कार्यालय म0प्र0 राज्य कृषि विपणन बोर्ड, तकनीकी संभाग क्र.2, 26, किसान भवन, अरेरा हिल्स, भोपाल

क्र./तक.स.क्र.02/पीएसपी प्लॉट/46 पार्ट/1219 भोपाल, दिनांकः 05.12.19

:: निविदा आमंत्रण सूचना ::

प्रमुख अभियंता म0 प्र0 लोक निर्माण विभाग में उपयुक्त (केन्द्रीयकृत पंजीयन प्रणाली) पंजीकृत निविदाकारों से प्रतिशत दर आधार पर सिस्टम निविदा क्रमांक..2019_MPSAM_67728 के अन्तर्गत, ऑन लाईन निविदायें दिनांक 27.12.2019 को शाम 05:30 बजे तक एवं भौतिक रूप से दिनांक 30.12.2019 को शाम 5:30 बजे तक जरिये स्पीड पोस्ट/पंजीकृत डाक से (वित्तीय आफर को छोडकर) आमंत्रित की जाती है। निविदा प्रपत्र एवं अन्य जानकारी निविदाकारों को म.प्र. शासन के ई–निविदा के पोर्टल https://mptenders.gov.in पर प्राप्त होगी एवं उक्त निविदा से संबंधित समस्त जानकारी मंडी बोर्ड के पोर्टल www.mpmandiboard.gov.in पर भी अवलोकनीय होगी।

नोटः– आवश्यक होने पर उपरोक्त निविदा सूचना से संबंधित किसी भी प्रकार की संशोधन सूचना अथवा अन्य जानकारी केवल उपरोक्तानुसार पोर्टल पर प्रदर्शित की जावेगी।

कार्यपालनयंत्री
म.प्र.राज्य कृषि विपणन बोर्ड
तकनीकी संभाग क. 02, भोपाल

SECTION 1
Notice Inviting e-Tenders

OFFICE OF THE Executive Engineer
M.P. State Agricultural Marketing Board Tech. Division No. **02, Bhopal**

N.I.T. No /e-tendering/1219 dated 05 -12-19

Online percentage rate bids for the following works are invited from registered contractors and firms of repute fulfilling registration criteria. AS PER DETAILED NIT & INSTRUCTIONS.

S. No.	Tender System No.	Work	District (s)	Probable Amount (Rs. in Crore)	Completion Period , Including Rainy Season
1	2019_MPSAM_67728	CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL **A**. Main Building and outer development work cost **Rs. 661.00 LAKH** B. Road Work **Rs. 16.76 LAKH** C. Internal and External Electrical work **Rs. 128.86 LAKH** **D. Non SOR Item Rs. 77.11 LAKH**	Bhopal	8.84	20 Months

1. Interested bidders can view the NIT on website http:// mptenders.gov.in
2. The Bid Document can be purchased only online from *11:00 AM*(time)06-12-19(date) to *17:30* (time) 27-12-19(date).
3. Amendments to NIT, if any, would be published on website - http:// mptenders.gov.in and Mandi Board Portal "https://mpmandiboard.gov.in / https://mpmandiboard.co.in/ only, and not in newspaper.
4. *receipt of earnest money deposit, online payment at portal for the cost of bid document ,E.P.F. & E.S.I. Registration Certificate, affidavit and other document shall be submitted by the bidder by Only* ***Govt. registered/speed post only (not by private courier or by hand)*** *so as to reach the office as prescribed in Bid Data Sheet.*
5. **Applicable SOR** –
   (A) **For Building Works :-** M.P. PWD BUILDING SOR ENFORCE From 01.08.2014 WITH AMENDMENT up to date of issue of N.I.T.
   (B) **For Road Work :** SOR issued by M.P. PW.D. for Road work in force from 29.08.17 Amendment up to date of issue of N.I.T
   (C) **For Electrical Works** - M.P.P.W.D. (E/M) S.O.R. for Electrical works in forced from 01.08.2014. and Amendment upto date of issue of N.I.T.
   (D) **Non SOR ITEMS;- Quoted tender rate is also applicable on Non SOR Items. Non SOR items as attached in Annexure Z.**

Executive Engineer
M.P. State Agricultural Marketing Board
Tech. Division No.2, Bhopal

Notice Inviting e-Tenders

OFFICE OF THE Executive Engineer

M.P. State Agricultural Marketing Board Tech. Division No. **02, Bhopal**

N.I.T. No /e-tendering/1219 dated 05-12-19

Online Percentage Rate E-Tenders are invited from contractors registered with the office of the Engineer in Chief, M.P. Public Works Department, Government of Madhya Pradesh(Centralized Registration Cell) for the following Works so as to be received online up to 05:30 PM on 27-12-19 The Tender Document can be obtained online on the https://mptenders.gov.in as per the Notice published on the above portal and Detailed information can also be seen on website www.mpmandiboard.gov.in and www.mpmandiboard.co.in

Tender ID	Name of Work and Place	Probable Amount of Contract (Rs. in Crore)	Earnest Money Deposit (EMD) (In Lakh)	Cost Of Bid Document (In Rupees)	Time Period , Including Rainy Season
2019_MPSAM_67728	CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL **A**. Main Building and outer development work cost **Rs. 661.00 LAKH** B. Road Work **Rs. 16.76 LAKH** C. Internal and External Electrical work **Rs. 128.86 LAKH** **D. Non SOR Item Rs. 77.11 LAKH**	8.84 Crore	8.84 Lakh	20,000.00	20 Month

Note:- Any corrigendum in this NIT, If required, shall be displayed only in our above portals regarding any matter included in this NIT or otherwise. Other Details of Construction/Development works and locations & key dates can also be seen on our website www.mpmandiboard.gov.in and www.mpmandiboard.co.in

(i) Details of Construction/Development works and Locations may be seen in Office of Executive Engineer MP State agricultural marketing board Technical Division no. 02, Bhopal. Dist. Bhopal

(ii) All details relating to the Bid Document can be viewed and Downloaded free of Cost on the website.

(iii) Bid document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/ internet banking.

(iv) At the time of submission of the bid the eligible bidder shall be required to :

a. Receipt of pay the cost of Bid Document;
b. Receipt of pay the Earnest Money deposit . Scanned copy of EMD instrument shall be uploaded online along with the reference details.
c. Submit a check list
d. Organization detail as per Annexure-H

e. E.P.F., E.S.I. & G.S.T. Registration Certificate.

f. Submit the Physical copy of affidavit on non-judicial stamp of Rs. 50/- Duly Notarized in original saying that all submitted /uploaded document with technical bid physically & online are correct in my knowledge & no relationship certificate between dept. employee & officer with him.

g. Self Attested Copy of valid for appropriate class Registration, Registererd with the office of ENC, MP PWD, BHOPAL Govt. Of MP (Registration valid upto Bid Submission End date)

h. In case of Internal And External Electrification in Building work the Bidder shall required to submit an Valid "A" Class Electric License of any person or employee issued by the Chief Electrical Adviser to the state Government of Madhya Pradesh.

(V) Online Bidders have to submit the Physical Copy of Documents mentioned in technical Bid And Above. The Last Date to receive the Hard copy of all Documents is upto 5:30PM on 30.12.2019 Through Speed/Registered Post (not by Private courier or by Hand) only at the office of Executive Engineer MP State Agricultural Marketing Board Technical Division No. 02, Bhopal.

(VI) Additional Special Condition of contract BIDDER ARE REQUIRED TO OFFER THEIR BIDS EXCLUSIVE OF APPLICABLE GST. THE GST SHALL BE PAID BY THE DEPT. TO THE CONTRACTOR SEPARATELY.

(vii) Terms & Conditions Applicable as per detailed tender documents.

(viii) Note:- **Note :- M.P. P.W.D. Order and Circulars from 1 to 18(except SI.No. 12 regarding ICICI Bank) adopted by Mandi Board wide order no/ nirman/e-tendering/ 458 dated 15-02-17 issued by Chief Engineer M.P. State Agricultural Marketing Board Bhopal and Requirement of EPF & ESI Registration Certificate vide Engineer-in-Chief, M.P.State Agricultural Marketing Board, Bhopal letter No./Nirman/ Ni.Vi./EPF-ESI/17-18/2498 Dated 20.11.2017 and GST deduction from RA/Bill vide letter no. 592 Dt. 05.10.2018 are applicable.**

(ix) The bidders are required to quote only one rate of percentage Above/below/at par on the following Schedule of Rates issued by the M.P.P.W.D. building S.O.R. enforced from 01.08.2014 and Amendment upto date of issue of N.I.T.

(x) Pre-qualification:- Prequalification conditions are Applicable as per Bid Data Sheet (Annexure-C clause A & B)

Applicable SOR –

(A) For Building Works :- M.P.P.W.D. building S.O.R. enforced from 01.08.2014 and Amendment upto date of issue of N.I.T.

(B) For Road Work : SOR issued by M.P.PW.D. for Road work in force from 29.08.2017 Amendment up to date of issue of N.I.T

(C) **For Electrical Works - M.P.P.W.D. (E/M) S.O.R. for Electric works in forced from 01.08.2014 and Amendment** upto date of issue of N.I.T. Also Applicable.

(D) **Non SOR ITEMS;- Quoted tender rate is also applicable on Non SOR Items. Non SOR items as attached in Annexure Z.**

KEY DATES:

1	**Publishing Date**	06-Dec-2019 10:30 AM	**2**	**Document Download / Sale Start Date**	06-Dec-2019 11:00 AM
3	**Bid Submission Start Date**	06-Dec-2019 11:00 AM	**4**	**Bid Submission Closing Date**	27-Dec-2019 05:30 PM
5	**Bid Opening Date**	31-Dec-2019 11:30 AM			

Executive Engineer
M.P. State **Agricultural** Marketing Board
Tech. Division No.2, Bhopal

BOQ (CIVIL) OF GUEST HOUSE CUM TRAINING CENTER BUILDING, MANDI BOARD , BHOPAL (M.P.)				
S No.	**SOR'14**	**Description**	**Unit**	**Qty**
1	**2**	**3**	**4**	**5**
	1.1	Transportation By Mechanical Transport including loading ,unloading and stacking.		
		5 Km.		
	1.1.2	Earth	Cum	289.2
	1.1.4	Excavated Rock	Cum	433.7
	2.1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.		
	2.1.1	All kinds of soil.	100 sqm	35.8
	2.2	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 sqm	35.8
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means)		
	2.6.1	All kinds of soil.	Cum	2653.3
	2.7	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.		
	2.7.1	Ordinary rock	cum.	3778.7
	2.8	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. (No extra lift is payable if work is done by mechanical means)		
	2.8.1	All kinds of soil.	Cum.	1133.6
	2.9	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.		
	2.9.1	Ordinary rock	Cum.	58.8

	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means)		
	2.10.1	All Kind of Soil		
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Metre	400.0
	2.25	Filling available excavated earth (excluding hard rock/Ordinary rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum.	998.3
	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)		
	2.26.1	All kinds of soil.	cum.	30.3
	2.26.2	Ordinary or hard rock.	cum.	3915.0
	2.27	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming consolidating in layers not exceeding 20cm in depth and dressing complete. Note-maximum thickness of this layer to be provided shall be 20 cm.	cum.	223.3
	2.28	Supplying and filling in plinth with hard muram/hard copra under floors including watering ramming cosolidating in layers not exceeding 20cm in depth and dressing complete.		
	2.28.1	Supplying and filling in plinth with hard muram/hard copra having MDD not less than 2.0 tim3 under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note-maximum thickness of this layer to be provided shall be 30cm.)	Cum.	366.6
	2.32	Preconstruction antitermite treatment to the building under construction by providing		
		Stage 1: Treating the bottom and the sides (upto 30cm hight of the excavated trench @ 5 litter per sqm of the surface area.		
		Stage 2: After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment @ 7.5 litter per sqm. of the vertical surface of the substructure for each side.		
		Stage 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 litres/Sqm.		
		Stage 4: Pumping the emulsion in plinth masonry on filling side at floor junction @ 7.5 litres/Sqm.		
		Stage 5: Pumping the emulsion from outer side of the plinth below ground alround the masonry @ 5.0 litres/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area)	Sqm	1450.0

		Note – Treatment should start when foundation trenches and pits are ready to take bed concrete or leveling course in foundations. Laying of bed concrete should start when the chemical emulsion has been absorbed by the soil and the surface is reasonably dry. Treatment should not be carried out when it is raining or when soil is wet with rain or subsoil water. This also applies to filled up soil within the plinth area before laying the subgrade for flooring.		
	3.1	Excavation in Soil by Manual Means Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres as per clauses of section-300.	Cum	1078.7
	3.10	Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material having CBR>7 obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-1, 300-2 and as per relevent clauses of section-300.	Cum	705.9
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
	4.1.1.4	Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M 10)	Cum.	139.8
	4.1.2	With 40mm nominal size graded stone aggregate.		
	4.1.2.1	M 15 - Grade concrete	cum	380.0
	4.1.2.2	Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M 10)	Cum	88.6
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor two level, excluding the cost of centering, shuttering and finishing :		
	4.2.1	With 20mm nominal size graded stone aggregate		
	4.2.1.3	M 15 – Grade concrete	cum	4.0
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :		
	4.3.1	Foundations, footings, bases for columns.	Sqm.	125.0
	4.3.2	Retaining walls,return walls,walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets etc.	sqm	15.0
	4.12	Crusher Run Macadam Sub Base/Base Course Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base in accordance to Table No. 400-14, 400-15 and as per clause of section 407 of specifications.	Cum	
		(i) For 53 mm maximum size		214.2
	4.12	Extra for providing and mixing water proofing material as per IS standard in cement concrete work quantity as prescribed by the manufacturer.	per bag of 50 kg of cement	158.0

