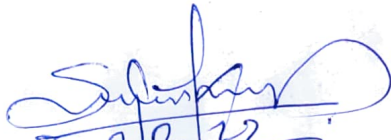
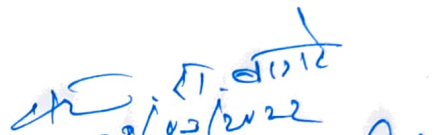
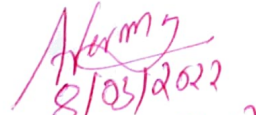


BOQ Summary Details	
Tender Title: Construction of Domestic Air Cargo Terminal Building, Center for Perishable Cargo and Other associated works at DABH Airport, Indore.	
Tender ID: 2022_AAI_103571_1	

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Shri Balaji Construction	97634880.00	L1
	2	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED	104793286.00	L2
	3	SGB INFRA LTD	110019465.00	L3
	4	EPACK POLYMERS PRIVATE LIMITED	112947142.00	L4


8/3/22
 A.M. (S)


 08/03/2022
 A.M. (S) - (S)


 8/03/2022
 (A.M. (S))

Government eProcurement System
Created By: Sanjai Kumar
Created Date/Time: 08-Mar-2022 01:04 PM
Tender Title: Construction of Domestic Air Cargo Terminal Building, Center for Perishable Cargo and Other associated works at DABH Airport, Indore.
Tender ID: 2022_AA_103571_1

Tender Inviting Authority: <AGM (Engg.-Civil)-II O/o of Airport Director DABH Airport, Indore >
Name of Work: <Construction of Domestic Air Cargo Terminal Building, Center for Perishable Cargo and Other associated works at DABH Airport, Indore >
Contract No: <0731-2626626, 0731-2626660>

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	EPACK POLYMERS PRIVATE LIMITED(GSTN-09AAAACE6175D3Z2D)	SGB INFRA LTD(GSTN-08AAJCS2396D1Z6)	Shri Balaji Construction(GSTN-NA)	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED(GSTN-AAJCS2396D1Z6)				
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	Pre-Engineered Building Works											
1.01	Design, Supply and Installation at site of Pre Engineered, Pre fabricated Building for Domestic Air Cargo Terminal and Center for Perishable Cargo. The Works include following packages -	1.00	Job		93676556.00	93676556.00	92500000.00	92500000.00	76121400.00	76121400.00	89253000.00	89253000.00
1.02	Design package All design works including but not limited to concept/ schematic design,detailed design, architectural drawings, structural design, working drawings and shop drawings and as built drawings of Works Item Involves Preparation of Architectural Plan with section and elevation along with 3 D views, Civil Foundation Design and Structure Design, Internal and external Finishing Drawings and Detailing, Air Conditioning Drawing, Electrical Systems, Low side and High side with design of all LT and HT panels, Illumination with Lux Level Calculation, Switch sockets, point wiring, etc. Water Supply System, Design of OHT, etc, Sewerage Drainage & RWH System, Fire Protection System, Fire Alarm System, Internal Signage system and Design Approval From IIT/NIT/Govt. Engg College											
1.03	Site Survey package All preliminary and/or general requirements for Works including topographical and geo- technical investigation, site establishment, site survey etc. Land Survey, Contouring, Soil Investigation and Testing Site Security Site Testings and Third Party LAB Testings Setting up Site Infrastructure i.e Site Office, LAB, Godown, Store, Barricade, Sign Boards etc.											

