0.38*4.2	11.012
16*0.23*0.38*4.2	5.873
Total Quantity	16.885 Cu.Mt.

ITEM NO. : 5 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including s..... (INo25-50, PgNo 181) (STATE DSR)

36*0.23*0.80	6.624
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Item No. & Description	Measurement			Quantity
	No.	L.	B. D.	
	24	0.23	0.80	4.416
	30	0.23	0.80	5.520
	28	0.23	0.80	5.152
	Total Quantity			21.712 Cu.Mt.

ITEM NO. : 6 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manua..... (INo27-01, PgNo 197) (STATE DSR)

118 * 0.23 * 1.2	32.568
Total Quantity	32.568 Cu.Mt.

ITEM NO. : 7 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Comple..... (INo27-05, PgNo 197) (STATE DSR)

68 * 0.23 * 3.3	51.612
40*0.23*3.3	30.360
FOR OFFICE 14*0.23*4	12.880
FOR LAB 20*0.23*4	18.400
Total Quantity	113.252 Cu.Mt.

ITEM NO. : 8 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per..... (INo32-11, PgNo 209) (STATE DSR)

63*3.3	207.900
36*3.3	118.800
10*4	40.000
16*4	64.000
Total Quantity	430.700 Sq.Mt.

ITEM NO. : 9 Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete..... (INo32-01, PgNo 209) (STATE DSR)

63*3.3	207.900
36*3.3	118.800
10*4	40.000

Item No. & Description	Measurement			Quantity
	No.	L.	B. D.	
	16*4			64.000
	Total Quantity			430.700 Sq.Mt.

ITEM NO. : 10 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. compl..... (INo36-11, PgNo 227) (STATE DSR)

435.94	435.940
Total Quantity	435.940 Sq.Mt.

ITEM NO. : 11 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting,..... (INo23-01, PgNo 173) (STATE DSR)

10 * 14 * 9.5/1000	1.330
6*16*9.5/1000	0.912
Total Quantity	2.242 M.T.

ITEM NO. : 12 Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and (INo23-02, PgNo 173) (STATE DSR)

RATFTER ANGLE	10 * 13 * 4.8/1000	0.624
	5*16*4.8/1000	0.384
TIE BEAM	10*13*4.8/1000	0.624
	5*16*4.8/1000	0.384
STRUT	64*1.10*4.8/1000	0.338
	53*1.10*4.8/1000	0.280
Total Quantity		2.634 M.T.

ITEM NO. : 13 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabric..... (INo23-04, PgNo 173) (STATE DSR)

7 * 28 * 5.8/1000	1.137
6*17*5.8/1000	0.592
Total Quantity	1.729 M.T.

ITEM NO. : 14 Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge

Item No. & Description	Measurement			Quantity
	No.	L.	B. D.	
hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, l..... (INo38-05, PgNo 233) (STATE DSR)				
	2 *	27*	6.80	367.200
	2*	13*	6.80	176.800
	2*	16*	6.80	217.600
	2*	16*	6.80	217.600
	Total Quantity			979.200 Sq.Mt.

ITEM NO. : 15 Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at s..... (INo38-42, PgNo 239) (STATE DSR)

19	19.000
Total Quantity	19.000 Sq.Mt.

ITEM NO. : 16 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts..... (INo39-25, PgNo 249) (STATE DSR)

3*3.1*4	37.200
Total Quantity	37.200 Sq.Mt.

ITEM NO. : 17 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels as per drawing or as..... (INo39-15, PgNo 247) (STATE DSR)

34*1.60*0.80	43.520
28*1.0*0.60	16.800
Total Quantity	60.320 Sq.Mt.

ITEM NO. : 18 Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete..... (INo36-04, PgNo 227) (STATE DSR)

435.94	435.940
Total Quantity	435.940 Sq.Mt.

ITEM NO. : 19 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels (INo26-33, PgNo 188) (STATE DSR)

Item No. & Description	Measurement			Quantity
	No.	L.	B. D.	
	1	0.80/100	49.68*8.4	3.338
	1	1.20/100	16.74*8.4	1.687
	1	1.20/100	21.70*8.4	2.187
	Total Quantity			7.212 M.T.

ITEM NO. : 20 Excavation for foundation by mechanical means in earth, soils of all types, sand, gravel, soft murum including shoring and strutting as necessary and disposing off excavated stuff as directed etc. co..... (INo12-02A, PgNo 84) (STATE DSR)

46*1.2*1.2*2	132.480
Total Quantity	132.480 Cu.Mt.

ITEM NO. : 21 Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure (INo24-12, PgNo 176) (STATE DSR)

FOR OFFICE SLAB	1*4*3*0.20	2.400
FOR TESTING LAB SLAB	1*4*3.3*0.20	2.640
Total Quantity		5.040 Cu.Mt.

ITEM NO. : 22 Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel cen..... (INo24-10 NS, PgNo 176) (STATE DSR)

FOR PLATFORMS	3*4.2*6*1.3	98.280
Total Quantity		98.280 Cu.Mt.

ITEM NO. : 23 Providing and fixing 50 mm. dia. medium class G.I.pipe gate with wicket gate of approved drawing with all fixtures & fittings in two leaves with strong hold fast embedded in c.c. block at top & bottom..... (INo23-05, PgNo 173) (STATE DSR)

FOR INTERNAL GATE	1*4*2.7	10.800
FOR OUTER GATE	1*5.4*2.9	15.660
Total Quantity		26.460 Sq.Mt.

ITEM NO. : 24 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm 8 guage thick and fixed 75 mm above Ground level on vertical M.S Angle of 40 x 40 x 6 mm size including..... (INo46-39, PgNo 298) (STATE DSR)

135	135.000
Total Quantity	135.000 R.Mt.

Item No. & Description	Measurement				Quantity
	No.	L.	B.	D.	