	4.13	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.		
		B Hard Shoulders (CBR value >12)	cum	235.3
	5.44	**RCC With Shuttering** Providing and laying Erecting Design Mix in Situ or Precast or Combination of In situ and Precast Cement Concrete of Specified Grade As Per Approved Design For RCC Work Prepared By Only Weigh, Batching, And Machine Mix At Site / Yard / RMC Plant Including Transportation To Any Lead By Any Mean Such As Chute, Convyor Belt, Truck, RMC Transist Mixer etc. Placed / Erected By Any Mechanical Mean Sch As Bucket, Hoist, Pump, Crane, Hydra etc. Including Cost of All Materials Such As Admixture / Plasticizer To Achive Designed Retarded / Accelerate / Setting Time And Suitable Workability, Centering, Shuttering, Strutting, Compacting, Vibrating, Vaccume Dewatering, Curing, ByANy Mean Such as Water, Steam, Curing Compound etc. Comlpete But Excluding Cost of Reinforcement As Per Direction of Engineer In Charge. All Works In Compliance To Relavent IS Codes And CPWD Specification Only.		
		(Note :Design Mix Shall Have Minimum Cement Content Shall Be 325kg/Cum For M 20, 330kg/Cum For M 25, 340kg/Cum For M 30, 350kg/Cum For M 35, 360kg/Cum For M 40. and No Extra Payment For Use of Extra Qty of Cement I Design Mix Shall Be Made.		
	5.44.1	All works upto plinth level.(Footing,Raft, Pedestal, RCC Drain, RCC Retaining Wall, RCC Abutments, RCC Piers, Plinth Beam, Grade Slab, Curtain Wall, Poles, RCC Barrier etc.)		
	5.44.1.1	M 20	Cum.	306.3
	5.44.1.2	M 25	cum	688.4
	5.16	**SOR Item No 5.16** Ammendmend No 15dt. 09.02.16 Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding up to floor two level including cost of binding wire, all wastage and lappages /overlaps (overlaps shall be provided as per requirement of IS 13920 for ductile detailing, IS 456 RCC design & SP 34rainforcement detailing etc complete. (Note: Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge.		
		5.16.6 Thermo-mechanically treated bars(TMT) FE500 D conforming to IS 1786.	Kg	275144.2
		UPTO PLINTH		100457.3
		ABOVE PLIN TH		140749.9
	5.17	Add extra for providing reinforcement above Floor two level for every additional floor or part there of.	Kg.	
		1rd Floor		22188.8
		2rd Floor		30557.9
		3rd Floor		24788.1
		4th Floor		24788.1
		Roof		24000.2

	5.44	**RCC With Shuttering** Providing and laying Erecting Design Mix in Situ or Precast or Combination of In situ and Precast Cement Concrete of Specified Grade As Per Approved Design For RCC Work Prepared By Only Weigh, Batching, And Machine Mix At Site / Yard / RMC Plant Including Transportation To Any Lead By Any Mean Such As Chute, Convyor Belt, Truck, RMC Transist Mixer etc. Placed / Erected By Any Mechanical Mean Sch As Bucket, Hoist, Pump, Crane, Hydra etc. Including Cost of All Materials Such As Admixture / Plasticizer To Achive Designed Retarded / Accelerate / Setting Time And Suitable Workability, Centering, Shuttering, Strutting, Compacting, Vibrating, Vaccume Dewatering, Curing, ByANy Mean Such as Water, Steam, Curing Compound etc. Comlpete But Excluding Cost of Reinforcement As Per Direction of Engineer In Charge. All Works In Compliance To Relavent IS Codes And CPWD Specification Only.		
		(Note :Design Mix Shall Have Minimum Cement Content Shall Be 325kg/Cum For M 20, 330kg/Cum For M 25, 340kg/Cum For M 30, 350kg/Cum For M 35, 360kg/Cum For M 40. and No Extra Payment For Use of Extra Qty of Cement I Design Mix Shall Be Made.		
	5.44.2	Above Plinth Upto Floor Two Level Walls(Any Thickness, Column, Pillars, Piers, Posts, & Struts etc.		
	5.44.2.1	M 20	cum	13.6
	5.44.2.2	M 25	cum	246.8
	5.44.3	Suspended Roof, Roof Having Slope of AnyDegree, Landings, Balconies, Access Plateform, Floor Beam, Girders, Bressumers And Cantilever Shleves, Chajjas, Lintels, Bends, Staircases & Spiral Staircases, Coffer Slab.		
	5.44.3.2	M 25	Cum	1209.6
				188.0
				1003.4
	5.44.5	Arches, Arch Ribs, Domes, Vaults, Shells, Folded Plate		
	5.44.5.2	M 25	Cum	5.0
	5.45	Add Extra For C.C. Works As Per Items No. 5.42 Abobe Floor Two Level For Each Floor or Part There of	Cum	
		For Column & Walls		
		1rd Floor	Cum	35.7
		2rd Floor	Cum	41.5
		3rd Floor	Cum	41.6
		4th Floor	Cum	41.6
		Roof	Cum	25.1
		For Beam, Slab & Lintel Beam		
		1rd Floor	Cum	147.5
		2rd Floor	Cum	217.8
		3rd Floor	Cum	166.4
		4th Floor	Cum	166.4
		Roof	Cum	177.8

	6.1	Dry Lean Cement Concrete Sub- base Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete in all respect.	cum	117.7
	6.13	Providing and laying reinforced cement concrete pipe 300mm dia NP-4 for service ducts below concrete pavement.	R.M.	140.0
	6.16	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.		
		i) 100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern	sqm	3171.2
	ii)	80mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	Sqm	200.0
	6.7	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor II level in :		
	6.7.1	having 100 kg / cm^2 average compressive strength		
	6.7.1.1	Cement mortar 1:4 (1 cement : 4 sand)	Cum	19.2
	6.7.1.2	Cement mortar 1:6 (1 cement : 6 sand)	Cum	76.5
	6.28	**Autoclaved Aerated Concrete (AAC) Blocks Masonry : -** Providing & Laying Autoclaved Aerated Concrete (AAC) Bock Masonry, Using AAC Blocks (Size in mm Length 400,500,600 Height 200, 250, 300 Width 100, 150, 200, 250) Confirming To IS 2185 Part 3, Having Compressive Strength not Less Than 3MPa (Grade II)in Super Structure, Block Jointed With Cement Moetar 1:6 (1 Cement: 6 Sand) or With Polymer Modified Cement Mortar (Make Such As Magicrete, Fairmate, Ball Endura, Letecrete, CI or Equivalent) As Per ASTMC 1660-09, Applied in Uniform Thickness of 2 to 3mm in Horizontal And Vertical Joints Using Special Trovel, Polymer Modified Mortar Having Minimum Compressive Strength & Minimum Splitting Tensile Strength of Not Less Than 5MPa and 0.34 MPa Respectively as Per ASTM International Standard Including Racking out Jointh.		

		The Surface of Masonry Units(AAC-Block) Should Be Slightly Moidt Prior to Application of Jointing Mortar. Block Should Be Gently Pressed Down a Rubber Mallet To Expel Out Entrapped Air and The Masonry Shall Be Cured For Seven Days For Cement Mortar and Two Days For Polymer Modified Mortar. 1st layer of Masonry Block Shall BE Placed on Perfectly Leveled Surface, Which If Required, Shall Be Laveled With M-20 Cement Concrete at Plinth or Floor Level. Msonry Shall Have 80mm Thick RCC Band With M-20 Cement Concreye And 2 Bars of 8mm Dia. Such Bands Shall Be Spaced At Interval of Maximum 1.8 Meter In Vertical Direction And Maximum 4.5 Meter in Horizontal Direction. RCC Band Shall Be MeasuredWith AAC Block Masonry. Rates Including All Materials Including Steel Bars, Wastages, Scaffolding And All Labour etc. Complete.		
	6.28.2	AAC Masonary in Polymer Modified mortar	cum	1200.3
	6.29	Extra for AAC Masonry Work As Per Item No. 6.28 in Super Structure Above Floor Two Level For Each Additional Floor or Part There of.		
		Second floor	Cum	244.7
		Third floor	Cum	232.5
		Fourth floor	Cum	217.0
		Fifth floor	Cum	43.2
		Mumty	Cum	24.6
	7.40	Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins. shall be paid for separately.)		
	7.40.2	White sand stone	sqm	333.3
	7.41	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing including cost of cutting, bending, welding etc. The frame work shall be supported in wall with the help of MS brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 sand :4 graded stone aggregate 20mm nominal size) of size 300x200x300mm including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-charge for approval before execution). The frame work shall be fixed in true horizontal and vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel	Kg	752.7

	7.25	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement :2 sand) including making the necessary chases in stone and holes in walls wherever required.	kg	166.7
	7.26	Providing and fixing stone dowels of size 10x5x2.5cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 sand) including making the necessary chases	each	1333.3
	7.27	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 sand) including making the necessary chases.	each	1333.3
	8.8	"Design supply and installation of suspended Spider Glazing system designed to withstand the wind pressure as pr IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider and bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets and Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener and anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion and seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter and in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof and dust proof. The rate shall include all design, Engineering and shop drawing including approval from	Sqm	208.4
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or dash fastener shall be paid for separately).		
	9.1.4	Factory made Kiln seasoned and chemically treated Finger jointed at spacing not closer 50 cm , second class hard wood.		
	9.1.4.1	frame of sizes 100 x 60 mm single or double rebated	Metre	15.3
	9.6	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :		
	9.6.7	Float glass panes		0.0
	9.6.7.2	5.5 mm thick glass pane	sqm	196.4
	9.16	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :		
	9.16.1	12 mm thick	Sqm	600.0
	9.43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.		

	9.43.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg.	1550.4
	9.65	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete :		
	9.65.2	250x16 mm	Each	226.0
	9.66	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete		
	9.66.2	200x10 mm	Each	443.0
	9.69	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :		
	9.69.1	125 mm	Each	446.0
	9.93	Providing and fixing Cromium plated brass hanging type floor door stopper with necessary screws, etc. complete.	Each	132.0
	9.95	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	Each	50.0
	9.124	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.		1.3
	9.124.1	With 2nd class teak wood beading 62x19 mm.	sqm	
	9.192	Providing and fixing factory made solid wood plastic composite(WPC) door frames made from wood plastic composite(single extruded process) material with density 0.78kg/cum. And manufactured by a ISO 9001-2000 certified company.		
	9.192.3	WPC Door Frame - Single or Duble Rebate(125mmx65mm)	Meter	743.6
	9.193	PROVIDING and fixing ISI marked factory made flush door shutters conforming to IS: 2202 (part 1) laminated type, core of block board constrution with kiln seasoned and chemically treated 2nd class hard wood battens (strips) and frame of kiln sensoned and chemically treated, finger jointed 1st class hard wood of width not less than 65mm for style, top rail, bottom rail and 125mm for lock rail. block board shall be provided with well matched 3mm thick commercial 3 ply veneering consisting of vertical grains, cross bands and commercial grade face venners on both outer faces of shutters including kiln seasoned and chemically treated ,finger jointed 2nd class teakwood internal lipping (battens) fixed in factory by using pneumating gun, of depth not less than 25mm on all edges of shutters, spacing of finger joints in wood as above shall not be lass than 50cm. both surfaces of shutters to be provided with 1.00mm thick decorative high pressure laminated sheet on plain/wood grain in gloss/matt/suede finish with high density protective surface layer of make such as mica, century, greenlam,formica,durian or equivalent thereby not requiring polish,putty or painting work,adhesive on reverse side of lamination sheet shall be factory		
	9.193.2	30mm thick including 3nos. 100mm long, ISI marked heavy weight (2.5mm thick) stainless steel butt hinges with necessary screws.	sqm	267.9
	10.22	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.		

	10.22.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	1614.4
	10.36	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 3.00m apart and with 9 horizontal R.B.T. reinforced arbed 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-incharge,		
		with reinforced barbed tape(R.B.T.) / Spring core (2.5 mm thick) wire of high tensile strength of 165 kg/ sq mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately).	Metre	202.4
	10.25	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	Kg.	1478.0
	11.22	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. samples approved by Engineer-in-charge.		
	11.22.2	Granite of any colour and shade	Sqm.	64.5
	11.29	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded (wherever required) and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in flooring laid over 20mm thick base of cement mortar 1:4 (1cement : 4 sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
	11.29.1	Area of slab over 0.50 sqm.		
	11.29.1.1	Fine Grained Dark Black/ Dark Red/ White With Self Design/ attern/ Crystal of Other Colors & Glotter	Sqm	935.6
	11.33	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.	Sqm	94.7

	11.34	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1cement : 4 sand) :		
	11.34.1	25 mm thick.	Sq.m.	510.0
	11.35	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	**sqm**	25.5
	11.38	Extra for providing opening of required size and shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	48.0
	11.45	Providing and laying Ceramic glazed floor tiles 300x300 mm or more (having thickness 6 to 7mm) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	6.3
	11.46	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS : 15622 of approved make in all Colours shades, Except burgundy, Bottle green, Black, laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement : 3 sand) jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.	sqm	28.0
	11.51	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (having thickness 9 to 10mm) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigments etc., complete.	Sqm	577.1
	11.52	Providing and laying rectified Glazed Ceramic wall tiles 300x450 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 12 mm thick Cement Mortar 1:3 (1 Cement : 3 sand) including pointing the joints with white cement and matching pigments etc., complete.	Sqm	881.3
	11.90	Providing and laying Vitrified Floor tiles Multi/ Double Charge (Minimum Top Layer Thickness 2.0 mm)Nano Polished Self Design, In Different Size , with water absorption less than 0.05% and conforming to IS:15622 , of approved Make in All Colors & Shades, 1st Quality / Premium In Flooring, Laid on 20mm Thick Cement Mortar 1:4 (1 Cement :4 Sand) Including Grouting the Joint With White Cement & MatchingPigment etc Complete.		