L1 Amount	L1 Vendor
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76121400.00	Shri Balaji Construction
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Sanjai Kumar
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1.04	Foundation and Civil Works Civil works till the building lines - All Foundation work upto plinth level of cargo terminal building i/c RCC (1:1.5:3 in plinth slab including removal of existing soil and 0.50 mtr back filling with moorum/ good earth, including all earth work removal of all excavated soil from site to 500 meter distance within AAI premises including levelling and dressing complete, Brick Work in 1:6 cement mortar, 12 mm plaster on both side (1:4 cement mortar) SS 304 grade railing in stair case, ramp, complete as per approved Drawing duly vetted by IIT or equivalent Govt college & Preengineered Structural Steel, Roofing, Internal Wall Partitions Excavation/Earth Work as per CPWD Specification. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. Extra for every additional lift 1.5 m or part thereof in excavation / banking excavated or stacked materials. Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared. Pre-construction Anti-termite treatment as per CPWD
1.05	Main structure All primary members (Columns & Rafters) would be fabricated from Plates having minimum yield strength of 345 MPa and will conform to IS. 2062 / ASTM-A-572-12 Grade 50 Standard. The primary members would be fabricated by continuous shop automated welding using submerged arc welding. Primary members fabricated from plate will have flanges and webs joined both sides by a continuous welding process. All primary members shall have one coat of red oxide primer and two coats of final finish enamel based paint with Grey Colour. The secondary members consist of Z-Purlins, eave struts and Girts shall be 275 GSM Galvanized or painted Cold formed steel having minimum yield strength of 345 MPa and would conform to ASTM A 1011. Anchor bolts would be of 4.6 Grade steel bolts as per approved design. All Primary Bolted connections will be furnished with High Strength Bolts conforming to Specifications of Gr. 8.8, IS 3757 & 1367 or ASTM-A325 All Secondary Bolted connections would be furnished with machine bolts conforming to the Specifications of Gr. 4.6, IS: 2367 & 1363 or ASTM-A307 All shop connections would be welded using Submerged Arc Welding process and welding will be in accordance with American Standards. All Primary members would be cleaned by wire brushing to remove dirt, grease, oil
1.06	Gutter Supply and installation of Gutter Made up of PPGI Sheet as per approved drawing along with adequate size PVC down take pipes including all required clamps, bends hardware and accessories

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1.07	Roofing Cargo Building Providing and fixing of 0.55 mm BMT SMP color coated Galvalume Standing Seam site profiled sheet having profile depth of 60 mm at 450 mm pitch as an top sheet and 0.45 mm BMT SMP color coated Galvalume profiled sheet having profile depth of 28-30 mm at 195-200 mm pitch (backed with non woven acoustic tissue paper) as bottom sheet with sandwiched in between Glasswool slab insulation of 24 kg/m3 density and 75 mm thickness. A vapour barrier of 400 gauge polythene sheet over insulation and GI 'Z' spacer (50 x 60 x 50 x 1.6mm) to create cavity for fixing of insulation in between top and bottom sheet shall be used.
1.08	External Walls External Wall up to 3m Height – The external walls shall be constructed of 80 mm thick Glasswool insulation & density of 24 + 2 kg/m3 laminated with Pre-coated GI sheet outside and inside of walls. The top and bottom sheet shall be AZ 150 with min 550 Mpa tensile strength of 0.8mm TCT. The color of the top side sheet will RAL 9002 of 20-30 microns Pure Polyester coating over 4-7 microns Primer on the top side and 5 microns of backer coat over the primer on the bottom side of the sheet. These panels are factory assembled in continuous manufacturing line into a complete unit to eliminate the necessity of field assembly of units prior to installation. The edges of the panels shall be shaped to provide a continuous engagement for the full height of the wall / partition, providing a positive sound seal and permitting roll formed slip joint with unique locking arrangement in the shape of tongue and groove individually from each side (fascia) of the panels. The effective cover width of the panel shall be of 1170 mm and length of the panels shall be to suit as per site or as per transportable length.
1.09	Internal Walls Internal partition Walls – The room walls shall be constructed of 80 mm thick Glasswool insulation & density of 24 + 2 kg/m3 laminated with Pre-coated GI sheet outside and inside of walls. The top and bottom sheet shall be AZ 150 with min 550 Mpa tensile strength of 0.8mm TCT. The color of the top side sheet will RAL 9002 of 20-30 microns Pure Polyester coating over 4-7 microns Primer on the top side and 5 microns of backer coat over the primer on the bottom side of the sheet. These panels are factory assembled in continuous manufacturing line into a complete unit to eliminate the necessity of field assembly of units prior to installation. The edges of the panels shall be shaped to provide a continuous engagement for the full height of the wall / partition, providing a positive sound seal and permitting roll formed slip joint with unique locking arrangement in the shape of tongue and groove individually from each side (fascia) of the panels. The effective cover width of the panel shall be of 1170 mm and length of the panels shall be to suit as per site or as per transportable length.