2 . NAME OF SUB WORK -- Testing Charges Estimate

ITEM NO. : 1 STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)..... (INo73-VQC, PgNo 586) (STATE DSR)

3	3.000
Total Quantity	3.000 1 Test

ITEM NO. : 2 SOIL / MURUM Sieve Analysis..... (INo29-VQC, PgNo 585) (STATE DSR)

5	5.000
Total Quantity	5.000 1 Test

ITEM NO. : 3 SOIL / MURUM Liquid limit & plastic Limit..... (INo30-VQC, PgNo 585) (STATE DSR)

5	5.000
Total Quantity	5.000 1 Test

ITEM NO. : 4 SOIL / MURUM Compaction Test (Proctor Density)..... (INo31-VQC, PgNo 585) (STATE DSR)

5	5.000
Total Quantity	5.000 1 Test

ITEM NO. : 5 Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness..... (INo1-VQC, PgNo 584) (STATE DSR)

5	5.000
Total Quantity	5.000 1 Test

ITEM NO. : 6 BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity. Impact Value Crushing Value..... (INo2-VQC, PgNo 584) (STATE DSR)

3	3.000
Total Quantity	3.000 1 Test

ITEM NO. : 7 BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks)..... (INo13-VQC, PgNo 584) (STATE DSR)

Item No. & Description	Measurement			Quantity
	No.	L.	B. D.	
	3			3.000
	Total Quantity			3.000 1 Test

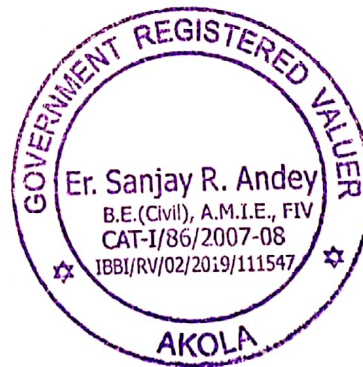
ITEM NO. : 8 CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes)..... (INo19-VQC, PgNo 584) (STATE DSR)

4			4.000
Total Quantity			4.000 1 Test

ITEM NO. : 9 CONCRETE Concrete Mix Design (With all Tests on basic materials)..... (INo20-VQC, PgNo 584) (STATE DSR)

3			3.000
Total Quantity			3.000 1 Test

Junior Engineer
ENGINEER



Rate Analysis Report

Name of Work: NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY
NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .
SSR YEAR 2022-2023

R.A. NO. : 1 - Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

INo24-04, PgNo 175 (STATE DSR)		Basic Rate.....		6359.00 / Cu.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.3 / M.T.	7 Km.	Rs.194.05	Rs.58.22
VSI / Natural Sand	0.44 / Cu.Mt.	10 Km.	Rs.345.15	Rs.151.87
Crush Metal -40mm	0.56 / Cu.Mt.	10 Km.	Rs.330.77	Rs.185.23
Crush Metal -20mm	0.22 / Cu.Mt.	10 Km.	Rs.345.15	Rs.75.93
Crush Metal -12mm	0.11 / Cu.Mt.	10 Km.	Rs.345.15	Rs.37.97
Sub Total				Rs. 6868.21
Total Amount				Rs. 6868.21
Rate				Rs. 6868.20 / Cu.Mt.

R.A. NO. : 2 - Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

INo25-17, PgNo 179 (STATE DSR)		Basic Rate.....		7562.00 / Cu.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.4125 / M.T.	7 Km.	Rs.194.05	Rs.80.05
VSI / Natural Sand	0.425 / Cu.Mt.	10 Km.	Rs.345.15	Rs.146.69
Crush Metal -20mm	0.57 / Cu.Mt.	10 Km.	Rs.345.15	Rs.196.74
Crush Metal -12mm	0.28 / Cu.Mt.	10 Km.	Rs.345.15	Rs.96.64
Sub Total				Rs. 8082.11
Total Amount				Rs. 8082.11
Rate				Rs. 8082.10 / Cu.Mt.

R.A. NO. : 3 - Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)

INo25-11 NS, PgNo 178 (STATE DSR)		Basic Rate.....	6978.00 / Cu.Mt.	
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.35 / M.T.	7 Km.	Rs.194.05	Rs.67.92
Crush Sand	0.425 / Cu.Mt.	10 Km.	Rs.345.15	Rs.146.69
Crush Metal -20mm	0.57 / Cu.Mt.	10 Km.	Rs.345.15	Rs.196.74
Crush Metal -12mm	0.28 / Cu.Mt.	10 Km.	Rs.345.15	Rs.96.64
Sub Total				Rs. 7485.98
Total Amount				Rs. 7485.98
Rate				Rs. 7486.00 / Cu.Mt.

R.A. NO. : 4 - Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

INo25-50, PgNo 181 (STATE DSR)		Basic Rate.....	12269.00 / Cu.Mt.	
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.35 / M.T.	7 Km.	Rs.194.05	Rs.67.92
VSI / Natural Sand	0.425 / Cu.Mt.	10 Km.	Rs.345.15	Rs.146.69
Crush Metal -20mm	0.57 / Cu.Mt.	10 Km.	Rs.345.15	Rs.196.74
Crush Metal -12mm	0.28 / Cu.Mt.	10 Km.	Rs.345.15	Rs.96.64
Sub Total				Rs. 12776.98
Total Amount				Rs. 12776.98
Rate				Rs. 12777.00 / Cu.Mt.

R.A. NO. : 5 - Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.

INo27-01, PgNo 197 (STATE DSR)		Basic Rate.....	7755.00 / Cu.Mt.	
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	

CEMENT	0.079 / M.T.	7 Km.	Rs.194.05	Rs.15.33
VSI / Natural Sand	0.32 / Cu.Mt.	10 Km.	Rs.345.15	Rs.110.45
BRICK	0.475 / 1000 Nos.	22 Km.	Rs.1,205.06	Rs.572.40

Sub Total				Rs. 8453.18

Total Amount				Rs. 8453.18

Rate				Rs. 8453.20 / Cu.Mt.