	11.84	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, leveland curvature, jointed with cement mortar 1:3 (1 cement: 3 sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to 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).	Cum	4.8
	11.90	Providing and laying Vitrified Floor tiles Multi/ Double Charge (Minimum Top Layer Thickness 2.0 mm)Nano Polished Self Design, In Different Size , with water absorption less than 0.05% and conforming to IS:15622 , of approved Make in All Colors & Shades, 1st Quality / Premium In Flooring, Laid on 20mm Thick Cement Mortar 1:4 (1 Cement :4 Sand) Including Grouting the Joint With White Cement & MatchingPigment etc Complete.		
	11.90.1	In Light Shade Glossy/ Rustic / Satin Finished		0.0
		(a) Size600x600mm Thickness 9-10mm	sqm	16.2
		(b) Size800x800mm Thickness 11-12mm	sqm	1119.5
	11.92	Providing and laying Vitrified Floor tiles Multi/ Double Charge (MinimumTop Layer Thickness 2.0 mm)Nano Polished Self Design, In Different Size , with water absorption less than 0.05% and conforming to IS:15622 , of approved Make in All Colors & Shades, 1st Quality / Premium In Skirting, Laid on 12mm Thick Cement Mortar 1:3 (1 Cement : 3 Sand) Including Grouting the Joint With White Cement & Matching Pigment etc Complete.		
	11.92.1	In Light Shade Glossy/ Rustic / Satin Finished	sqm	
		(b) Size800x800mm Thickness 11-12mm		167.9
	12.26	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 sand) as per standard design :		
	12.26.1	In 75x75mm deep chase	meter	180.0
	12.27	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 sand) and a coat of neat cement rounding the edge and making and finishing the outlet complete.	Each	10.0
	12.28	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10cm of Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc.		
	12.28.2	150 mm diameter	each	250.0

	12.29	Providing and fixing sand cast iron rain water pipes.		0.0
	12.29.2	150 mm dia minimum wall thickness 5mm	meter	250.0
	12.30	Providing lead caulked joints to sand cast iron rain water pipes and fittings :		
	12.30.2	150 mm dia. Pipe	each	90.0
	12.31	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately) :		
	12.31.1	Sand cast iron bend :		
	12.31.1.1	150 mm diameter	each	30.0
	12.31.2	Sand cast iron plain shoes :		
	12.31.2.1	150 mm diameter	each	15.0
	12.35	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	15.0
	13.1	12 mm cement plaster of mix :		
	13.1.1	1:4 (1 cement : 4 sand)	Sqm.	148.9
	13.1.2	1:6 (1 cement : 6 sand)	Sqm.	13780.0
	13.7	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 sand) and a top layer 6mm thick cement plaster 1:3 (1 cement : 3 sand) finished rough with sponge.	Sqm.	148.1
	13.8	6 mm cement plaster of mix :	Sqm.	0.0
	13.8.1	1:3 (1 cement : 3 sand)	Sqm.	5374.0
	13.9	6 mm cement plaster 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	sqm	82.8
	13.10	Neat cement punning	Sqm.	1352.5
	13.14	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50 kg cement used in the mix	88.0
	13.15	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm.	
		2nd Floor		618.8
		3rd Floor		618.8
		4th Floor		512.3
		Mumty and Parapet		891.0
	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, Like birla white /JK white or equivalent, over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete.	Sqm.	12460.8
	13.49	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:		
	13.49.1	Two or more coats on new work	Sqm.	16418.6
	13.55	Finishing walls with Acrylic Smooth exterior paint of required shade:		

	13.55.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	sqm	943.3
	13.68	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :		
	13.68.1	Two or more coats on new work	sqm	421.2
	16.1	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer –in-charge, upto 90 metre depth below ground level.		
	16.1.1	All types of soil		
	16.1.1.1	100 mm dia.	meter	38.0
	16.1.1.2	150 mm dia.	meter	122.0
	16.1.1.3	200 mm dia.	meter	2.0
	16.2	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer –in-charge, beyond 90 metre depth below ground level.		
	16.2.1	All types of soil		0.0
	16.2.1.1	100 mm dia.	meter	32.0
	16.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-charge.		
	16.5.1	100 mm nominal size dia having minimum wall thickness 4.50 mm	meter	35.0
	16.5.2	150 mm nominal size dia having minimum wall thickness 4.85 mm	meter	61.0
	16.5.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	meter	6.0

	16.6	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer –in-charge.		
	16.6.1	100 mm nominal size dia.	meter	35.0
	16.6.2	150 mm nominal size dia.	meter	61.0
	16.7	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	10.0
	16.8	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level and draw down etc. by step draw down method, collecting water samples and getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire and labour charges of air compressor, tools and accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	8.0
	16.9	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:		
	16.9.3	200 mm dia	each	1.0
	16.10	Providing and fixing M.S. clamp of required dia made of 100 x10 mm flat to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete.		
	16.10.3	200 mm clamp.	each	1.0
	16.11	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).		
	16.11.1	100 mm dia	each	1.0
	16.16	Supplying, filling, spreading and leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads and lifts, all complete as per direction of Engineer-in-charge.	cum	14.6
	16.17	Supplying, filling, spreading and leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads and lifts, all complete as per direction of Engineer-in-charge.	cum	14.6
	16.18	Supplying, filling, spreading and leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads and lifts, all complete as per direction of Engineer-in-charge.	cum	14.6

	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :		
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	CUM	10.0
	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern and C.P. flush bend with fittings and C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :		
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid.	Each	1.0
	17.11	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
	17.11.12	Oval shape wash basin over counter/under counter with 15 mm C.P brass pillar tap (Counter to be paid sepratly)	Each	46.0
	17.32	Providing and fixing soil, waste and vent pipes :		
	17.32.1	100 mm dia. Pipe minimum wall thickness 5mm		
	17.32.1.2	Centrifugally cast (spun) iron socket and spigot (SandS) pipe as per IS: 3989.	meter	90.0
	17.32.2	75 mm dia Pipe minimum wall thickness 5mm		
	17.32.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	meter	150.0
	17.34	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :		
	17.34.1	For 100 mm dia. Pipe	each	36.0
	17.34.2	For 75 mm dia. Pipe	each	77.0
		Ground to top floor		
	17.35	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		
	17.35.1	100 mm dia minimum wall thickness 6.5mm		
	17.35.1.2	Sand cast iron SandS as per IS - 3989	each	10.0
	17.35.2	75 mm dia minimum wall thickness 6.5mm		
	17.35.2.2	Sand cast iron SandS as per IS- 3989	each	10.0
	17.36	Providing and fixing plain bend of required degree.		
	17.36.1	100 mm dia minimum wall thickness 6.5mm		
	17.36.1.1	Sand cast iron SandS as per IS - 1729	each	45.0
	17.36.2	75 mm dia minimum wall thickness 6.5mm		
	17.36.2.2	Sand cast iron SandS as per IS - 3989	each	45.0
	17.37	Providing and fixing heel rest sanitary bend		
	17.37.1	100 mm dia minimum wall thickness 6.5mm		
	17.37.1.2	Sand cast iron SandS as per IS - 3989	each	6.0

	17.37.2	75 mm dia minimum wall thickness 6.5mm		
	17.37.2.2	Sand cast iron SandS as per IS - 3989	each	6.0
	17.38	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
	17.38.1	100x100x100x100mm minimum wall thickness 6.5mm		
	17.38.1.2	Sand cast iron SandS as per IS - 3989	each	5.0
	17.38.2	75x75x75x75 mm minimum wall thickness 6.5mm		
	17.38.2.2	Sand cast iron SandS as per IS - 3989	each	5.0
	17.39	Providing and fixing double equal plain junction of required degree.		
	17.39.1	100x100x100x100mm minimum wall thickness 6.5mm		
	17.39.1.2	Sand cast iron SandS as per IS - 3989	each	6.0
	17.39.2	75x75x75x75 mm minimum wall thickness 6.5mm		
	17.39.2.2	Sand cast iron SandS as per IS - 3989	each	6.0
	17.53	Providing and fixing terminal guard:		
	17.53.1	100 mm		
	17.53.1.2	Sand cast iron SandS as per IS - 3989	each	5.0
	17.53.2	75 mm		
	17.53.2.2	Sand cast iron SandS as per IS - 3989	each	5.0
	17.54	Providing and fixing collar:		
	17.54.1	100 mm		
	17.54.1.2	Sand cast iron SandS as per IS - 3989	each	25.0
	17.54.2	75 mm		
	17.54.2.2	Sand cast iron SandS as per IS- 3989	each	45.0
	17.55	Providing lead caulked joints to sand cast iron/ centrifugally cast (spun) iron pipes and fittings of diameter:		
	17.55.1	100 mm	each	25.0
	17.55.2	75 mm	each	45.0
	17.57	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :		
	17.57.1	100 mm inlet and 100 mm outlet		
	17.57.1.2	Sand Cast iron SandS as per IS: 1729.	each	50.0
	17.57.2	100 mm inlet and 75 mm outlet		
	17.57.2.2	Sand Cast iron SandS as per IS- 1729.	each	46.0
	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm.		
	17.58.2	110 mm diameter (minimum wall thickness 3.2mm)	Meter	22.8
	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion		
	17.59.1	Coupler		
	17.59.1.2	110 mm	Each	4.0
	17.64	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.		
	17.64.2	Flexible pipe		

	17.64.2.1	32 mm dia	Each	49.0
	17.68	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shape with 6 mm thick hard board backing :		
	17.68.1	Circular shape 450mm dia.	Each	47.0
	17.78	Providing and fixing C.P. brass grating of approved quality and make conforming to IS:specification.		
	17.78.1	100 mm dia.	Each	50.0
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
		Concealed work including cutting chases and making good the walls etc.,		
	18.8.2	20 mm nominal outer dia .Pipes.	Meter	200.0
	18.8.3	25 mm nominal outer dia .Pipes.	Meter	180.0
	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall		
	18.10.4	32 mm nominal outer dia .Pipes.	Meter	65.0
	18.10.6	50 mm dia. nominal bore	Meter	50.0
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.External work :		
	18.12.6	50 mm dia. nominal bore	metre	65.0
	18.12.7	65 mm dia. nominal bore	metre	115.0
	18.32	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		
	18.32.4	50 mm nominal bore	each	2.0
	18.32.5	65 mm nominal bore	each	2.0
	18.34	Providing and fixing CPVC gate valve with knob of approved quality.		
	18.34.2	32 mm nominal bore.	Each	12.0
	18.34.4	50 mm nominal bore	Each	14.0
	18.36	Providing and fixing gun metal non- return valve of approved quality (screwed end) :		
	18.36.4	50 mm nominal bore		
	18.36.4.1	Horizontal	each	1.0
	18.36.4.2	Vertical	each	1.0
	18.36.5	65 mm nominal bore		
	18.36.5.1	Horizontal	each	1.0
	18.36.5.2	Vertical	each	1.0
	18.45	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :		
	18.45.6	50 mm diameter pipe	metre	65.0
	18.45.7	65 mm diameter pipe	metre	115.0
	18.46	Providing and filling sand all-round the G.I. pipes in external work.		
	18.46.6	50 mm diameter pipe	metre	65.0

	18.46.7	65 mm diameter pipe	metre	115.0
	18.47	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)		
	18.47.6	50mm nominal bore	each	12.0
	18.47.7	65mm nominal bore	each	20.0
	18.52	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931		
	18.52.1	15 mm nominal bore.	each	50.0
	18.82	Providing and fixing CP jet assembly to including connection etc complete.	Each	48.0
	19.4	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperataly.		
	19.4.2	160 mm diameter OD	RM	120.0
	19.5	Providing and laying cement concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:		
	19.5.2	160 mm diameter PVC. pipe	RM	260.0
	19.7	Providing and fixing square-mouth S.W. gully trap class SP1 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 :		
	19.7.3	180x150 mm size P type		
	19.7.3.1	With well burnt bricks	each	3.0
	19.8	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 sand) including testing of joints etc. complete :		
	19.8.2	150 mm dia. R.C.C. pipe	metre	120.0
	19.8.3	250 mm dia. R.C.C. pipe	metre	120.0
	19.9	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :		
	19.9.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
	19.9.1.1	With well burnt bricks	each	10.0