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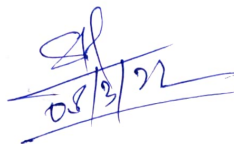
1.10	Aluminum Frame for doors and Windows Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)
1.11	Door Shutter For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)
1.12	Door Glass Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) With float glass panes of 5.0 mm thickness
1.13	Rolling Shutter 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 a) 80x125 mm M.S. laths with 1.25 mm thick top cover

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1.14	Water Proofing in Wet Areas Water Proofing in Wet Areas Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with nonwoven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane 3 mm thick Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures
1.15	Deck Sheet for Mezzanine Floor : Providing and fixing first floor flooring consist of 0.8 mm thick galvanized steel deck sheet conforming to IS 277-1992 used as permanent shuttering over which MS wire mesh 3mm laid at 100x100 mm gnd including edge trim covered with concrete. This metal deck will be supported on structural steel beam with shear studs (Structural steel like Beam, column, joists etc. & concrete of different grade as per design will be paid separately)
1.16	Floor Tiles : Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. a) Size of Tile 600x600 mm
1.17	Painting : External and Internal Painting with two coats of acrylic emulsion paint. Having VOC less than 50 grams/litre.


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1.22	Toilet Cubical Partition Providing & fixing of modular toilet cubicles (Sturdo Classique- Evergreen series of Greenlam Industries or Titan 12 mm Box-up series of Merino or T-Line or approved equivalent) consisting of high pressure 12 mm thick compact laminated board as per IS 2046 (Indian Standards) and as per fire retardant BS-476/97 standards with phenolic core panels for partitions of intermediate divider, doors and pilasters (. The cubicle shall have dimensions of 1550 mm depth x 1000 mm width x 2100 mm height with a door size of minimum 600 mm(W) x 1905mm(H), head rail on top of panels and panels shall be fixed on the floor with a clearance of maximum 150 mm using stainless steel satin finish adjustable legs screwed to the floor) including providing and finishing stainless steel (SS) lock set, SS door knob, SS gravity self closing hinge, SS coat hook with door stopper, SS U channel, SS head rail, SS adjustable foot, SS tabular holder, SS head rail wall bracket, SS head rail corner connection and SS noise reducing tape, etc. (all SS accessories shall be of Grade 304) as per direction of Engineer-In-charge.
1.23	Toilet Fittings : Complete Internal Plumbing and Sanitary fittings for Ladies/Gents Toilet Glass Mirror – Large size mirror 200 mm above counters to be provided with washbasin Floor Tiles Anti-Skid Vitrified 600 x 600 mm Wall/Dado/Skirting Tiles 300 x 300 Vitrified Tiles "Sanitary fittings (All toilets fixtures to be in off white colour, all uninals to be half stall and all EWC sheets to be wall hung) " "CP fittings (All exposed fitting in toilets to be chrome plated)/Angle Valve/ Bottle Trap/Flush Valve/Basin Mixer/Single Lever Sink Mixer" Internal – CPVC pipe Liquid Soap Dispenser/Jumbo Roll Tissue Toilet Dispenser/ SS Grab Bar
1.24	Internal Electrical Internal Electrical Works including LT Panels, Conducting, wiring, switch socket, fan Lights, Earthing and Lighting Arrestor etc. complete as per specifications mentioned in the tender.
1.25	Fire Detection and Alarm System Addressable minimum 04 loop fire alarm panel with smoke/multi detector MCP Fire alarm is notified through strobes in public areas and speakers cum strobes in service areas control module for interlocking response indicator Complete as per specification mentioned in tender