R.A. NO. : 6 - Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete

INo27-05, PgNo 197 (STATE DSR)	Basic Rate.....			7994.00 / Cu.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.079 / M.T.	7 Km.	Rs.194.05	Rs.15.33
VSI / Natural Sand	0.32 / Cu.Mt.	10 Km.	Rs.345.15	Rs.110.45
BRICK	0.475 / 1000 Nos.	22 Km.	Rs.1,205.06	Rs.572.40

Sub Total				Rs. 8692.18

Total Amount				Rs. 8692.18

Rate				Rs. 8692.20 / Cu.Mt.

R.A. NO. : 7 - Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.

INo32-11, PgNo 209 (STATE DSR)	Basic Rate.....			639.00 / Sq.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.0125 / M.T.	7 Km.	Rs.194.05	Rs.2.43
VSI / Natural Sand	0.033 / Cu.Mt.	10 Km.	Rs.345.15	Rs.11.39

Sub Total				Rs. 652.82

Total Amount				Rs. 652.82

Rate				Rs. 652.80 / Sq.Mt.

R.A. NO. : 8 - Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.

INo32-01, PgNo 209 (STATE DSR)	Basic Rate.....			203.00 / Sq.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	

CEMENT	0.0027 / M.T.	7 Km.	Rs.194.05	Rs.0.52
VSI / Natural Sand	0.0076 / Cu.Mt.	10 Km.	Rs.345.15	Rs.2.62

Sub Total				Rs. 206.15

Total Amount				Rs. 206.15

Rate				Rs. 206.15 / Sq.Mt.

R.A. NO. : 9 - Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.

INo23-01, PgNo 173 (STATE DSR)	Basic Rate.....			101844.00 / M.T.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
STR STEEL	1 / M.T.	15 Km.	Rs.282.91	Rs.282.91

Sub Total				Rs. 102126.91

Total Amount				Rs. 102126.91

Rate				Rs. 102126.90 / M.T.

R.A. NO. : 10 - Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.

INo23-02, PgNo 173 (STATE DSR)	Basic Rate.....			97759.00 / M.T.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
STR STEEL	1 / M.T.	15 Km.	Rs.282.91	Rs.282.91

Sub Total				Rs. 98041.91

Total Amount				Rs. 98041.91

Rate				Rs. 98041.90 / M.T.

R.A. NO. : 11 - Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.

INo23-04, PgNo 173 (STATE DSR)	Basic Rate.....			119459.00 / M.T.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	

STR STEEL	1 / M.T.	15 Km.	Rs 282.91	Rs 282.91
Sub Total				Rs. 119741.91
Total Amount				Rs. 119741.91
Rate				Rs. 119741.90 / M.T.

R.A. NO. : 12 - Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.

INo26-33, PgNo 188 (STATE DSR)	Basic Rate.....			89703.00 / M.T.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
TMT BAR	1 / M.T.	12 Km.	Rs.255.21	Rs.255.21
Sub Total				Rs. 89958.21
Total Amount				Rs. 89958.21
Rate				Rs. 89958.20 / M.T.

R.A. NO. : 13 - Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure including steel centering, formwork, compacting, finishing with minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing and finishing if required complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer. complete, . With fine aggregate (Crushed sand VSI Grade finely washed etc)

INo24-12, PgNo 176 (STATE DSR)	Basic Rate.....			12940.00 / Cu.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.35 / M.T.	7 Km.	Rs.194.05	Rs.67.92
VSI / Natural Sand	0.425 / Cu.Mt.	10 Km.	Rs.345.15	Rs.146.69
Crush Metal -40mm	0.56 / Cu.Mt.	10 Km.	Rs.330.77	Rs.185.23
Crush Metal -20mm	0.22 / Cu.Mt.	10 Km.	Rs.345.15	Rs.75.93
Crush Metal -12mm	0.11 / Cu.Mt.	10 Km.	Rs.345.15	Rs.37.97
Sub Total				Rs. 13453.74
Total Amount				Rs. 13453.74
Rate				Rs. 13453.75 / Cu.Mt.

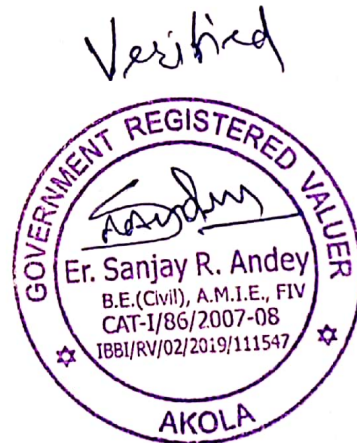
R.A. NO. : 14 - Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc.

complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)

INo24-10 NS, PgNo 176 (STATE DSR)			Basic Rate.....	6595.00 / Cu.Mt.
Add For Lead Charges	Qty. / Unit	Distance	Lead Charge	
CEMENT	0.35 / M.T.	7 Km.	Rs.194.05	Rs.67.92
Crush Sand	0.425 / Cu.Mt.	10 Km.	Rs.345.15	Rs.146.69
Crush Metal -40mm	0.56 / Cu.Mt.	10 Km.	Rs.330.77	Rs.185.23
Crush Metal -20mm	0.22 / Cu.Mt.	10 Km.	Rs.345.15	Rs.75.93
Crush Metal -12mm	0.11 / Cu.Mt.	10 Km.	Rs.345.15	Rs.37.97
Sub Total				Rs. 7108.74
Total Amount				Rs. 7108.74
Rate				Rs. 7108.75 / Cu.Mt.