	19.11	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design :		
	19.11.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :		
	19.11.1.1	With well burnt bricks	each	10.0
	19.12	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m		
	19.12.1	With well burnt bricks	metre	10.0
	19.13	Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement :3 sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design :		
	19.13.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg. fixed in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		
	19.13.1.1	With well burnt bricks	each	15.0
	19.14	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :		
	19.14.1	With well burnt bricks	metre	15.0
	19.17	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :		
	19.17.1	With 20x20 mm square bar	each	18.0
	19.21	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality		
	19.21.1	L D- 2.5		
	19.21.1.1	Rectangular shape 600x450mm internal dimensions	each	2.0
	19.20	Supplying and fixing C.I. cover without frame for manholes :		

	19.20.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	each	1.0
	19.21	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality		
	19.21.1	L D- 2.5		
	19.21.1.1	Rectangular shape 600x450mm internal dimensions	each	2.0
	19.38	Providing & Fixing of Precast RCC drain cover of size 900x450 x90mm (thickness) with 8 holes, manufactured by using M-30 grade of concrete reinforced with two layers of 8mm dia Tor Steel @100mm c/c both ways, manufactured by vibro compaction process using joint less FRP moulds, so at to achieve shuttering finish on five faces @top face will have broom finish etc complete.	Each	705.0
	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top bottom pivot spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	sqm	21.6
	21.1	**SOR Item No 21.1 Page No. 362** 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 I paneling, C.P. brass I 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) :		
	21.1.1	For fixed portion.		
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15)	**KG**	2052.0
	21.1.2	For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber I neoprene gasket required (Fittings shall be paid for separately).		
	21.1.2.2	Powder coated aluminium (minimum thickness powder coating 50 micron)	**KG**	1641.6

	21.3	**SOR Item No 21.3 Page No. 362** 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) :		
	21.3.1	With float glass panes of 4.0 mm thickness	**Sqm**	205.2
	10.26	**SOR Item No 10.26 Page No. 182** Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete.		
	10.26.1	Galvanised M.S. Wire gauze with 0.63mm dia wire and 1.4 mm aperture on both sides	**sqm**	205.2
	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :		
		a) Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.		
		b) IInd course of 20mm cement plaster 1:3 (1 cement : 3 sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.		
		c) IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.		
		d) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) (with 5 years service guarantee)	Sqm.	511.5
	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.	Sqm.	700.4
	22.14	Grading roof for water proofing treatment with		0.0
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)	cum	35.0
	23.10	Grassing with selected type of grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately):		
	23.10.4	With grass Turf.		5.0

	23.2	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	Cum	107.1
	23.3	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced by 8% for payment).	Cum.	50.0
	23.4	Supplying and stacking at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment) :	Cum	78.5
	23.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	Cum	235.6
	23.9	Mixing earth and sludge or manure in proportion specified or directed.	Cum	235.6
	23.15.1	Any of one from Plameriya alba, fycus Benjameena, Malkikeya champa, Begnonia plumaric pudoca Plants (1.80mtrs to 2.10mtrs height.	Each	5.0
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini, Lantana varicated, Ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45 m)	Each	50.0
	23.15.3	Any of one from Hibiscus Vice Rai, Gul Phinia, Bamboo Varicated, Chandani Vericated, Hamilia Pattern, Bouganvellia, Canna Red/Yellow, Taqwamonasia. (height 0.3 m to 0.45 m)	Each	50.0
	23.15.4	Any of one from Spathodia, Silver Oak, Thuja, Golden Bottle Brush, Exora Red. (height 0.45 m to 0.60 m)	Each	50.0
	23.15.5	Any of one from Glerodendron, Allamamala New, Allamanda Bail, Thima Bouganvellia.	Each	20.0
	23.15.6	Any of one from Climetics, Venentora. (height 0.3 m to 0.45 m)	Each	50.0
	23.15.7	Foxtail Palm (1.80mtrs to 2.10mtrs height.)	Each	5.0
	23.15.8	Cycus (1.80mtrs to 2.10mtrs height.)	Each	5.0
	23.15.9	Ficus Varicated (1.80mtrs to 2.10mtrs height.)	Each	5.0
	23.15.10	Casia Biflora (0.45mtrs to 0.60 mtrs height.)	Each	50.0
	23.18	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and levelling (cost of supplying earth and sludge or manure and mixing excluded).	Cum	85.6
	23.21	Supplying and stacking of well decayed cow dung manure at site including royalty and carriage upto 1 km (Cow dung manure measured in stacks will reduced by 8% for Payment).	Cum.	50.0

	23.23	Providing and fixing M. S. tree guard 50 cm square in plan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos. of angle iron of size 25x25x5 mm 1.9 long, one at Each corner and 8 nos. flat iron of size 25x5 mm 1.4 long. The vertical members shall be welded to 4 nos. 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground , including refilling the earth, compaction etc. complete. The tree guard shall be painted with two coats of paint of approved brand and manufacture over a coat of primer, complete in all respect.	Each	20.0
	25.2	Providing and fixing white vitreous china pedestal type Anti germ Fluoro-Polymer Coated Water Closet (European type W. C. pan size 390 X 365 X 540 MM) with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propeline) made 80 mm thick consealed flushing cistern, flushing capcity 3 litre/6 litre, with all fittings and fixures complete including cutting and making good the wall and floors wherever required :		
	25.2.1	Anti germ Fluoro-Polymer Coated (neno coating) European W. C. Size 390 X 365 X 540mm with solid poly propelyne made soft closing seat cover	each	12.0
	25.11	Providing and fixing white vitreous china Flat Back Anti germ Fluoro-Polymer Coated urinal (Inbuilt spreaders, Inbuilt Bottle trape and inbuilt ceramic Waste coupling) Size 670 X 330 X325 mm with 15mm Brass made presmatic auto closing consealed urinal flush valve with wall flange (Decol technology, 400000 operation warranted) complete including painting of fittings and brakets, cutting and making good the wall and floors wherever required :		
	25.15	Providing & Fixing 8mm thick froasted Urinal glass partition size 900x450mm brass made bracket with crome plating.	each	6.0
	25.19	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) two wayBib cock.	each	36.0
	25.20	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating. 10 micron and chrome plating 0.3 micron, quarter turn)Angular stop cock.	each	86.0
	25.53	Providing and fixing in position best indian C. P. Brass made (0.3 micron Chrom and 10 micron Nickel plated) Single Towel Ring Square .	each	46.0
	25.55	Providing and fixing in position best indian C. P. Brass made (0.3 micron Chrom and 10 micron Nickel plated) Soap Dispenser with Metallic Bottle .	each	46.0
	25.58	Providing and fixing in position best indian C. P. Brass made (0.3 micron Chrom and 10 micron Nickel plated) Toilet Roll Holder .	each	16.0

	25.59	Providing and fixing in position best indian C. P. Brass made (0.3 micron Chrom and 10 micron Nickel plated) Glass Self size 600mm with toughened glass	each	31.0
	25.63	providing and Fixing Frosted safety 8mm Glass made Urinal Partition Size 900mm Height and 450mm width.	Each	6.0
		FIRE FIGHTING		
	26.1	Providing laying, testing and commissioning of 'C' class heavy duty MS pipe confirming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including excavation and providing cement concrete blocks as supports, at prescribed intervals and anticorrosive treatment with coal tar/asphalt tape as per IS 10221, with 4mm thick fiber reinforced tape and l2rnn1 overlap and refilling the trench etc. of the following sizes complete as directed by Engineer-in-Charge.		
	26.1.1	200mm dia	metre	25.0
	26.1.2	150mm dia	metre	75.0
	26.1.3	80mm dia	metre	30.0
	26.3	Providing laying, testing and commissioning of class 'C' heavy duty MS pipe confirming to IS 3589/1239 including fittings like elbows, tees, flanges, tapers, nuts bolts, gasket etc. fixing the pipe on the wall/ceiling with suitable clamps and painting with		
	26.3.1	200mm dia	metre	30.0
	26.3.2	150mm dia	metre	30.0
	26.3.3	100mm dia	metre	65.0
	26.3.4	80mm dia	metre	65.0
	26.3.6	50mm dia	metre	125.0
	26.3.7	40mm dia	metre	150.0
	26.3.9	25mm dia	metre	225.0
	26.4	Supplying and fixing single headed internal hydrant valve with instaneous Gun metal couplings of 63mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank gunmetal cap and chain as required.	each	4.0
	26.5	Supplying and fixing single headed external yard hydrant valve with 1 no. 63mm dia instaneous FM Gun metal coupling and cast iron wheel, ISI marked confirming to IS 5290 (Type -A) with blank gunmetal cap and chain as required.	each	6.0
	26.6	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze/Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required.		
	26.6.1	200 mm dia	each	2.0
	26.6.2	150 mm dia	each	4.0
	26.6.3	80 mm dia	each	7.0
	26.7	Supplying and fixing orifice plate made of 6mm thick stainless steel with orifice of required size in between flanged and landing valve of external and internal hydrant to reduce pressure to working pressure of 3.5 kg/cm complete as per specification	each	7.0

	26.8	Providing, installation, testing and commissioning of dual plate non-return valve of following sizes confirming to IS 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.		
	26.8.1	200 mm dia	each	1.0
	26.8.2	100 mm dia	each	1.0
	26.8.3	80 mm dia	each	1.0
	26.10	Providing, installation, testing and commissioning of gun metal valves of following sizes as required.		
	26.10.1	50 mm dia	each	7.0
	26.10.2	25 mm dia	each	7.0
	26.11	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe with 63mm dia male and female gun metal couplings duly binded with GI wire, rivets etc. confirming to IS 636 (type-A)as required.	each	7.0
	26.12	Supplying and fixing first -Aid hose reel with MS construction spray painted in post office red, confirming to IS 884 with upto date amendments, complete with the following as required.	each	7.0
		a) 20/30/40m long 20mm (nominal internal) dia water hose thermoplastic (textile reinfirced) type -2 as per IS 12585		
		b) 20mm (nominal internal) dia gun metal globe valve and nozzle.		
		c) Drum and brakets for fixing the equipments on wall.		
	26.13	Supplying and fixing hose cabinet of size 900mmx600mmx500mm made of 2 mm thick MS sheet with 6 mm thick glazed glass doors i/c necessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 nos. 15mtr. Long hose pipe, 1 no	each	6.0
	26.14	Supplying and fixing 63mm gun metal branch pipe with 20 mm (nominal internal diameter) size gun metal nozzle conforming to IS 903, suitable for instaneous connection to interconnect hose pipe coupling as required.	each	11.0
	26.15	Supplying and fixing 4 way fire brigade connection of cast iron body with 4 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.	each	2.0
	26.16	Supplying and fixing 2 way FBC of CI body with 2 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.	each	2.0
	26.17	Supplying and fixing air vessel made of 250 mm dia, 8mm thick MS sheet, 1200 mm. in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia gun metal wheel valve, with required accessories, pressure gauge a	each	2.0
	26.18	Providing fixing testing and commissioning of 15 mm size quartzoid bulb type sprinklers, of rating 68 degree C. pendent with required accessories.	each	175.0
	26.19	Providing and fixing Pressure switch in the MS pipe Line including connection etc. as required.	each	15.0
	26.20	Providing and fixing flow switches in 100/150mm dia MS pipe.	each	15.0

	26.22	Providing and fixing angle iron (40mmx40mm x5mm) door frame and MS sheet (2mm thick) cum glass shutter of size 2.1 mtr. X 1.2mtr. (N.S.) with 25mmx25mmx3mm angle frame all around and stiffened in between i/c hinges, handle, locking arrangement, painting wit	each	6.0
	26.23	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge no		
	26.23.1	Capacity 4.5 Kg.	each	6.0
	26.24	Providing and fixing of ABC Powder type fire extinguishers consisting of welded M.S. cylinderical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle		
	26.24.1	Capacity 5.0 Kg.	each	6.0
		Signage		
	SOR 13.85	Providing and Applying Roto Wall finishing system being a dispersion of inorganic fillers, calcite, pure silica, quartz and broad spectrum fungicides stabilized by an acrylic co-polymer, to be applied by means of customized trowels (one for incorporating material on base and spreading and other for finishing) in single coat with a coating thickness of 2.0-2-2.5mm on a cured smooth level plaster without keying, by the approved applicator of manufacturer, of the approved shade as per directions for usage all inclusive including primer coat on the base.		
		Add Extra for 3.5 to 4.0 mm Thickness	Sqm.	2219.7
	27.9	Providing and fixing Stainless steel plate 304grade of 1.50mm thick, including writing with Embossing of letters of required size including fixing at required placed with studs, screws and rawl plugs etc. compete as per direction of engineer-in-charge.	Sqm	16.2
	27.1	Providing and fixing of name plate for offices name of Stainless steel plate 304 grade of 1.50mm thick, including writing with computerized vinayle sheet letters of required size including fixing at required placed with studs, screws and rawl plugs etc. compete as per direction of engineer incharge.	Sqm	8.4
	27.11	Providing and fixing Aluminum composite panels Silver colour with matte finish, 3mm thick, (0.25mm 2.5mm and 0.25mm) sheet for name plate including writing with computerized vinayle sheet letters of required size including fixing at required placed with 1.25m Chromium plated Steel Pipe 15mm dia, compete as per direction of engineer-in-charge.	Sqm	9.2
	27.13	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade-304) Jindal or equivalent. Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall beam surface at any height with necessary nut and bolts/fasterner wherever is required complete as per direction of Engineer-in-charge.	Per letter per cm hight	1575.0

M.P. State Agricultural Marketing Board, Bhopal

Appendix 2.10

Tender Document

For Percentage Rate only in Works Departments and other Departments similar to Works Departments

(EFFECTIVE FROM 01/01/2019)

OFFICE OF THE EXECUTIVE ENGINEER

M.P. State Agricultural Marketing Board Tech. Division NO 02 BHOPAL

NIT Number and Date : 1219 date 05-12-19

Agreement Number and Date :

Name of Work : CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL

A. Main Building and outer development work cost **Rs. 66100605.00**

B. Road Work **Rs. 1676491.00**

C. Internal and External Electrical work **Rs. 12886287.00**

D. Non SOR Item Rs. 7711271.00

Name of the Contractor : _____

Probable Amount of Contract

(Rs. In Figure) : 8.84 crore

(Rs. In Words) : Eight Crore Eighty Four Lakh

Contract Amount (Rs. In Figure) : _____

(Rs. In Words) : _____

Stipulated Period of Completion: 20 month

SUPRINTENDING ENGINEER

Appendix 2.10

Tender Document

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SECTION 1
Notice Inviting e-Tenders

OFFICE OF THE Executive Engineer
M.P. State Agricultural Marketing Board Tech. Division No. **02, Bhopal**

N.I.T. No /e-tendering/1219 dated 05 -12-19

Online percentage rate bids for the following works are invited from registered contractors and firms of repute fulfilling registration criteria. AS PER DETAILED NIT & INSTRUCTIONS.