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1.26	Fire Fighting System Portable fire extinguisher for all the area as per latest NBC/CPWD norms. Details specification are as mentioned in tender. The scope of work covers fabrication design, detailing, supply, erection, painting, testing, commissioning, and handing over of complete Fire Protection System (Fire Hydrant and Fire Sprinkler) envisaged for all the buildings covered under the current phase of the project in line with stipulations of National Building Code – 2016. Providing, laying, testing & commissioning of 'A2AU' class Carbon Steel Piping conforming to IS 106 grade B as per PDR specification PDRP4200-8230-SP-1001 Rev-A2 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and with industrial grade painting to not less than 225 micron as per PDR Painting specification PDRP4200-8440-SP-1006. Valves, Fire Hydrants, and Making Connection to supply system, Pipe Mains Laterals, Branches, Valves Hangers and Appurtenances. Hose Reels, Rubberized fabric lined hose pipes, Hose cabinets & Landing Valves. 04 nos. F.H.C inside terminal building, external yard hydrant around the building and as per requirement latest NBC CPWD norms. 04 way
1.27	CPC Building Supply and Installation of Center for Perishable Cargo building of size 20 m x 20 m 5m including Foundation works, Structural Works, Internal Electrical, Flooring, Cold room and other finishing works in all respect.
1.28	Note :- 1. The rate to be quoted considering complete work as per the Drawings attached with the tender in Page no. 287 to 291. However the drawings are for general guidance only. The actual work to be executed as per drawing vetted by IIT or Govt. Engg. College before execution. 2. All the RCC Work to be done in 1:1.5:3 (1 Cement : 1.5 Sand : 3 C. Agg) 3. RCC Slab of 200mm at plinth level & Plinth beam of 300x300 mm all around. 4. Internal wall of CPC will be of brick work with 190mm CD 35 bricks with cement mortar of 1:6 (1 cement : 6 Coarse Sand) 5. Staircase in Cargo terminal with RCC and covered with 18mm granite. 6. Railing of Staircase will be of S.S 304 grade. 7. First Floor aluminium partition covered with 6mm HDP both side. 8. Both the canopy made with M.S structure will covered with tensil Clothing. 9. Steel Racks in Cargo terminal building and External Development i/c Road, B/wall, Enclosure, Gate, Morcha, Culvert are not included in Item No. 1 (MR 1). 10. The payment of This item shall be made as per the Yardstick fixed by EIC during the execution of Work. 11. The Final Vetted Drawings submitted by agency shall be approved by T/S Authority with recommendation of EIC before Execution.

Handwritten signature and date: 26/6/20

2.00	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	2500.00	cum
3.00	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 upto 50 m and lift upto 1.5 m	574.00	cum
4.00	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	3.00	cum
5.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	72.00	cum
6.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level "1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	36.00	cum
7.00	Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns	142.00	sqm
8.00	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 12.5mm nominal size)	9.00	sqm
9.00	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	9.00	sqm
10.00	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	1.00	cum
11.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Foundations, footings, bases of columns, etc. for mass concrete	155.00	sqm

160.00	400000.00	170.00	425000.00	150.00	375000.00	160.00	400000.00
182.00	104468.00	150.00	86100.00	200.00	114800.00	160.00	91840.00
1197.00	3591.00	2500.00	7500.00	500.00	1500.00	1200.00	3600.00
5365.00	386280.00	4600.00	331200.00	6000.00	432000.00	6200.00	446400.00
4738.00	170568.00	4100.00	147600.00	5000.00	180000.00	5800.00	208800.00
342.00	48564.00	400.00	56800.00	400.00	56800.00	280.00	39760.00
306.00	2754.00	250.00	2250.00	400.00	3600.00	3286.00	29574.00
175.00	1575.00	70.00	630.00	400.00	3600.00	822.00	7398.00
5832.00	5832.00	5000.00	5000.00	8000.00	8000.00	7900.00	7900.00
342.00	53010.00	400.00	62000.00	400.00	62000.00	220.00	34100.00

375000.00	Shri Balaji Construction
86100.00	SGB INFRA LTD
1500.00	Shri Balaji Construction
331200.00	SGB INFRA LTD
147600.00	SGB INFRA LTD
39760.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED
2250.00	SGB INFRA LTD
630.00	SGB INFRA LTD
5000.00	SGB INFRA LTD
34100.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED

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12.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Suspended floors, roofs, landings, balconies and access platform	9.00	sqm
13.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Lintels, beams, plinth beams, girders, bressumers and cantilevers	1650.00	sqm
14.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Columns, Pillars, Piers, Abutments, Posts and Struts	234.00	sqm
15.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more	5900.00	kg
16.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more	1766.00	kg
17.00	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note - Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately.) All works upto plinth level	84.00	cum
18.00	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note - Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately.) All works above plinth level upto floor V level	24.00	cum