Junior Engineer
ENGINEER

Junior Engineer
ENGINEER



Lead Statement

Name of Work

**NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY
NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .**

Material	Lead Distance (in Km.)	Total Lead Charges (In Rs.)	Initial Lead (5 (In Rs.)	Net Lead (In Rs.)
STATE REGION DSR				
1 CEMENT	7 Km.	194.05		29.06
2 MILD STEEL	16 Km.	295.95		130.96
3 VSI / Natural Sand	10 Km.	345.15		81.96
4 BRICK	22 Km.	1205.06		673.68
5 TOR STEEL	16 Km.	295.95		130.96
6 Crush Metal -40mm	10 Km.	330.77		78.55
7 Crush Metal -20mm	10 Km.	345.15		81.96
8 Crush Metal -12mm	10 Km.	345.15		81.96
9 Crush Metal -10mm	10 Km.	345.15		81.96
10 Hard Murum	18 Km.	438.40		186.18
11 STR STEEL	15 Km.	282.91		117.92
12 TMT BAR	12 Km.	255.21		90.22
13 Crush Sand	10 Km.	345.15		81.96

Certified that the quarries considered in the lead statement are the nearest and that sufficient quantity of good quality material is available.

Junior Engineer
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Junior Engineer
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MATERIAL CONSUMPTION STATEMENT

Name of Work **NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .**

Sr. No.	Sub Work No / Item	Material / Item Description	Qty.	Rate of Consumption	Qty of Consumption
CEMENT					
1		Providing and laying Cast in situ/Ready Mix cemen	139.872	0.300	41.962
2		Providing and laying Cast in situ/Ready Mix cemen	5.040	0.350	1.764
3		Providing and laying Cast in situ/Ready Mix cemen	52.992	0.413	21.859
4		Providing and laying Cast in situ/Ready Mix cemen	21.712	0.350	7.599
5		Providing second class Burnt Brick masonry with c	32.568	0.079	2.573
6		Providing second class Burnt Brick masonry with c	113.252	0.079	8.947
7		Providing internal cement plaster 6 mm thick in a	430.700	0.003	1.163
8		Providing sand faced plaster externally in cement	430.700	0.013	5.384
9		Providing and laying Cast in situ/Ready Mix cemen	98.280	0.350	34.398
10		Providing and laying in situ /Ready Mix cement co	16.885	0.350	5.910
TOTAL ESTIMATED CONSUMPTION OF CEMENT					131.558 M.T.
MILD STEEL					
TOTAL ESTIMATED CONSUMPTION OF MILD STEEL					0.000 M.T.
VSI / Natural Sand					
1		Providing and laying Cast in situ/Ready Mix cemen	139.872	0.440	61.544
2		Providing and laying Cast in situ/Ready Mix cemen	5.040	0.425	2.142
3		Providing and laying Cast in situ/Ready Mix	52.992	0.425	22.522

Sr. No.	Sub Work No / Item	Material / Item Description	Qty.	Rate of Consumption	Qty of Consumption
		cemen			
4		Providing and laying Cast in situ/Ready Mix cemen	21.712	0.425	9.228
5		Providing second class Burnt Brick masonry with c	32.568	0.320	10.422
6		Providing second class Burnt Brick masonry with c	113.252	0.320	36.241
7		Providing internal cement plaster 6 mm thick in a	430.700	0.008	3.273
8		Providing sand faced plaster externally in cement	430.700	0.033	14.213
		TOTAL ESTIMATED CONSUMPTION OF VSi / Natural Sand			159.584 Cu.Mt.

BRICK

1		Providing second class Burnt Brick masonry with c	32.568	0.475	15.470
2		Providing second class Burnt Brick masonry with c	113.252	0.475	53.795
		TOTAL ESTIMATED CONSUMPTION OF BRICK			69.265 1000 Nos.

TOR STEEL

		TOTAL ESTIMATED CONSUMPTION OF TOR STEEL			0.000 M.T.
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Crush Metal -40mm

1		Providing and laying Cast in situ/Ready Mix cemen	139.872	0.560	78.328
2		Providing and laying Cast in situ/Ready Mix cemen	5.040	0.560	2.822
3		Providing and laying Cast in situ/Ready Mix cemen	98.280	0.560	55.037
		TOTAL ESTIMATED CONSUMPTION OF Crush Metal -40mm			136.188 Cu.Mt.

Crush Metal -20mm

Sr. No.	Sub Work No / Item	Material / Item Description	Qty.	Rate of Consumption	Qty of Consumption
1		Providing and laying Cast in situ/Ready Mix cemen	139.872	0.220	30.772
2		Providing and laying Cast in situ/Ready Mix cemen	5.040	0.220	1.109
3		Providing and laying Cast in situ/Ready Mix cemen	52.992	0.570	30.205
4		Providing and laying Cast in situ/Ready Mix cemen	21.712	0.570	12.376
5		Providing and laying Cast in situ/Ready Mix cemen	98.280	0.220	21.622
6		Providing and laying in situ /Ready Mix cement co	16.885	0.570	9.624
TOTAL ESTIMATED CONSUMPTION OF Crush Metal -20mm					105.708 Cu.Mt.
Crush Metal -12mm					
1		Providing and laying Cast in situ/Ready Mix cemen	139.872	0.110	15.386
2		Providing and laying Cast in situ/Ready Mix cemen	5.040	0.110	0.554
3		Providing and laying Cast in situ/Ready Mix cemen	52.992	0.280	14.838
4		Providing and laying Cast in situ/Ready Mix cemen	21.712	0.280	6.079
5		Providing and laying Cast in situ/Ready Mix cemen	98.280	0.110	10.811
6		Providing and laying in situ /Ready Mix cement co	16.885	0.280	4.728
TOTAL ESTIMATED CONSUMPTION OF Crush Metal -12mm					52.396 Cu.Mt.
Crush Metal -10mm					
TOTAL ESTIMATED CONSUMPTION OF Crush Metal -10mm					0.000 Cu.Mt.
Hard Murum					
TOTAL ESTIMATED CONSUMPTION OF Hard					0.000 Cu.Mt.

Sr. No	Sub Work No / Item	Material / Item Description	Qty.	Rate of Consumption	Qty of Consumption
Murum					

STR STEEL					
1		Providing and fabricating structural steel work i	2.242	1.000	2.242
2		Providing and fabricating structural steel work i	2.634	1.000	2.634
3		Providing structural steel work in trusses, other	1.729	1.000	1.729
TOTAL ESTIMATED CONSUMPTION OF STR STEEL					6.605 M.I.