S. No.	Tender System No.	Work	District(s)	Probable Amount (Rs. in Crore)	Completion Period , Including Rainy Season
1	2019_MPSAM_67728	CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL **A**. Main Building and outer development work cost **Rs. 661.00 LAKH** B. Road Work **Rs. 16.76 LAKH** C. Internal and External Electrical work **Rs. 128.86 LAKH** **D. Non SOR Item Rs. 77.11 LAKH**	Bhopal	8.84	20 Months

1. Interested bidders can view the NIT on website http:// mptenders.gov.in
2. The Bid Document can be purchased only online from *11:00 AM*(time)06-12-19(date) to *17:30* (time) 27-12-19(date).
3. Amendments to NIT, if any, would be published on website - http:// mptenders.gov.in and Mandi Board Portal "https://mpmandiboard.gov.in / https://mpmandiboard.co.in/ only, and not in newspaper.
4. *receipt of earnest money deposit, online payment at portal for the cost of bid document ,E.P.F. & E.S.I. Registration Certificate, affidavit and other document shall be submitted by the bidder by Only* ***Govt. registered/speed post only (not by private courier or by hand)*** *so as to reach the office as prescribed in Bid Data Sheet.*
5. **Applicable SOR** –

(A) **For Building Works :**- M.P. PWD BUILDING SOR ENFORCE From 01.08.2014 WITH AMENDMENT up to date of issue of N.I.T.
(B) **For Road Work :** SOR issued by M.P. PW.D. for Road work in force from 29.08.17 Amendment up to date of issue of N.I.T
(C) **For Electrical Works** - M.P.P.W.D. (E/M) S.O.R. for Electrical works in forced from 01.08.2014. and Amendment upto date of issue of N.I.T.
(D) **Non SOR ITEMS;- Quoted tender rate is also applicable on Non SOR Items. Non SOR items as attached in Annexure Z.**

Executive Engineer
M.P. State Agricultural Marketing Board
Tech. Division No.2, Bhopal

SUPRINTENDING ENGINEER

Notice Inviting e-Tenders

OFFICE OF THE Executive Engineer M.P. State
Agricultural Marketing Board Tech. Division No. **02, Bhopal**

N.I.T. No /e-tendering/1219 dated 05-12-19

Online Percentage Rate E-Tenders are invited from contractors registered with the office of the Engineer in Chief, M.P. Public Works Department, Government of Madhya Pradesh(Centralized Registration Cell) for the following Works so as to be received online up to 05:30 PM on 27-12-19 The Tender Document can be obtained online on the https://mptenders.gov.in as per the Notice published on the above portal and Detailed information can also be seen on website www.mpmandiboard.gov.in and www.mpmandiboard.co.in

Tender ID	Name of Work and Place	Probable Amount of Contract (Rs. in Crore)	Earnest Money Deposit (EMD) (In Lakh)	Cost Of Bid Document (In Rupees)	Time Period , Including Rainy Season
2019_MPSAM_67728	CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL **A**. Main Building and outer development work cost **Rs. 661.00 LAKH** B. Road Work **Rs. 16.76 LAKH** C. Internal and External Electrical work **Rs. 128.86 LAKH** **D. Non SOR Item Rs. 77.11 LAKH**	8.84 Crore	8.84 Lakh	20,000.00	20 Month

Note:- Any corrigendum in this NIT, If required, shall be displayed only in our above portals regarding any matter included in this NIT or otherwise. Other Details of Construction/Development works and locations & key dates can also be seen on our website www.mpmandiboard.gov.in and www.mpmandiboard.co.in

(i) Details of Construction/Development works and Locations may be seen in Office of Executive Engineer MP State agricultural marketing board Technical Division no. 02, Bhopal. Dist. Bhopal

(ii) All details relating to the Bid Document can be viewed and Downloaded free of Cost on the website.

(iii) Bid document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/ internet banking.

(iv) At the time of submission of the bid the eligible bidder shall be required to :

a. Receipt of pay the cost of Bid Document;
b. Receipt of pay the Earnest Money deposit . Scanned copy of EMD instrument shall be uploaded online along with the reference details.
c. Submit a check list
d. Organization detail as per Annexure-H
e. E.P.F., E.S.I. & G.S.T. Registration Certificate.
f. Submit the Physical copy of affidavit on non-judicial stamp of Rs. 50/- Duly Notarized in original saying that all submitted /uploaded document with technical bid physically & online are correct in my knowledge & no relationship certificate between dept. employee & officer with him.
g. Self Attested Copy of valid for appropriate class Registration, Registererd with the office of ENC, MP PWD, BHOPAL Govt. Of MP (Registration valid upto Bid Submission End date)
h. In case of Internal And External Electrification in Building work the Bidder shall required to submit an Valid "A" Class Electric License of any person or employee issued by the Chief Electrical Adviser to the state Government of Madhya Pradesh.

(V) Online Bidders have to submit the Physical Copy of Documents mentioned in technical Bid And Above. The Last Date to receive the Hard copy of all Documents is upto 5:30PM on 30.12.2019 Through Speed/Registered Post (not by Private courier or by Hand) only at the office of Executive Engineer MP State Agricultural Marketing Board Technical Division No. 02, Bhopal.

(VI) Additional Special Condition of contract BIDDER ARE REQUIRED TO OFFER THEIR BIDS EXCLUSIVE OF APPLICABLE GST. THE GST SHALL BE PAID BY THE DEPT. TO THE CONTRACTOR SEPARATELY.

SUPRINTENDING ENGINEER

(vii) Terms & Conditions Applicable as per detailed tender documents.

(viii) Note:- **Note :- M.P. P.W.D. Order and Circulars from 1 to 18(except Sl.No. 12 regarding ICICI Bank) adopted by Mandi Board wide order no/ nirman/e-tendering/ 458 dated 15-02-17 issued by Chief Engineer M.P. State Agricultural Marketing Board Bhopal and Requirement of EPF & ESI Registration Certificate vide Engineer-in-Chief, M.P.State Agricultural Marketing Board, Bhopal letter No./Nirman/ Ni.Vi./EPF-ESI/17-18/2498 Dated 20.11.2017 and GST deduction from RA/Bill vide letter no. 592 Dt. 05.10.2018 are applicable.**

(ix) The bidders are required to quote only one rate of percentage Above/below/at par on the following Schedule of Rates issued by the M.P.P.W.D. building S.O.R. enforced from 01.08.2014 and Amendment upto date of issue of N.I.T.

(x) Pre-qualification:- Prequalification conditions are Applicable as per Bid Data Sheet (Annexure-C clause A & B)

Applicable SOR –

(A) For Building Works :- M.P.P.W.D. building S.O.R. enforced from 01.08.2014 and Amendment upto date of issue of N.I.T.

(B) For Road Work : SOR issued by M.P.PW.D. for Road work in force from 29.08.2017 Amendment up to date of issue of N.I.T

(C) **For Electrical Works - M.P.P.W.D. (E/M) S.O.R. for Electric works in forced from 01.08.2014 and Amendment** upto date of issue of N.I.T. Also Applicable.

(D) **Non SOR ITEMS;- Quoted tender rate is also applicable on Non SOR Items. Non SOR items as attached in Annexure Z.**

KEY DATES:

1	**Publishing Date**	06-Dec-2019 10:30 AM	**2**	**Document Download / Sale Start Date**	06-Dec-2019 11:00 AM
3	**Bid Submission Start Date**	06-Dec-2019 11:00 AM	**4**	**Bid Submission Closing Date**	27-Dec-2019 05:30 PM
5	**Bid Opening Date**	31-Dec-2019 11:30 AM			

Executive Engineer
M.P. State **Agricultural** Marketing Board
Tech. Division No.2, Bhopal

Section 1 – NIT

SECTION 2

INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

1. SCOPE OF BID

The detailed description of work, hereinafter referred as 'work', is given in the Bid Data Sheet.

2. General Quality of Work:

The work shall have to be executed in accordance with the technical specifications specified in the Bid Data sheet/ Contract Data, and shall have to meet high standards of workmanship, safety and security of workmen and works.

3. PROCEDURE FOR PARTICIPATION IN E-TENDERING

The procedure for participation in e-tendering is given in the Bid Data Sheet.

4. ONE BID PER BIDDER

The bidder can be an individual entity or a joint venture (if permitted as per Bid Data Sheet). In case the J.V. is permitted, the requirement of joint venture shall be as per the Bid Data Sheet.

No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand disqualified.

5. Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of his bid, and no claim whatsoever for the same shall lie on the Government.

6. Site Visit and examination of works

The bidder is advised to visit and inspect the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the work. All costs in this respect shall have to be borne by the bidder.

B. Bid Documents

7. CONTENT OF BID DOCUMENTS

The Bid Document comprises of the following documents:

1. NIT with all amendments.
2. Instructions to Bidders, Bid Data Sheet with all Annexure
3. Conditions of Contract:

i. Part I General Conditions of Contract and the Contract Data with all Annexure and

ii. Part II Special Conditions of Contract.

4. Specifications
5. Drawings
6. Priced Bill of Quantities
7. Technical and Financial Bid
8. Letter of Acceptance
9. Agreement, and
10. Any other document(s), as specified.

8. The bidder is expected to examine carefully all instructions, conditions of contract, the **contract data**, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Bidder shall be solely responsible for his failure to do so.

9. Pre-Bid Meeting (where applicable)

Wherever the Bid Data Sheet provides for pre-bid meeting:

Details of venue, date and time would be mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid meeting would be communicated on the website only, and intimation to bidders would not be given separately.

Any prospective bidder may raise his queries and/or seek clarifications in writing before or during the pre-bid meeting. The purpose of such meeting is to clarify issues and answer questions on any matter that may be raised at that stage. The Employer may, at his option, give such clarifications as are felt necessary.

Minutes of the pre-bid meeting including the gist of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.

Pursuant to the pre-bid meeting if the Employer deems it necessary to amend the Bid Document, it shall be done by issuing amendment to the online NIT.

10. Amendment of Bid Documents

Before the deadline for submission of bids, the Employer may amend or modify the Bid Documents by publication of the same on the website.

All amendments shall form part of the Bid Document.

The Employer may, at its discretion, extend the last date for submission of bids by publication of the same on the website.

C. Preparation of Bid

11. The bidders have to prepare their bids online, encrypt their Bid Data in the Bid Forms and submit Bid Seals (Hashes) of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice Inviting e-Tenders after signing of the same by the Digital Signature of their authorized representative.

12. DOCUMENTS COMPRISING THE BID

The bid submitted online by the bidder shall be in the following parts:

Part 1 – This shall be known as Online **Envelope A** and would apply for all bids Online **Envelop A** shall contain the following as per details given in the Bid Data Sheet:

a. Registration number or proof of application for registration and organizational details in format given in the Bid Data Sheet.
b. Payment slip for the cost of Bid Document;
c. Earnest Money and
d. Submit an affidavit on non-judicial stamp of Rs. 50/- Duly Notarized in original.
e. EPF, ESI & GST Registration certificate with Registration Number.

Part 2 – This shall be known as Online **Envelope B** and required to be submitted only in works where pre-qualification conditions and/or special eligibility conditions are stipulated in the Bid Data Sheet. Online **Envelop B** shall contain a self-certified sheet duly supported by documents certified by the Concerned Department's Officer not below the rank of Executive Engineer to demonstrate fulfillment of pre-qualification conditions.

Part 3 – This shall be known as Online **Envelope C** and would apply to all bids. **Envelop C** shall contain financial offer in the prescribed format enclosed with the Bid Data Sheet.

13. Language

The bid as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer shall be in English or Hindi. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English. In such case, for the purposes of interpretation of the bid, such translation shall govern.

14. TECHNICAL PROPOSAL

Only, in case of bids with pre-qualification conditions defined in the Bid Data Sheet, the Technical Proposal shall comprise of formats and requirements given in the Bid Data Sheet.