547.00	4923.00	425.00	3825.00	400.00	3600.00	220.00	1980.00
502.00	828300.00	425.00	701250.00	400.00	660000.00	220.00	363000.00
593.00	138762.00	425.00	99450.00	400.00	93600.00	220.00	51480.00
79.00	466100.00	93.00	548700.00	90.00	531000.00	82.00	483800.00
83.00	146578.00	95.00	167770.00	90.00	158940.00	85.00	150110.00
5832.00	489888.00	5000.00	420000.00	6500.00	546000.00	6900.00	579600.00
6100.00	146400.00	5400.00	129600.00	7000.00	168000.00	7200.00	172800.00

1980.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
363000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
51480.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
466100.00	EPACK POLYMERS PRIVATE LIMITED
146578.00	EPACK POLYMERS PRIVATE LIMITED
420000.00	SGB INFRA LTD
129600.00	SGB INFRA LTD

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19.00	Add for using extra cement in the items of design mix over and above the specified cement content therein	54.00	quintal
20.00	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	11938.00	kg
21.00	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete Hot finished welded type tubes	5500.00	kg
22.00	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	4500.00	kg
23.00	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS - 15592 Type A, including jointing with seal ring conforming to IS - 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm diameter	4.00	metre
24.00	Providing and fixing precast galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS - 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5 x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and including cutting to size and shape wherever required	149.00	sqm
25.00	12 mm cement plaster of mix 1:6 (1 cement: 6 fine sand)	296.00	sqm
26.00	15 mm cement plaster 1:6 (1 cement: 6 fine sand)	310.00	sqm

1026.00	55404.00	770.00	41580.00	900.00	48600.00	600.00	32400.00
130.00	1551940.00	115.00	1372870.00	120.00	1432560.00	130.00	1551940.00
130.00	715000.00	115.00	632500.00	120.00	660000.00	130.00	715000.00
130.00	585000.00	115.00	517500.00	120.00	540000.00	130.00	585000.00
547.00	2188.00	700.00	2800.00	800.00	3200.00	800.00	3200.00
820.00	122180.00	700.00	104300.00	700.00	104300.00	900.00	134100.00
251.00	74296.00	300.00	88800.00	250.00	74000.00	200.00	59200.00
296.00	91760.00	325.00	100750.00	350.00	108500.00	200.00	62000.00

32400.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
1372870.00	SGB INFRA LTD
632500.00	SGB INFRA LTD
517500.00	SGB INFRA LTD
2188.00	EPACK POLYMERS PRIVATE LIMITED
104300.00	Shri Balaji Constructio n, SGB INFRA LTD
59200.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
62000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED

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Amu

27.00	6 mm cement plaster of mix 1:3 (1 cement 3 fine sand)	504.00	sqm
28.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work	2500.00	sqm
29.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacture, over the plastered wall surface to prepare the surface even and smooth complete	36.00	sqm
30.00	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour Two coats	757.00	sqm
31.00	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour Two coats	11.00	sqm
32.00	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	732.00	sqm
33.00	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge	5.00	cum
34.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	10.00	cum
35.00	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in Channels, angles, tees and flats	50.00	kg
36.00	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in- charge, beyond 50 m initial lead, for all leads including all lifts involved	1926.00	cum
37.00	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia etc. complete	593.00	kg

319.00	160776.00	250.00	126000.00	200.00	100800.00	150.00	75600.00
97.00	242500.00	200.00	500000.00	110.00	275000.00	200.00	500000.00
86.00	3096.00	170.00	6120.00	90.00	3240.00	110.00	3960.00
251.00	190007.00	180.00	136260.00	160.00	121120.00	150.00	113550.00
257.00	2827.00	180.00	1980.00	160.00	1760.00	190.00	2090.00
217.00	158844.00	90.00	65880.00	100.00	73200.00	160.00	117120.00
3420.00	17100.00	1000.00	5000.00	1500.00	7500.00	800.00	4000.00
1824.00	18240.00	500.00	5000.00	1500.00	15000.00	200.00	2000.00
17.00	850.00	25.00	1250.00	30.00	1500.00	12.00	600.00
257.00	494982.00	100.00	192600.00	1000.00	1926000.00	50.00	96300.00
131.00	77683.00	100.00	59300.00	120.00	71160.00	110.00	65230.00