TMT BAR					
1		Providing and fixing in position TMT - FE - 500 b	7.212	1.000	7.212
TOTAL ESTIMATED CONSUMPTION OF TMT BAR					7.212 M.T.

Crush Sand					
1		Providing and laying Cast in situ/Ready Mix cemen	98.280	0.425	41.769
2		Providing and laying in situ /Ready Mix cement co	16.885	0.425	7.176
TOTAL ESTIMATED CONSUMPTION OF Crush Sand					48.945 Cu.Mt.

Name of Work : NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY
NO 109 AT POST CHANDAI TQ KARANJA DIST WASHIM .

Description	Quantity	Rate/Unit	Amount
1 . NAME OF SUB WORK -- PROPOSED CONSTRUCTION FOR PROCESSING UNIT (DISTILATION UNIT FRACILATION UNIT SPECIMEN TESTING LAB)			
ITEM NO. : 1 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.....(INo21-36 . PgNo 157) (STATE DSR) Item Spec: (Bd.A.10 Page No. 262)	714.000	120.00/Cu.Mt.	85,680.00
ITEM NO. : 2 Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.),with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo24-04, PgNo 175) (STATE DSR) Item Spec: (Bd.E.2 Page No. 288 and B.7 Page No 38) RA NO. : 1	139.872	1616.00/Cu.Mt.	226,033.15
ITEM NO. : 3 Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel),with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo25-17, PgNo 179) (STATE DSR)	52.992	2110.00/Cu.Mt.	111,813.10

Description	Quantity	Rate/Unit	Amount
Item Spec: (Bd.F.3 Page No. 298 and B.7, Page No.38) RA NO. : 2			
ITEM NO. : 4 Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)....(INo25-11 NS, PgNo 178) (STATE DSR) Item Spec: (Bd.F.3 Page No. 298 and B.7, Page No.38) RA NO. : 3	16.885	2110.00/Cu.Mt.	35,627.35
ITEM NO. : 5 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo25-50, PgNo 181) (STATE DSR) Item Spec: (Bd.F.6 Page No. 300 and B.7, Page No.38) RA NO. : 4	21.712	5085.00/Cu.Mt.	110,405.50
ITEM NO. : 6 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.....(INo27-01, PgNo 197) (STATE DSR) Item Spec: (Bd.G. 1 Page No. 313) RA NO. : 5	32.568	1588.00/Cu.Mt.	51,718.00
ITEM NO. : 7 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement	113.252	1705.00/Cu.Mt.	193,094.65

Description	Quantity	Rate/Unit	Amount
<p>mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete.....(INo27-05, PgNo 197) (STATE DSR) Item Spec: (Bd.G.5 Page No. 315)</p> <p>RA NO. : 6</p>			
<p>ITEM NO. : 8 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.....(INo32-11, PgNo 209) (STATE DSR) Item Spec: (Bd.L.7 Page No. 369)</p> <p>RA NO. : 7</p>	430.700	412.00/Sq.Mt.	177,448.40
<p>ITEM NO. : 9 Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.....(INo32-01, PgNo 209) (STATE DSR) Item Spec: (Bd.L.1 Page No. 367)</p> <p>RA NO. : 8</p>	430.700	166.00/Sq.Mt.	71,496.20
<p>ITEM NO. : 10 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.....(INo36-11 , PgNo 227) (STATE DSR) Item Spec: (Bd.P.5 Page No. 413)</p>	435.940	18.00/Sq.Mt.	7,846.90
<p>ITEM NO. : 11 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.....(INo23-01, PgNo 173) (STATE DSR) Item Spec: (Bd.C.2 Page No. 275)</p> <p>RA NO. : 9</p>	2.242	16062.00/M.T.	36,011.00

Description	Quantity	Rate/Unit	Amount
<p>ITEM NO. : 12 Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.....(INo23-02, PgNo 173) (STATE DSR) Item Spec: (Bd.C.3 Page No. 275)</p> <p>RA NO. : 10</p>	2.634	14645.00/M.T.	38,574.95
<p>ITEM NO. : 13 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.....(INo23-04, PgNo 173) (STATE DSR) Item Spec: (Bd.C.8 Page No. 278)</p> <p>RA NO. : 11</p>	1.729	33890.00/M.T.	58,595.80
<p>ITEM NO. : 14 Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 kg/sq.m.).....(INo38-05 , PgNo 233) (STATE DSR) Item Spec: (Bd.R.5, Page No. 453)</p>	979.200	143.00/Sq.Mt.	140,025.60
<p>ITEM NO. : 15 Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 21.30 meter having arch rise as 4.26 meter, arch length 25.13 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter (tolerace + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be</p>	19.000	399.00/Sq.Mt.	7,581.00

Description	Quantity	Rate/Unit	Amount
necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.....(INo38-42 , PgNo 239) (STATE DSR) Item Spec: (As directed by Engineer in charge.)			
ITEM NO. : 16 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear)....(INo39-25 , PgNo 249) (STATE DSR) Item Spec: (Bd.T.55, Page No. 510)	37.200	901.00/Sq.Mt.	33,517.20
ITEM NO. : 17 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete.....(INo39-15 , PgNo 247) (STATE DSR) Item Spec: (Bd-T-42, Page No. 503)	60.320	1496.00/Sq.Mt.	90,238.70
ITEM NO. : 18 Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete.....(INo36-04 , PgNo 227) (STATE DSR) Item Spec: (Bd. P.2 Page No. 412)	435.940	7.00/Sq.Mt.	3,051.60
ITEM NO. : 19 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns,	7.212	11762.00/M.T.	84,827.55