All the documents/ information enclosed with the Technical Proposal should be self-attested and certified by the bidder. The Bidder shall be liable for forfeiture of his earnest money deposit, if any document / information are found false/ fake/ untrue before acceptance of bid. If it is found after acceptance of the bid, the bid sanctioning authority may at his discretion forfeit his performance security/ guarantee, security deposit, enlistment **deposit** and take any other suitable action.

15. FINANCIAL BID

i. The bidder shall have to quote rates in format referred in Bid Data Sheet, in overall percentage, and not item wise. If the bid is in absolute amount, overall percentage would be arrived at in relation to the probable amount of contract given in NIT. The overall percentage rate would apply for all items of work.

ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found, lower of the two shall be taken as valid and correct.

iii. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies; and the Employer shall not be liable for the same.

iv. The material along with the units and rates, which shall be issued, if any, by the department to the contractor, is mentioned in the Bid Data Sheet.

16. PERIOD OF VALIDITY OF BIDS

The bids shall remain valid for a period specified in the Bid Data Sheet after the date of "close for biding" as prescribed by the Employer. The validity of the bid can be extended by mutual consent in writing.

17. EARNEST MONEY DEPOSIT (EMD)

The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD), in the amount specified in the Bid Data Sheet.

The EMD shall be in the form of Online Transfer in to given Scheduled Bank Account or Fixed Deposit Receipt or Demand Draft of a scheduled commercial bank issued in favour of the name given in the Bid Data Sheet. The Fixed Deposit Receipt shall be valid for six months or more after the last date of receipt of bids. However, other form(s) of EMD may be allowed by the Employer by mentioning it in the Bid Data Sheet. If EMD Submitted other then online transfer form, physical form of EMD document must be submitted in envelop A to the giving name and address as in Bid Data Sheet.

Bid not accompanied by EMD shall be liable for rejection as non-responsive.

EMD of bidders Except L-1 Must be returned immediately After Opening of the Financial bid.

EMD of the successful Bidder will be discharged when the Bidder has signed the Agreement after furnishing the required Performance Security.

Failure to sign the contract by the selected bidder, within the specified period, for whatsoever reason, shall result in forfeiture of the earnest money deposit.

D. Submission of Bid

18. The bidder is required to submit online bid duly signed digitally, and Envelop 'A' in physical form also at the place prescribed in the Bid Data Sheet.

E. Opening and Evaluation of Bid

19 PROCEDURE

Envelope 'A' shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelop 'A' does not contain all requisite documents, such bid shall be treated as non-responsive, and Envelop B and/or C of such bid shall not be opened.

Wherever Envelop 'B' (Technical Bid) is required to be submitted, the same shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop 'B'. Envelop 'C' (Financial Bid) of bidders who are not qualified in Technical Bid (Envelop 'B') shall not be opened.

Envelope 'C' (Financial Bid) shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop 'C'.

After opening Envelop 'C' all responsive bids shall be compared to determine the lowest evaluated bid.

The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all the bids at any time prior to contract award, without incurring any liability. In all such cases reasons shall be recorded.

The Employer reserves the right of accepting the bid for the whole work or for a distinct part of it.

20. Confidentiality

Information relating to examination, evaluation, comparison and recommendation of contract award shall not be disclosed to bidders or any other person not officially concerned with such process until final decision on the bid.

Any attempt by a bidder to influence the Employer in the evaluation of the bids or contract award decisions may result in the rejection of his bid.

F. Award of Contract

21. Award of Contract

The Employer shall notify the successful bidder by issuing a 'Letter of Acceptance' (LOA) that his bid has been accepted.

22. Performance Security

Prior to signing of the Contract the bidder to whom LOA has been issued shall have to furnish performance security of the amount in the form and for the duration, etc. as specified in the Bid Data Sheet.

Additional performance security, if applicable, is mentioned in the Bid Data Sheet and shall be in the form and for the duration, etc. similar to Performance Security.

23. Signing of Contract Agreement

The successful bidder shall have to furnish Performance Security and Additional Performance Security, if any and sign the contract agreement within 15 days of issue of LOA On non-judicial stamp as per guide line of MAHA Nirikshak, Panjiyan, M.P. Letter No. 1502/ Tech-11/2016 dated 22-03-16.

The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the Employer to the contractor for commencement of work.

In the event of failure of the successful bidder to submit Performance Security and Additional Performance Security, if any or sign the Contract Agreement, his EMD shall stand forfeited without prejudice and debar for one year in the departmental tender and to the right of the employer for taking any other action against the bidder.

24. CORRUPT PRACTICES

The Employer requires that bidders observe the highest standard of ethics during the procurement and execution of contracts. In pursuance of this policy, the Employer:

i. may reject the bid for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and

ii. may debar the bidder declaring ineligible, either indefinitely or for a stated period of time, to participate in bids, if it at any time determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, a contract.

For the purposes of this provision, the terms set forth above are defined as follows:

a. "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;

b. "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

c. "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

d. "Collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

BLACK LISTIN/SUSPENSION (As per Secretry MP Govt. PWD Letter No. F 17-1/2010/19/B/244 Bhopal Dated 24.03.2015)

I. The affidavit/self declaration contains any false information of suppresses any material information. (As per Secretary MP Govt. PWD Letter No. F 17-1/2010/19/B/244 Bhopal Dated 24.03.2015

II. Such bidder, whose bid is accepter, fails to execute the agreement. The suspension will be in addition to forfeiture of his earnest of his earnest money of any other penalty imposed as per the tender condition.

III. Contractor fails to renew the securities deposited to the department.

IV. If documents submitted are found to be false.

V. The contractor is found to be non-serious in executing the agreement work or leaves the agreement work incomplete. Irrespective of the expiry of the full contract period.

VI. The contactor fails to rectify any lapse (s) in quality of the work done within a reasonable time.

VII. Contractor fails to maintain/repair/re do the work upto the expiry of performance guarantee period, when it is specifically brought to his notice.

VIII. On any other ground which is considered reasonable after recording reason.

Note:-

(a) During the period of suspension neither his registration will be renewed nor fresh registration will be issued.

(b) Black listed contractor will not be allowed fresh registration or renewal of his registration till order of black listing is revoked or cancelled.

(c) Contractor of firms black listed or suspended or any of its partners will not be registered under any other name.

(d) Period of suspension should be for a definite period.

(e) **Remedy / Appeal: -** As per clause 12 Page No. 46 Of Tender Form (Dispute Resolution System) & Contract Data Sheet GCC Clause 36 & 41.

[End of ITB]

Bid Data Sheet

GENERAL

SR. No.	PARTICULARS	DATA	
1	Office Inviting Tender	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02 Bhopal**	
2	NIT No.	1219 date 05.12.19	
3	Date of NIT	05.12.19	
4	Bid document download available from date & time	06.12.19	11:00am
5	Website link	http:// mptenders.gov.in	

SECTION 1 - NIT

NIT CLAUSE	PARTICULARS	DATA
2	Portal Fees (also known as processing fee)	As notified in E-Tendering Website
3	Cost of Bid Document	**Rs. 20,000.00**
	Cost of Bid Document Payable at	**ONLINE PAYMENT MODE**
	Cost of Bid Document In favour of	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02 Bhopal**
4	Affidavit Format	As per 'Annexure- B'
5	Pre-qualifications required	YES/NO, if yes required as below :- (a) In case **of Roads and Bridge** works costing Rs. One Crore and above (b) In case of **Building** works costing Rs. Fifty lacks and above. (c) In case of combination of Road, bridge works and Building work costing Rs. One Crore and above. (d) In case of External Electrification, Pole shifting and Central Lighting Rs. Fifty Lacks and above
	If Yes, details	As per' Annexure- C' (Evaluation by **Executive Engineer/Assistant Engineer** ……. Division, who will intimate reasons to disqualified bidders) (a) Finaancial by Accoutant/Sr. Auditor (b) Technical by upto Rs. 50 Lacs Assistant Engineer & more than Rs. 50 Lacs Executive Engineer.
6	Special Eligibility (if yes, prior permission of Engineer-in-Chief/Chief Engineer, MP State Agricultural Marketing Board, Bhopal required)	YES / NO
	If Yes, details	As per 'Annexure -D'
6 a	Special conditions Of Building work	YES, As per Letter no. F-6-11/2015/nivida/vishesh shrat/sa/pd/1242 dated 15-12-15 of Project Director PWD, PIU, M.P. Bhopal and Secretary MP PWD Bhopal Letter No. 7666/2464/2015/19/yo dated 10-12-15 Known as Special conditions 10-12-15 for building work.
7	Key dates	As per 'Annexure -A'

SUPRINTENDING ENGINEER

Bid Data Sheet

SECTION 2 - ITB

ITB CLAUSE	PARTICULARS	DATA
1	Name of the 'Work'	CONSTRUCTION OF GUEST HOUSE CUM TRAINING CENTRE NEAR AIIMS, BHOPAL
2	Specifications	As per 'Annexure – E' in addition to as below: **(a)** In case of **Roads and Bridge** works: **'SPECIFICATION FOR ROAD AND BRIDGE WORK (fifth Revision) By MORTH** **(b)** In case of **Building** works: **SPECIFICATION FOR BUILDING WORKS By CPWD** (In case of special Building works prior permission From Engineer-in-Chief / Chief Engineer) **(c)** Stipulation by **SOR in Force**
3	Procedure for participation in e-tendering	As per 'Annexure – F'
4	Whether Joint Venture is allowed.	YES/No, IF YES allowed as below: 1) In case of **Roads and Bridge** works costing more than **Rs. twenty five Cr**. and **2)** In case of **Prefab** and **Special Building** works costing more than **Rs. two Cr**. 3) In case of Combine Road, Bridge & Building work Costing more than Rs. 10 Cr. (in case of special Building works prior permission from Engineer-in-Chief / Chief engineer, MP State Agricultural Marketing Board, Bhopal required)
	If yes, requirement for Joint Venture	As per 'Annexure – G'
12	**Envelope-A** containing : i.Registration Number or proof of application for registration and Organizational details as per 'Annexure H' ii. Cost of Bid Document iii. EMD iv. An affidavit duly notarized as per 'Annexure- B' v. EPF & ESI Registration Certificate should reach in physical form	***Physical documents as per given in envelope shall be delivered by Only Govt. registered / speed post so as to reach the office of*** **Executive Engineer M.P. State Agricultural Marketing Board, Tech. Division no. 02, Bhopal** **up to 5.30 pm. on date 30.12.19**
13	**Envelope-B** Technical Proposal	As per 'Annexure - I' and Annexure - I (Format I-1to I-5)
14	**Envelope-C** Financial Bid	As per 'Annexure - J '
	Materials to be issued by the department	As per 'Annexure - K '
	If Yes	As per 'Annexure - K'
15	Period of Validity of Bid	**120 Days from the date of received Of Bid**

SUPRINTENDING ENGINEER

Bid Data Sheet

ITB CLAUSE	PARTICULARS	DATA
16	Earnest Money Deposit	**Rs 8.84 lakh**
17	Forms of Earnest Money Deposit	(i) Online transfer in the given Scheduled Bank Account (ii). FDR/ e-FDR, of scheduled commercial bank (iii). Demand draft of scheduled commercial bank (iv). Interest bearing securities of post office.
	If EMD transferred online, Then Bank Detail of Employer	(i) Account no. …….. (ii) IFSC …… (iii) Bank name…….. …… (iv) Branch With code…… …… (v) Account Holder's Name…….. ……
18	EMD valid for a period of	**Six months or more**
19	FDR must be drawn in favour of	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division ……**
21	Letter of Acceptance (LOA)	As per 'Annexure -L'
22	Amount of Performance Security	**5%** of Contract Amount for Road and Bridge works; **5%** of the Contract Amount for building works.
	Additional Performance Security, if any	Equal to an amount arrived at, by multiplying the contract amount with difference of percentage between percent rates (below/minus) of successful bid and Fifteen percent (below/minus), considering bid rates less than Fifteen percent below PAC, to be unworkable and shall require additional performance security (guarantee). in favour of Executive Engineer, Technical Division, ……..
	Performance Security in the format	As per 'Annexure- M'
	Performance Security in favour of	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division No. 02 Bhopal**
	Performance Security valid up to	Performance Guarantee (Security) Valid Up to 3 Months Beyond the Completion of defect liability Period (Maintenance Period)
	Additional Performance Guarantee Valid Up to	Additional Performance Guarantee Valid Up to Stipulated time of completion plus 3 months.
	Refund of Additional Performance Security	Additional Performance Guarantee is to be released after 3 months of issuing Physical Completion Certificate by the Executive Engineer.

Annexure – A

(*See clause 1, 7 of Section 1 -NIT*)

KEY DATES

1	**Publishing Date**	06-Dec-2019 10:30 AM	**2**	**Document Download / Sale Start Date**	06-Dec-2019 11:00 AM
3	**Bid Submission Start Date**	06-Dec-2019 11:00 AM	**4**	**Bid Submission Closing Date**	27-Dec-2019 05:30 PM
5	**Bid Opening Date**	31-Dec-2019 11:30 AM			

Physical documents as per given in envelope shall be delivered by Only Govt. registered / speed post so as to reach the office of **Executive Engineer M.P. State Agricultural Marketing Board, Tech. Division no. 02, Bhopal up to 5.30 pm. on date 30.12.19**

SUPRINTENDING ENGINEER

Annexure – B
(*See clause 3 of Section 1 -NIT*)

|| AFFIDAVIT ||

(To be Contained in Envelope A)

(On Non Judicial Stamp of Rs. 50)

I/we_____who is/ are _____(status in the firm/ company) and competent for submission of the affidavit on behalf of M/S_____(contractor) do solemnly affirm an oath and state that:

I/we am/are fully satisfied for the correctness of the certificates/records submitted in support of the following information in bid documents which are being submitted in response to notice inviting e-tender No. _____ for _____ (name of work) dated _____ issued by the _____(name of the department).