75600.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
242500.00	EPACK POLYMERS PRIVATE LIMITED
3096.00	EPACK POLYMERS PRIVATE LIMITED
113550.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
1760.00	Shri Balaji Constructio n
65880.00	SGB INFRA LTD
4000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
2000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
600.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
96300.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
59300.00	SGB INFRA LTD

Handwritten signature and date: 15/05

38.00	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note - Cement content considered in M-30 is @ 340 kg/cum Excess/ less cement used as per design mix is payable/ recoverable separately. Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	360.00	cum
39.00	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron "Y" shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq mm with tape (0.52 mm thick) and weight 43.478 gnu/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	276.00	metre
40.00	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	14.00	cum
41.00	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	201.00	Sqm

6700.00	2412000.00	5700.00	2052000.00	6500.00	2340000.00	7600.00	2736000.00
650.00	179400.00	250.00	69000.00	600.00	165600.00	240.00	66240.00
8935.00	125090.00	5500.00	77000.00	7000.00	98000.00	8200.00	114800.00
2565.00	515565.00	600.00	120600.00	500.00	100500.00	160.00	32160.00

2052000.00	SGB INFRA LTD
66240.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED
77000.00	SGB INFRA LTD
32160.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED

88/3/22

42.00	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver/finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	338.00	cum
43.00	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design. 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	each
44.00	PIL NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of (1:2). 300 mm dia R.C.C. pipe	50.00	Mtr
45.00	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design. 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	Each
46.00	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	Mtr
47.00	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design. With 20x20 mm square bar	30.00	each

1891.00	639158.00	3600.00	1216800.00	4000.00	1352000.00	2800.00	946400.00
2850.00	8550.00	2300.00	6900.00	10000.00	30000.00	8000.00	24000.00
912.00	45600.00	1100.00	55000.00	1500.00	75000.00	800.00	40000.00
20520.00	61560.00	27000.00	81000.00	20000.00	60000.00	15000.00	45000.00
6156.00	18468.00	1200.00	3600.00	4000.00	12000.00	5600.00	16800.00
627.00	18810.00	100.00	3000.00	5000.00	150000.00	422.00	12660.00

639158.00	EPACK POLYMERS PRIVATE LIMITED
6900.00	SGB INFRA LTD
40000.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED
45000.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED
3600.00	SGB INFRA LTD
3000.00	SGB INFRA LTD

16/5/18
H/O

48.00	Making connection of drain or sewer line with existing manhole and making good the walls, floors with C.C. (1:2:4) mix. For pipes 100 to 300 mm diameter	3.00	each
49.00	Brick work with local available size flyash bricks of class designation 35 in superstructure above plinth level in . Cement mortar 1:6 (1 Cement : 6 Coarse sand)	77.00	cum
50.00	Brick work with local available size flyash bricks of class designation 35 in superstructure above plinth level upto floor V level in all shapes and sizes in . Cement mortar 1:6 (1 cement : 6 coarse sand)	30.00	cum
51.00	Construction of embankment with Good earth/ Moorum brought out from approved quarry outside the airport premises. The complete operation will include spreading the Moorum with dozer, dressing, levelling, providing camber, grading with motor grader and consolidating with vibratory roller 8-10 tonne capacity including making good the undulation etc. as per technical specifications and drawings complete and directions of Engineer-in-Charge. (Cost includes all leads, taxes, royalty and operations)	923.00	cum
52.00	Providing & fixing PVC pipe of 75mm dia metre and 250mm length, after making necessary opening in wall, for weep holes as per direction & satisfaction of E.I.C.	250.00	each
53.00	Design, Supply, Installation, testing and commissioning of following capacity walk in cold room with cooling system working on CFC free refrigerant: complete in all respect for cold room of size 8.00 Mtr. x 10.00 Mtr x 2.74 Mtr (H) for perishable products including Evaporative unit with matching condensing unit, Blower, Coil, Expansion valve, condensor, compressor, motor, refrigerant piping/drain piping, insulation of cold room's wall, ceiling door with 60 mm prefab CFC free PUF panel inside PPGI & Out side PPGI and floor with 60 mm CFC free PUF pannels PP/GI with anti skid floor and heavy duty hinges and handles with inside & out side PPGI finish with provision for locking the door from out side with all accessories like kick plate, light switch, Digital temperature indicator, Door Closures safety release knob, controller, safety alarm etc to achieve the required temperature of +15 to +25 degree centigrade in cold rooms with automated data logger suitable for PC Connectivity (Without PC) FLOOR - P P OUTER 9 MM MARINE PLY - 12 MM AL chequered plate Refrigeration system for maintaining temperature in cold room : Capacity 40000 btu/hr x 2 Nos(1 Working 1 standby) as per specifications i/c copper piping, cabling and starter Installation, testing and commissioning refrigeration units as required	1.00	Each