Description	Quantity	Rate/Unit	Amount
canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.....(INo26-33, PgNo 188) (STATE DSR) Item Spec: (Bd.F.17, Page No. 306)			
RA NO. : 12			
ITEM NO. : 20 Excavation for foundation by mechanical means in earth, soils of all types, sand, gravel, soft murum including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. Upto 1.50m lift Normal Rate....(INo12-02A , PgNo 84) (STATE DSR) Item Spec: (BR.3 Page No. 102)	132.480	239.00/Cu.Mt.	31,662.70
ITEM NO. : 21 Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure including steel centering, formwork, compacting, finishing with minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing and finishing if required complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer. complete, . With fine aggregate (Crushed sand VSI Grade finely washed etc)....(INo24-12, PgNo 176) (STATE DSR) Item Spec: (Bd.E.7 Page No 291 and B-7 Page No .38)	5.040	4248.00/Cu.Mt.	21,409.90
RA NO. : 13			
ITEM NO. : 22 Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)....(INo24-10 NS, PgNo 176) (STATE DSR) Item	98.280	1616.00/Cu.Mt.	158,820.50

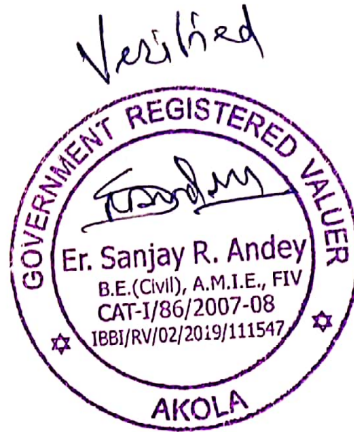
Description	Quantity	Rate/Unit	Amount
Spec: (Bd.E.4 Page No. 289 and B-7, Page No.38) RA NO. : 14			
ITEM NO. : 23 Providing and fixing 50 mm. dia. medium class G.I.pipe gate with wicket gate of approved drawing with all fixtures & fittings in two leaves with strong hold fast embedded in c.c. block at top & bottom with locking arrangement including cutting, bending, making holes and with one coat of primer etc. complete.....(INo23-05 , PgNo 173) (STATE DSR) Item Spec: (As directed by Engineer in charge.)	26.460	3898.00/Sq.Mt.	103,141.10
ITEM NO. : 24 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm 8 guage thick and fixed 75 mm above Ground level on vertical M.S Angle of 40 x 40 x 6 mm size including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M.c/c with iron bar 16 mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm Angles both sides at every corner or bends embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.....(INo46-39 , PgNo 298) (STATE DSR) Item Spec: (As directed by Engineer in charge.)	135.000	329.00/R.Mt.	44,415.00
TOTAL AMOUNT FOR SUB WORK NO. 1			1,923,035.85
Rupees Nineteen Lakh Twenty Three Thousand Thirty Five And Paise Eighty Five Only			
2 . NAME OF SUB WORK -- Testing Charges Estimate			
ITEM NO. : 1 STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)....(INo73-VQC , PgNo 586) (STATE DSR) Item Spec: (As per Standard Specification)	3.000	1595.00/1 Test	4,785.00
ITEM NO. : 2 SOIL / MURUM Sieve Analysis.....(INo29-VQC , PgNo 585) (STATE DSR) Item Spec: (As per Standard Specification)	5.000	690.00/1 Test	3,450.00

Description	Quantity	Rate/Unit	Amount
ITEM NO. : 3 SOIL / MURUM Liquid limit & plastic Limit.....(INo30-VQC , PgNo 585) (STATE DSR) Item Spec: (As per Standard Specification)	5.000	1170.00/1 Test	5,850.00
ITEM NO. : 4 SOIL / MURUM Compaction Test (Proctor Density).....(INo31-VQC , PgNo 585) (STATE DSR) Item Spec: (As per Standard Specification)	5.000	1860.00/1 Test	9,300.00
ITEM NO. : 5 Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness....(INo1-VQC , PgNo 584) (STATE DSR) Item Spec: (As per Standard Specification)	5.000	3770.00/1 Test	18,850.00
ITEM NO. : 6 BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity. Impact Value Crushing Value.....(INo2-VQC , PgNo 584) (STATE DSR) Item Spec: (As per Standard Specification)	3.000	2600.00/1 Test	7,800.00
ITEM NO. : 7 BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).....(INo13-VQC , PgNo 584) (STATE DSR) Item Spec: (As per Standard Specification)	3.000	2175.00/1 Test	6,525.00
ITEM NO. : 8 CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes).....(INo19-VQC , PgNo 584) (STATE DSR) Item Spec: (As per Standard Specification)	4.000	690.00/1 Test	2,760.00
ITEM NO. : 9 CONCRETE Concrete Mix Design (With all Tests on basic materials)....(INo20-VQC , PgNo 584) (STATE DSR) Item Spec: (As per Standard Specification)	3.000	13755.00/1 Test	41,265.00

Description	Quantity	Rate/Unit	Amount
TOTAL AMOUNT FOR SUB WORK NO. 2 Rupees One Lakh Five Hundred And Eighty Five Only			100,585.00

Junior Engineer
ENGINEER

Junior Engineer
ENGINEER



Name of Work NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY NO 109 AT POST CHANDAI TQ
KARANJA DIST WASHIM.

SCHEDULE - " A "

Schedule showing (approximately) the materials to be supplied from Public Works Divisional Stores for work contracted to be executed and Preliminary and Ancillary works and the rates at which they are to be charged for.....

Sr. No.	Material Description	Quantity	Unit	Rate at which material will be charged to Contractor		Place of Delivery
				In figure	In Words	
1	2	3	4	5	6	7
	-----NIL-----	-----	-----	-----	-----	-----

Contractor

No of Corrections
1 of 1

Executive Engineer

Name of Work

NARDUS AROMATIC OIL PRODUCER COMPANY LIMITED ON SURVEY NO 100 AT POST CHANDAI TQ KARANJA DIST WASHIM.

Schedule - "B & C"

Memorandum showing the Item of Work to be carried out by Contractor..