I/we am/ are fully responsible for the correctness of following self-certified information/ documents and certificates:

1. That the self-certified information given in the bid document is fully true and authentic.
2. That:
   a. Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.
   b. Information regarding financial qualification and annual turnover is correct.
   c. Information regarding various technical qualifications is correct.
   d. The E.P.F. Registration No. is……,E.S.I. Registration No is…… & .G.S.T. Registration No is…….
3. No close relative of the undersigned and our firm/company is working in the department. **OR**
   Following close relatives are working in the department:
   Name_____Post_____Present Posting _____
4. That, I/We/Firm is not black listed by any department
   OR
   I/We/Firm is black Listed by the .....(Department) for a period ……. Month/Year and Such time Period lapsed on dated …….

Signature with Seal of the Deponent (bidder)

I/ We,_____above deponent do hereby certify that the facts mentioned in above paras 1 to 4 are correct to the best of my knowledge and belief.

Verified today_____(dated) at_____(place)

Signature with Seal of the Deponent (bidder)

Note: Affidavit duly notarized in original shall reach at least one calendar day before opening of the bid.

Annexure – C
(*See clause 5 of Section 1 -NIT*)

PRE-QUALIFICATIONS CRITERIA

The bidder should have:

A. Financial

i. experience of having successfully executed:

   i. three similar works, each costing not less than the amount equal to 20% of the probable amount of contract in any one financial year during the last preceding 5 financial years; or

   ii. two similar works, each costing not less than the amount equal to 30% of the probable amount of contract in any one financial year during the last preceding 5 financial years; or

   iii. one similar work of cost not less than the amount equal to 50% of the probable amount of contract in any one financial year during the last preceding 5 financial years;

   Note:- If tender called in group of works of Building, Roads etc., then works of Building & Road are separately taken in consideration for experience as per their individual amount in the project.

ii. Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last preceding 5 financial years.

iii. Executed similar items of work in any one financial year during the last preceding 5 financial years, which should not be less than the minimum, physical requirement, if any, fixed for the work.

iv. **Bid Capacity –** Bidder shall be allotted work up to his available Bid Capacity, which shall be worked out as given in format I-2 of Annexure I.

B. Physical Requirement:-

Required Executed Physical quantity for pre qualifications in last five preceding years shall be as below:

S no	Particulars	Quantity required	Period (in any one financial year during the last preceding 5 financial years
1	Physical qualification required for **PRE-QUALIFICATIONS CRITERIA for S. no. A (iii)**	**Yes/No**	
	Reinforcement total Qty 275144.20 Kg	**137572.10 kg**	

(The Employer shall specify all physical qualifications required)

NOTE:- FOR QULIFYING QUANTITY OF ITEM, 50 % QUANTITY OF THOSE ITEMS ARE TO BE TAKEN WHOSE AMOUNT IS MORE THEN 20% OF NIT AMOUNT.

Section 2 –Annexure - c

Annexure – D

(*See clause 6 of Section 1 -NIT*)

SPECIAL ELIGIBILITY CRITERIA

The bidder should have experience of:

A. Erection of Steel Gates - ----------

B. Construction of tunnel - ----------

Note: Above criteria are indicative, subject to suitable stipulations by the departments and specific bid.

ANNEXURE - E

(*See clause 2 of Section 2 –ITB & Clause 10 of GCC*)

Specifications

1. **MP .....Department Specifications,**
2. **……..**
3. **……..**

(The soft copy of above specifications is available at departmental website

www----------)

The provisions of general / special conditions of contract, those specified elsewhere in the bid document, as well as execution drawings and notes, or other specifications issued in writing by the Employer shall form part of the technical specifications of this work.

Annexure - F

(See clause 3of section 2-ITB)

Procedure for Participation in e-Tendering

1. Registration of Bidders on e-Tendering System:

All the PWD registered bidders have to enrol their respective firms on the portal **https://www.mptenders.gov.in.** For more details may contact **support-eproc@nic.in**. Helpdesk phone numbers are available on website.

2. Digital Certificate:

The bids submitted online should be signed electronically with a Class III Digital Certificate to establish the identity of the bidder submitting the bid online. The bidders may obtain Class III Digital Certificate issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities, Government of India. A Class III Digital Certificate is issued upon receipt of mandatory identity proofs along with an application. Only upon the receipt of the required documents, a Digital Certificate can be issued. For details please visit **cca.gov.in**.

Note:

i. It may take upto 7 working days for issuance of Class III Digital Certificate; hence the bidders are advised to obtain the certificate at the earliest. Those bidders who already have valid Class III Digital Certificate need not obtain another Digital Certificate for the same.

*The bidders may obtain more information and the Application From required to be submitted for the issuance of Digital Certificate from **cca.gov.in***

ii. Bids can be submitted till bid submission end date. Bidder will require digital signature while bid submission.

`The digital certificate issued to the Authorized User of a Partnership firm / Private Limited Company / Public Limited Company and used for online biding will be considered as equivalent to a no-objection certificate / power of attorney to that user.

In case of Partnership firm, majority of the partners have to authorize a specific individual through Authority Letter signed by majority of the partners of the firm. In case of Private Limited Company, Public Limited Company, the Managing Director has to authorize a specific individual through Authority

Letter. Unless the certificate is revoked, it will be assumed to represent adequate authority of the specific individual to bid on behalf of the organization for online bids as per information Technology Act 2000. This Authorized User will be required to obtain a Digital Certificate. The Digital Signature executed through the use of Digital Certificate of this Authorized User will be binding on the firm. It shall be the responsibility of Management / Partners of the concerned firm to inform the Certifying Authority, if the Authorized User changes, and apply for a fresh Digital Certificate for the new Authorized User.

3. Set Up of Bidder's Computer System:

In order for a bidder to operate on the e-tendering System, the Computer System of the bidder is required to be set up for Operating System, Internet Connectivity, Utilities, Fonts, etc. The details are available at https://www.mpeproc.gov.in

4. Key Dates:

The bidders are strictly advised to follow the time schedule (Key Dates) of the bid on their side for tasks and responsibilities to participate in the bid, as all the stages of each bid are locked before the start time and date and after the end time and date for the relevant stage of the bid as set by the Department.P1

5. Preparation and Submission of Bids

The bidders have to prepare their bids online, encrypt their bid Data in the Bid forms and submit Bid of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice inviting e-Tenders after signing of the same by the Digital Signature of their authorized representative.

6. Purchase of Bid Document

For purchasing of the bid document bidders have to pay Service Charge online ONLY which is Rs. [as per Bid Date Sheet]. Cost of bid document is separately mentioned in the Detailed NIT. The Bid Document shall be available for purchase to concerned eligible bidders immediately after online release of the bids and upto scheduled time and date as set in the key dates.

The payment for the cost of bid document shall be made online through Debit/Credit card , Net banking or NEFT Challan through the payment gateway provided on the portal.

7 Withdrawal, Substitution and Modification Of Bids

Bidder can withdraw and modify the bid till Bid submission end date.P19F

Annexure – G

(***See clause 4 of Section 2 -ITB***)

JOINT VENTURE (J.V.)

If J.V. is allowed following conditions and requirements must be fulfilled –

1. Bids submitted by a joint venture of two or more firms as partners shall comply with the following requirements :

a. one of the partners shall be nominated as being ***Lead Partner***, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners;

b. the bid and, in case of a successful bid, the Agreement, shall be signed so as to be legally binding on all partners;

c. the partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract, including payment, shall be done exclusively with the partner in charge;

d. all partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the authorization mentioned under [c] above, as well as in the bid and in the Agreement [in case of a successful bid];

e. The joint venture agreement should indicate precisely the role of all members of JV in respect of planning, design, construction equipment, key personnel, work execution, and financing of the project. All members of JV should have active participation in execution during the currency of the contract. This should not be varied/modified subsequently without prior approval of the employer;

f. The joint venture agreement should be registered, so as to be legally valid and binding on all partners; and

g. a copy of the Joint Venture Agreement entered into by the partners shall be submitted with the bid.

2. The figures for each of the partners of a joint venture shall be added together to determine the Bidder's compliance with the minimum qualifying criteria required for the bid. All the partners collectively must meet the criteria specified in full. Failure to comply with this requirement will result in rejection of the joint venture's bid.
3. The performance security of a Joint Venture shall be in the name of the partner ***Lead Partner***/joint venture.
4. Attach the power of attorney of the partners authorizing the Bid signatory(ies) on behalf of the joint venture
5. Attach the agreement among all partners of the joint venture [and which is legally binding on all partners], which shows the requirements as indicated in the Instructions to Bidders'.
6. Furnish details of participation proposed in the joint venture as below:

DETAILS OF PARTICIPATION IN THE JOINT VENTURE

PARTICIPATION DETAILS	***FIRM 'A' (Lead Partner)***	***FIRM 'B'***	***FIRM 'C'***
Financial			
Name of the Banker(s)			
Planning			
Construction Equipment			
Key Personnel			
Execution of Work (Give details on contribution of each)			

Annexure -H

(***See clause 12 of Section 2 –ITB& clause 4 of GCC***)

ORGANIZATIONAL DETAILS

(To be Contained in Envelope - A)

S. No.	Particulars	Details
1.	Registration number issued by Centralized Registration System of Govt. of M.P. or Proof of application for registration.	(If applicable, scanned copy of proof of application for registration to be uploaded)
2.	Valid Registration of bidder in appropriate class through Centralized Registration of Govt. of MP	Registration No._____Date_____ (Scanned copy of Registration to be uploaded) Validity of Registration up to Date ……..
3.	Name of Organization/ Individual/ Proprietary Firm/ Partnership Firm	
4.	Entity of Organization Individual/ Proprietary Firm/ Partnership Firm (Registered under Partnership Act)/ Limited Company (Registered under the Companies Act–1956)/ Corporation/ Joint Venture	
4a	If Other then Individual	Registration No._____Date_____ (Scanned copy of Registration to be uploaded)
4b	PAN .No.	No …….. (Scanned copy of PAN to be uploaded)
4c	GST Registration No.	No ……..Date_____ (Scanned copy of Registration Certificate to be uploaded)
4d	EPF Registration	No…….. Date…….. (Scanned copy of Registration Certificate to be uploaded)
4e	ESI Registration	No…….. Date…….. (Scanned copy of Registration Certificate to be uploaded)
5.	Address of Communication	
6.	Telephone Number with STD Code	
7.	Fax Number with STD Code	
8.	Mobile Number	
9.	E-mail Address for all communications	
	Details of Authorized Representative	
10.	Name	
11.	Designation	
12.	Postal Address	
13.	Telephone Number with STD Code	

S. No.	Particulars	Details
14.	Fax Number with STD Code	
15.	Mobile Number	
16.	E-mail Address	

Note: *In case of partnership firm and limited company certified copy of partnership deed/ Articles of Association and Memorandum of Association along with registration certificate of the company shall have to be enclosed.*

Signature of Bidder with Seal
Date: _____

Annexure – I
(***See clause 14 of Section 2 -ITB***)

Envelope – B, Technical Proposal

Technical Proposal shall comprise the following documents:

Sno	Particulars	Details to be submitted
1	Experience – Financial & Physical	Annexure - I (Format: I-1)
2	Annual Turnover	Annexure - I(Format: I-2)
3	List of technical personnel for the key positions	Annexure - I(Format: I-3)
4	List of Key equipments/ machines for quality control labs	Annexure - I(Format: I-4)
5	List of Key equipments/ machines for construction work	Annexure - I(Format: I-5)

Note:

1. *Technical Proposal should be uploaded duly page numbered and indexed.*
2. *Technical Proposal uploaded otherwise will not be considered.*

अन्य आवश्यक दिशा निर्देशः-

Bid capacity हेतु वेल्यु के निर्धारण में ठेकेदार द्वारा चलरहे/अनुबंध किये गये समस्त कार्यो को सामिल किया जावे एवं साथ ही Existing Commitments work की जानकारी में आवश्यक रूप से नोट लगाकर उल्लेख किया जावे कि उक्त जानकारी में प्रस्तुत कार्यो के अतिरिक्त संबंधित ठेकेदार के अन्य कोई कार्य प्रगतिरत अथवा अनुबंधित नही है बिड केपेसटी के निर्धारण पत्रक पर हस्ताक्षर होना अनिवार्य है। सिविल कार्यो के साथ विधुत कार्यो हेतु सक्षम श्रेणी का लायसेन्स मांगे जाने की दशा में ठेकेदार द्वारा अन्य व्यक्ति/कर्मचारी का लायसेन्स संबंधित विघुत ठेकदेार के लेटर पेड पर टेण्डर कमाकं.....के विघुत कार्य हेतु सहमति के साथ प्रस्तुत किया जावे साथ ही निविदाकार को रू. १००.०० के शपथ पत्र पर उल्लेख करना होगा कि निविदाकार द्वारा उक्त कार्य में सम्मिलित विघुत कार्य उसी व्यक्ति से कराया जावेगा जिसका जीवित लायसेन्स उसके द्वारा निविदा के दस्तावजों के साथ प्रस्तुत किया गया है।

Section 2 –Annexure - I

Annexure - I (Format: I-1)

(*See clause 14 of Section 2 -ITB*)

FINANCIAL & PHYSICAL EXPERIENCE DETAILS

A. Financial Requirement:

The bidder should have completed either of the below:

a) Three similar works each costing not less than the amount equal to 20% of the probable amount of contract in any one financial year during the last 5 preceding financial years; or

b) two similar works each costing not less than the amount equal to 30% of the probable amount of contract in any one financial year during the last 5 preceding financial years; or

c) one similar work of cost not less than the amount equal to 50% of the probable amount of contract in any one financial year during the last 5 preceding financial years;

To be filled in by the contractor:

i. Details of successfully completed similar works shall be furnished in the following format.

ii. Certificate duly signed by the employer shall also be enclosed for each completed similar work.