5130.00	15390.00	5000.00	15000.00	2000.00	6000.00	623.00	1869.00
6612.00	509124.00	7200.00	554400.00	6000.00	462000.00	5600.00	431200.00
6943.00	208290.00	7200.00	216000.00	6000.00	180000.00	6000.00	180000.00
969.00	894387.00	500.00	461500.00	500.00	461500.00	600.00	553800.00
146.00	36500.00	250.00	62500.00	500.00	125000.00	100.00	25000.00
2371200.00	2371200.00	1600000.00	1600000.00	2000000.00	2000000.00	955125.00	955125.00

20/08/22
Almo

1869.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
431200.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
180000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED, Shri Balaji Constructio n
461500.00	Shri Balaji Constructio n, SGB INFRA LTD
25000.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
955125.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED

54.00	Design, Supply, Installation, testing and commissioning of following capacity walk in cold room with cooling system working on CFC free refrigerant, complete in all respect for cold room of size 7.00 Mtr. x 6.00 Mtr x 2.74 Mtr. (H) for perishable products including Evaporative unit with matching condensing unit, Blower, Coil, Expansion valve, condensor, compressor, motor, refrigerant piping/drain piping, insulation of cold room's wall, ceiling, door with 60 mm prefab CFC free PUF panel inside PPGI & Out side PPGI and floor with 60 mm CFC free PUF panels PP/GI with anti skid floor and heavy duty hinges and handles with inside & out side PPGI finish with provision for locking the door from out side with all accessories like kick plate, light switch, Digital temperature indicator, Door Closures safety release knob, controller, safety alarm etc to achieve the required temperature of +2 to +8 degree centigrade in cold rooms with automated data logger suitable for PC Connectivity (Without PC). FLOOR - P P OUTER 8 MM MARINE PLY - 12 MM AL. chequered plate Refrigeration system for maintaining tempreature in cold room. Capacity 20000 btu /hr x 2 Nos(1 Working 1 standby) as per specifications i/c copper piping, cabling and starter Installation, testing and commissioning refrigeration	1.00	Each
55.00	Design, Supply, Installation, testing and commissioning of following capacity walk in cold room with cooling system working on CFC free refrigerant, complete in all respect for cold room of size 7.00 Mtr. x 4.00 Mtr x 2.74 Mtr. (H) for perishable products including Evaporative unit with matching condensing unit, Blower, Coil, Expansion valve, condensor, compressor, motor, refrigerant piping/drain piping, insulation of cold room's wall, ceiling, door with 100 mm prefab CFC free PUF panel inside PPGI & Out side PPGI and floor with 100 mm CFC free PUF panels PP/GI with anti skid floor and heavy duty hinges and handles with inside & out side PPGI finish with provision for locking the door from out side with all accessories like kick plate, light switch, Digital temperature indicator, Door Closures safety release knob, controller, safety alarm etc to achieve the required temperature of -8 to -2 degree centigrade in cold rooms with automated data logger suitable for PC Connectivity (Without PC). FLOOR - P P OUTER 9 MM MARINE PLY - 12 MM AL. chequered plate Refrigeration system for maintaining tempreature in cold room. Capacity 12000 btu /hr x 2 Nos(1 Working 1 standby) as per specifications i/c copper piping, cabling and starter Installation, testing and commissioning refrigeration	1.00	Each