Quantity	Item Description	Estimated Rates		Unit	Total Amount according to estimated quantities	Specification	Add. Spec.
		In Fig.	In Words				
1	2	3	4	5	6	7	8
714.000 Meter	Cubic Item No. 1: Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	120.00	Rupees One Hundred Twenty Only	One Cubic Meter	85680.00	Bd.A.10 Page No. 262	
139.872 Meter	Cubic Item No. 2: Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic	6868.20	Rupees Six Thousand Eight Hundred Sixty Eight And Paise Twenty Only	One Cubic Meter	960668.90	Bd.E.2 Page No. 288 and B.7 Page No 38	

Contractor

No of Corrections

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Executive Engineer

micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

52.992 Cubic Meter Item No. 3: Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

8082.10 Rupees Eight Thousand Eighty Two And Paise Ten Only 428286.65 One Cubic Meter Bd.F.3 Page No. 298 and B.7, Page No.38

16.885 Cubic Item No. 4: Providing and laying in situ 7486.00 Rupees Seven One 126401.10 Bd.F.3 Page

Executive Engineer

No of Corrections

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Contractor

Cubic
Meter

Thousand Four Hundred
Eighty Six Only

/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)

Bd.F.6 Page
No. 300 and
B.7, Page
No.38

277414.20

One
Cubic
Meter

Rupees Twelve
Thousand Seven
Hundred Seventy Seven
Only

12777.00

Item No. 5: Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc.

Executive Engineer

No of Corrections

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Contractor

complete. With fine aggregate (Crushed sand VSI Grade finely washed etc)

32.568 Cubic Meter
 Item No. 6: Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.
 8453.20 Rupees Eight Thousand Four Hundred Fifty Three And Paise Twenty Only
 275303.80 One Cubic Meter
 Bd.G. 1 Page No. 313

113.252 Cubic Meter
 Item No. 7: Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete
 8692.20 Rupees Eight Thousand Six Hundred Ninty Two And Paise Twenty Only
 984409.05 One Cubic Meter
 Bd.G.5 Page No. 315

430.700 Square Meter
 Item No. 8: Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced
 652.80 Rupees Six Hundred Fifty Two And Paise Eighty Only
 281160.95 One Square Meter
 Bd.L.7 Page No. 369

Contractor

No of Corrections

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Executive Engineer

treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.

430.700 Square Meter Item No. 9: Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete. 206.15 Rupees Two Hundred Six And Paise Fifteen Only 88788.80 One Square Meter Bd.L.1 Page No. 367

435.940 Square Meter Item No. 10: Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete. 48.00 Rupees Forty Eight Only 20925.10 One Square Meter Bd.P.5 Page No. 413

2.242 Metric Tonne Item No. 11: Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats 102126.90 Rupees One Lakh Two Thousand One Hundred Twenty Six And Paise Ninty Only 228968.50 One Metric Tonne Bd.C.2 Page No. 275

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of oil painting of approved quality and shade etc. complete.

2.634 Metric Tonne Item No. 12: Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. Bd.C.3 Page No. 275 258242.35 One Metric Tonne

98041.90 Rupees Ninty Eight Thousand Forty One And Paise Ninty Only

One Metric Tonne

Rupees Ninty Eight Thousand Forty One And Paise Ninty Only

98041.90

1.729 Metric Tonne Item No. 13: Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete. Bd.C.8 Page No. 278 207033.75 One Metric Tonne

119741.90 Rupees One Lakh Nineteen Thousand Seven Hundred Forty One And Paise Ninty Only

119741.90

One Metric Tonne

Rupees One Lakh Nineteen Thousand Seven Hundred Forty One And Paise Ninty Only

119741.90

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979.200 Square Meter Item No. 14: Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 kg/sq.m.).

1139.00 Rupees One Thousand One Hundred Thirty Nine Only 1115308.80 Bd.R.5, Page No. 453

One Square Meter

19.000 Square Meter Item No. 15: Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 21.30 meter having arch rise as 4.26 meter, arch length 25.13 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter (tolerance + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyester , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick

2357.00 Rupees Two Thousand Three Hundred Fifty Seven Only 44783.00 As directed by Engineer in charge.

One Square Meter

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polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.

37.200 SquareItem No. 16: Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear)

5308.00 Rupees Five Thousand Three Hundred Eight Only 197457.60 One Square Meter Bd.T.55, Page No. 510

60.320 SquareItem No. 17: Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut

4804.00 Rupees Four Thousand Eight Hundred Four Only 289777.30 One Square Meter Bd-T-42, Page No. 503

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teak wood 25 mm thick style and rails with plain / obscured glass panels as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete.

435.940 Square Meter Item No. 18: Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete. 10.00 Rupees Ten Only 4359.40 Bd. P.2 Page No. 412

7.212 Metric Tonne Item No. 19: Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardsls, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. 89958.20 Rupees Eighty Nine Thousand Nine Hundred Fifty Eight And Paise Twenty Only 648778.55 Bd.F.17, Page No. 306

132.480 Cubic Meter Item No. 20: Excavation for foundation by mechanical means in earth, soils of all 239.00 Rupees Two Hundred Thirty Nine Only 31662.70 BR.3 Page No. 102

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types, sand, gravel, soft murum including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. Upto 1.50m lift Normal Rate

Meter

5.040 Cubic Meter Item No. 21: Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure including steel centering, formwork, compacting, finishing with minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing and finishing if required complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer. complete, . With fine aggregate (Crushed sand VSI Grade finely washed etc)

67806.90

One Cubic Meter

Rupees Thirteen Thousand Four Hundred Fifty Three And Paise Seventy Five Only

13453.75

98.280 Cubic Meter Item No. 22: Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them

698647.95

One Cubic Meter

Rupees Seven Thousand One Hundred Eight And Paise Seventy Five Only

7108.75

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Bd.E.7 Page No 291 and B-7 Page No .38

if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC WITHOUT SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade finely washed)

26.460 Square Meter	Item No. 23: Providing and fixing 50 mm. dia. medium class G.I. pipe gate with wicket gate of approved drawing with all fixtures & fittings in two leaves with strong hold fast embedded in c.c. block at top & bottom with locking arrangement including cutting, bending, making holes and with one coat of primer etc. complete.	7257.00	Rupees Seven Thousand Two Hundred Fifty Seven Only	One Square Meter	192020.20	As directed by Engineer in charge.
135.000 Running Meter	Item No. 24: Providing and erecting Meterchain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm 8 gauge thick and fixed 75 mm above Ground level on vertical M.S Angle of 40 x 40 x	2539.00	Rupees Two Thousand Five Hundred Thirty Nine Only	One Running Meter	342765.00	As directed by Engineer in charge.