1244880.00	1244880.00	1000000.00	1000000.00	1300000.00	1300000.00	618175.00	618175.00
829920.00	829920.00	1000000.00	1000000.00	1700000.00	1700000.00	459900.00	459900.00

618175.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED
459900.00	WESTERN OUTDOOR STRUCTUR ES PRIVATE LIMITED


8/3/22
Agm(a)

56.00	Design, Supply, Installation, testing and commissioning of following capacity walk in cold room with cooling system working on CFC free refrigerant complete in all respect for cold room of size 4.00 Mtr x 3.27 Mtr x 2.74 Mtr (H) for perishable/ pharma products including Evaporative unit with matching condensing unit, Blower, Coil, Expansion valve, condensor, compressor, motor, refrigerant piping/drain piping, insulation of cold room's wall, ceiling, door with 60 mm prefab CFC free PUF panel inside PP/ GI & Out side PP/ GI and floor with 60 mm CFC free PUF panels PP/ GI with anti skid floor and heavy duty hinges and handles with inside & out side PP/ GI finish with provision for locking the door from out side with all accessories like kick plate, light switch, Digital temperature indicator, Door Closures safety release knob, controller, safety alarm etc to achieve the required temperature of +2 to +25 degree centigrade in cold rooms with automated data logger suitable for PC Connectivity (Without PC). FLOOR - P P OUTER 9 MM MARINE PLY - 12 MM AL. chequered plate. Refrigeration system for maintaining temperature in cold room, Capacity - 20000 btu /hr x 2 Nos(1 Working 1 standby) as per specifications i/c copper piping, cabling and starter installation, testing and commissioning refrigeration units as required.	1.00	Each
57.00	Design, Supply, Installation, testing and commissioning of following capacity walk in cold room with cooling system working on CFC free refrigerant complete in all respect for cold room of size 6.00 Mtr x 3.27 Mtr x 2.74 Mtr (H) for perishable/ pharma products including Evaporative unit with matching condensing unit, Blower, Coil, Expansion valve, condensor, compressor, motor, refrigerant piping/drain piping, insulation of cold room's wall, ceiling, door with 60 mm prefab CFC free PUF panel inside PP/ GI & Out side PP/ GI and floor with 60 mm CFC free PUF panels PP/ GI with anti skid floor and heavy duty hinges and handles with inside & out side PP/ GI finish with provision for locking the door from out side with all accessories like kick plate, light switch, Digital temperature indicator, Door Closures safety release knob, controller, safety alarm etc to achieve the required temperature of +2 to +25 degree centigrade in cold rooms with automated data logger suitable for PC Connectivity (Without PC). FLOOR - P P OUTER 9 MM MARINE PLY - 12 MM AL. chequered plate. Refrigeration system for maintaining temperature in cold room, Capacity - 20000 btu /hr x 2 Nos(1 Working 1 standby) as per specifications i/c copper piping, cabling and starter installation, testing and commissioning refrigeration units as required.	1.00	Each
58.00	Supplying and Fixing of extra refrigerant piping/cable beyond 7 meter in above items as required.	100.00	RFT

387691.00	387691.00	750000.00	750000.00	900000.00	900000.00	409525.00	409525.00
581537.00	581537.00	750000.00	750000.00	1000000.00	1000000.00	461200.00	461200.00
2052.00	205200.00	2700.00	270000.00	300.00	30000.00	2150.00	215000.00

387691.00	EPACK POLYMERS PRIVATE LIMITED
461200.00	WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED
30000.00	Shri Balaji Construction

Total in Figures

112947142.0
0

110019465.0
0

97634880.00

104796280.00

Signature Not Verified

Lowest Amount Quoted BY: Shri Balaji Construction(97634880.00)

Digitally signed by Sanjai Kumar
Date: 2022.03.21 11:29:01 IST
Location: eProcurement System for Central PSUs

Sanjai Kumar
8/03/2022
(10M 6/11/22)

Sanjai Kumar
8/3/22
AGM(E)