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6 mm size including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M.c/c with iron bar 16 mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm Angles both sides at every corner or bends embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.

3.000 One Test	Item No. 25: STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1595.00	Rupees One Thousand Five Hundred Ninty Five Only	One One Test	4785.00	As per Standard Specification
5.000 One Test	Item No. 26: SOIL / MURUM Sieve Analysis.	690.00	Rupees Six Hundred Ninty Only	One One Test	3450.00	As per Standard Specification
5.000 One Test	Item No. 27: SOIL / MURUM Liquid limit & plastic Limit.	1170.00	Rupees One Thousand One Hundred Seventy Only	One One Test	5850.00	As per Standard Specification

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5.000 One Test	Item No. 28: SOIL / MURUM Compaction Test (Proctor Density).	1860.00	Rupees One Thousand Eight Hundred Sixty Only	One One Test	9300.00	As per Standard Specification
5.000 One Test	Item No. 29: Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness	3770.00	Rupees Three Thousand Seven Hundred Seventy Only	One One Test	18850.00	As per Standard Specification
3.000 One Test	Item No. 30: BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity. Impact Value Crushing Value.	2600.00	Rupees Two Thousand Six Hundred Only	One One Test	7800.00	As per Standard Specification
3.000 One Test	Item No. 31: BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	2175.00	Rupees Two Thousand One Hundred Seventy Five Only	One One Test	6525.00	As per Standard Specification
4.000 One Test	Item No. 32: CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes).	690.00	Rupees Six Hundred Ninty Only	One One Test	2760.00	As per Standard Specification
3.000 One Test	Item No. 33: CONCRETE Concrete Mix Design (With all Tests on basic materials)	13755.00	Rupees Thirteen Thousand Seven Hundred Fifty Five Only	One One Test	41265.00	As per Standard Specification

Contractor

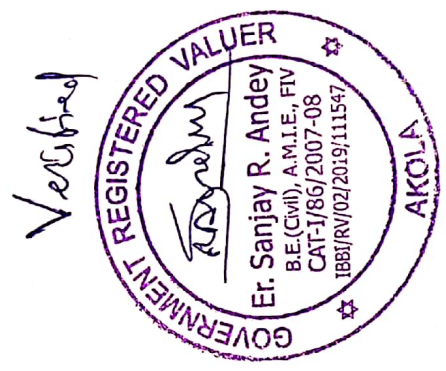
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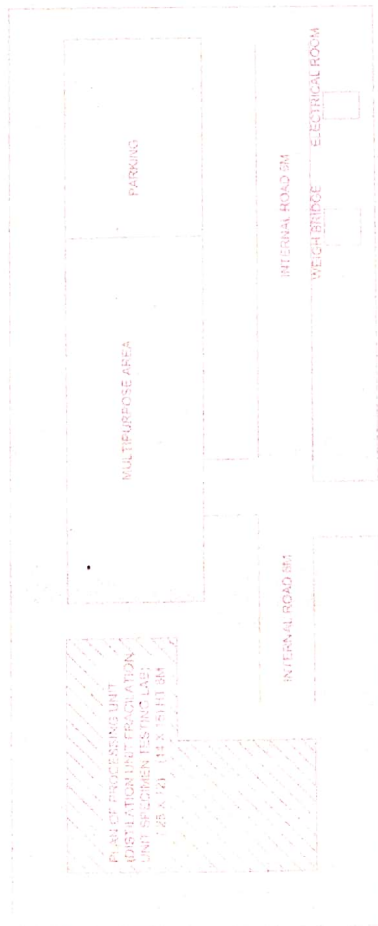
Executive Engineer

TOTAL AMOUNT 7957235.55
Say 7957236.00

TOTAL AMOUNT IN WORDS :
Rupees Seventy Nine Lakh Fifty Seven Thousand Two Hundred Thirty Six Only



Contractor
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AREA WISE CALCULATION OF THE SHED WITH CAPACITY

NAME	AREA SQMT
PURIFICATION UNIT	5.10 SQMT
DISTILLATION UNIT (SPECIMEN TESTING LAB)	



PROPOSED CONSTRUCTION OF NARDIUS AROMATIC OIL PRODUCER COMPANY LIMITED, AT PO CANDAITO KARNJA DIST WASHIM 444105



OFFICE OF ARCHITECT	
NAME	DR. S. S. K. K. K.
DESIGN	DR. S. S. K. K. K.
DATE	10/10/2023
SCALE	1:100
PROJECT NO.	100/2023
CLIENT	DR. S. S. K. K. K.
ADDRESS	DR. S. S. K. K. K.
CONTACT NO.	DR. S. S. K. K. K.
EMAIL	DR. S. S. K. K. K.
WEBSITE	DR. S. S. K. K. K.
PHONE	DR. S. S. K. K. K.
FAX	DR. S. S. K. K. K.
MOBILE	DR. S. S. K. K. K.
WHATSAPP	DR. S. S. K. K. K.
TELEGRAM	DR. S. S. K. K. K.
FACEBOOK	DR. S. S. K. K. K.
LINKEDIN	DR. S. S. K. K. K.
INSTAGRAM	DR. S. S. K. K. K.
TWITTER	DR. S. S. K. K. K.
YOUTUBE	DR. S. S. K. K. K.
REDDIT	DR. S. S. K. K. K.
DISCORD	DR. S. S. K. K. K.
STEAM	DR. S. S. K. K. K.
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SKYPE	DR. S. S. K. K. K.

OWNERS SIGN: _____ SANCTIONING AUTHORITY: _____