TABLE-1, TABLE – 2 & TABLE -3 as below to be filled in by the contractor:

***Similar Work** : Details of Successfully Completed similar works in last preceding Five Years :-*

TABLE -1 (Similar Works to be Filled by Bidder)								
Agreement Number & Year	**Name of Work**	**Date of Work Order**	**Date of Completion**	**Amount of Contract**	***Amount of Completion***	**Employer's Name and Address**	***Encl. number***	***Total Pages***

Existing commitments – (Value of 'C' for Bid Capacity formula)

TABLE -2 (Existing Commitments)								
Agreement Number & Year	**Name of Work**	**Date of Work Order**	**Stipulated Date of Completion**	**Amount of Contract**	**Amount of balance work**	**Employer's Name and Address**	***Encl. number***	***Total Pages***

Note (For Table 1 & Table 2) :-

a) Certificate duly signed by the employer shall also be enclosed for each completed or work in hand similar work.

b) Similar works for building contracts means building works. Merely open platform (caps etc) or boundary wall shall not be treated as similar work for building work. Experience of civil engineering infrastructure work shall also be considered for prequalification purpose only after third call of tenders for building works.

c) In case of cost of work (PAC) more than Rs. 100.00 (One Hundred) Crore. The work completed shall be read as 'executed', which means payment received in the contract.

B. Physical Qualification, Prescribed, if any:

Execution of similar items of work in any one year during the last Preceding 5 Financial years should not be less than the minimum physical requirement, Prescribed if any, fixed for the work.

TABLE – 3 (Similar Items)								
SNo	**Particulars**	**Actual Quantity Executed (To be filled in by the contractor)**					**Supporting document Sr. No.**
		Year – 1	**Year – 2**	**Year – 3**	**Year – 4**	**Year –5**	
1	Physical qualification required	Yes/ No					
2							
3							
4							
5							

Note: 1. *Certificate duly signed by the employer shall be enclosed for the actual quantity executed, if stipulated as physical requirement, in any one year during the last preceding 5 years.*

General Note (For Format I-1) :

A) Maximum value of Similar works executed in any one year during the last preceding five year (10% weightage per year shall be given to bring the value of work executed at present price level)

B) Work executed with Central Govt. or any State Govt. or Semi Govt. Organization or Central/State Govt. Under Taking or Municipalities/ Municipal Corporations shall only be considered, Certificate shall be signed by an officer not below the rank of Executive Engineer or equivalent.

C) The Applicant must be in the same name and style well established civil engineering contractor with physical and financial experience and capability in doing civil engineering works and shall give evidence for the same.

D) Any clarification on experience documents submitted by the bidder may be called by the department and the bidder shall submit the same within stipulated time. However no additional information or document shall be entertained.

E) Employer signing completion certificate of similar work means an officer of rank not below EE of any government /Semi government/ government under taking/ local self government of any state government or government of India.

F) Cut of date for counting last preceding 5 years shall be date of issue of N.I.T.

Annexure - I (Format: I -2)
(***See clause 14 of Section 2 -ITB***)

ANNUAL TURN OVER

Requirement:

Average annual Turnover on the construction of Work during Preceding Five Financial Year Shall not be less than 50% of the probable amount of contract.

TABLE - 4 To be filled in by the contractor:

TABLE -4 (Construction work- ANNUAL TURN OVER)				
Preceding Financial Year	Preceding Financial Year	Payments Received for contracts of civil engineering works in progress or completed	Enclosure Number	Total Pages of Documents
1	Previous Financial Year 5	Rs		
2	Previous Financial Year 4	Rs		
3	Previous Financial Year 3	Rs		
4	Previous Financial Year 2	Rs		
5	Previous Financial Year 1	Rs		
Average	(1+2+3+4+5)/5	Rs		

Total Turnover of five years =
Average Annual Turnover =
Maximum Annual Turnover 'A' =

Note:

i. Annual turnover on construction work should be certified by the Chartered Accountant.
ii. Audited balance sheet including all related notes, and income statements for the above financial years to be enclosed.
iii. Above Table is also to be used for arriving at value of maximum annual turnover 'A"
iv. Value of 'A' to be used in bid capacity formula.
v. For immediate preceding financial year, if final audited balance sheet Certified by the chartered Accountant is not available. Then provisionally certified balance sheet shall also be considered for the purpose of annual turnover.

Bid Capacity

Applicants who meet the minimum qualifying criteria in the evaluation as stated above are to be evaluated further for bid capacity as under:

Bid Capacity = (1.5 A X B) - C

Where

A = Maximum value of civil engineering works executed in any one Financial year during the last preceding five year (Updated to the price level at the current financial year at the Compounded rate of 10% (Ten Percent) a year taking into account the completed as well as work in progress.

B = Number of years prescribed for completion of the works for which tender is invited (period up to 6 months to be taken as half year and more than 6 months and up to one year as one year.) any period beyond 12 months. The period actually mentioned in the N.I.T. shall be considered. Period of completion given in month shall be divided by 12 to arrive at value of B.

C = Amount of work in hand at present as per Table – 2 (format I-1)

Section 2 –Annexure - I (Format I-2)

Annexure - I(Format: I -3)

(See clause 14 of Section 2 –ITB & Clause 6 of GCC)

List of Technical Personnel for the Key Positions

(Required for Building Work Rs.50 Lack and above/ For Road Work Rs.100 Lack and above / for combined building and Road Work Rs. 100 Lack and above)

Probable Amount of Contract Rs. In cr.	Key Position	Minimum requirement					Available with the bidder				
		Minimum Number requirement	Qualification	Age	Similar work experience	Status	Name of Personnel	Qualification	Age	Similar work experience	Status
Up to 2 cr.	Technologist	1	Diploma civil	21	2 years	Full time					
2 cr to 10 cr.	Engineer	1	B.E. Civil	23	2 years	Full Time					
	Technologist	1	Diploma E/M	23	2 years	As & when Required					
10 cr. To 50 cr.	Engineer	1	B.E. Civil	23	2 years	Full Time					
	Technologist	1	Diploma Civil	24	5 years	Full Time					
	Technologist	1	Diploma E/M	21	2 years	As & when Required					
For each additional 50 cr.	Engineer	1	B.E. Civil	23	2 years	Full Time					
	Engineer	1	B.E. E/M	23	2 years	Full Time					
	Technologist	2	Diploma Civil	23	2 years	Full Time					
	Technologist	1	Diploma E/M	23	2 years	Full Time					

Note :- Aforesaid criteria are part of technical bid but not part of prequalification. This requirement is to be fulfilled by the contractor recovery shall be made as per GCC Clause 6 if technical personnel are not deployed as above.

Annexure I (Format: I -4)

(See clause 14 of Section 2 -ITB)

List of Own Key Equipments/ Machines for Quality Control Labs

(Required for Building Work Rs.50 Lack and above/ For Road Work Rs.100 Lack and above / for combined building and Road Work Rs. 100 Lack and above)

Minimum requirement			Available with the bidder	
S. No.	**Name of Quality control Equipment/ Machinery**	**Quantity**	**Name Equipment/Machinery**	**Quantity**
1	Balances (i) 7 kg to 10 kg capacity, Semi- Self indicating type – Accuracy 10 gm. (ii) 500 gm. Capacity, Semi -Self indicating type Accuracy 1 gm. (iii) Pan Balance – 5 kg. Capacity Accuracy 10 gm.	1 set		
2	Ovens - Electrically operated, thermostatically controlled up to 110^0 c- Sensitivity 1^0C.	1 set		
3	Sieves : as per IS 460-1962. (i) I.S. Sieves-450mm internal dia of sizes 100 mm, 80 mm 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm complete with lid and pan. (ii) IS Sieve –200 mm internal dia. (brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.	1 Set		
4	Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.	1 set		
5	Equipment for stump test, stump cone. Steel plate tamping rod steel scale scoop	1 set		
6	Dial gauges 25 mm travel 0.01 mm/ division least count -2 nos	1 set		
7	100 Tones compression testing machine electrical cum manually operated	1 set		
8	Graduated measuring cylinders 200 mt capacity 3 nos	1 set		
9	Enamel trays (for efflorescence test for bricks) I 300 mm x 250 mm x 40 mm – 2 nos, Ii circular plates of 250 mm dia – 4 nos	1 set		
10	Aggregate impact test apparatus as per IS: 2386-Part IV -1963	1 set		
11	Sand Pouring cylinder with control funnel and tube complets as per IS: 2720- Part-X X V III-1974	1 set		
12	Constant temperature both for accommodating bitumen specimen electrically operated and thermostatically contorlled	1 set		
13	Penetrometer with automatic time controller and with adjustable weight accessories and needles as per IS: 1958			
14	Moisture Meter			
15	Compaction Testing Machine			

Note :-

1- For Work Costing (PAC) above 10 cr. Additional sets shall be made available as per requirement.

2- Afore said criteria are part of technical bid but not part of prequalification above minimum requirement are to be fulfilled by the contractor Recovery as per GCC clause 17 shall be made If above minimum requirement are not fulfilled .

Annexure - I (Format: I -5)

(See clause 14 of Section 2 -ITB)

List of Own/Hired Key Construction Equipments/ Machines

Pribable amount of contract (PAC)	S.No.	Minimum requirement		Available with the bidder
		Name of Construction Equipment Machinery	Quantity	
Up to 2.00 cr.	1	Concrete Mechanical Mixer with Hopper (1 cum capacity Minimum)	1 nos	
	2	Plate Vibrator	2 nos	
	3	Diesel/ Electric pin vibrator	2 nos	
	4	Fully well equipped lab	1 nos	
	5	Curing pump of 1.5 hp capacity with set of pipe	1 nos	
	6	Steel shuttering plates/ centering pipes	100 m2	
	7	Auto lavel instrument	1 nos	
2.00 cr to 10.00 cr	1	Concrete Mechanical Mixer with Hopper	2 nos	
	2	Concrete weight batcher minimum 30 cubic meter capacity (as an when required)	1 nos	
	3	Plate Vibrator	3 nos	
	4	Diesel/ Electric pin vibrator	3 nos	
	5	Fully well equipped lab	1 nos	
	6	Curing pump of 1.5 hp capacity with set of pipe	2 nos	
	7	Mm centering plates/ centering pipes	1000 m2	
	8	Auto level instrument	1 nos	
10.00 cr to 50 cr	1	Concrete Mechanical Mixer with Hopper	3 nos	
	2	Concrete weight batcher minimum 30 cubic meter capacity	2 nos	
	3	Plate Vibrator	4 nos	
	4	Diesel/ Electric pin vibrator	4 nos	
	5	Fully well equipped lab	1 nos	
	6	Curing pump of 1.5 hp capacity with set of pipe	3nos	
	7	Steel centering plates/ centering pipes	1500 m2	
	8	Auto lavel instrument	1 nos	

1- Above minimum requirement are parts of the technical bid but not part of prequalification criteria.
2- Above minimum requirement are required to complete the work in time.
3- As per Departmental instruction bidder submitted self ownership related document of above equipment/machinery. If in case of machinery hire by bidder, machinery hire related Document agreement between bidder and owner of machinery person and Bill of machinery ownership person.

Section 2 –Annexure I (Format I-5)

Annexure – J
(*See clause 14 of Section 2 -ITB*)

FINANCIAL BID
(To Be Contained in Envelope-C)

NAME OF WORK _ Construction of……

I/We hereby bid for the execution of the above work within the time specified at the **rate (in figures) ..... (in words) ..... percent below/ above or at par** based on the Bill of Quantities and item wise rates given therein, in all respects and in accordance with the specifications, designs, drawings and instructions in writing in all respects in accordance with such conditions so far as applicable. I/We have visited the site of work and am/ are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns, nature and the extent of ground, working conditions including stacking of materials, installation of tools and plant conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of contract.

Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable, or in default thereof to forfeit and pay to the Governor of Madhya Pradesh or his successors in office the sums of money mentioned in the said conditions.

Note:

i. Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates given therein shall be quoted.

ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited.

iii. In case the percentage "above" or "below" is not given by a bidder, his bid shall be treated as non-responsive.

iv. All duties, taxes, and other levies payable by the bidder shall be included in the percentage quoted by the bidder.

Signature of Bidder

Name of Bidder

The above bid is hereby accepted by me on behalf of the MP State Agricultural Marketing Board, Bhopal dated the_____day of_____20___

_____

Signature of Officer by whom accepted

Annexure – K

(*See clause 15 of Section 2 -ITB*)

MATERIALS TO BE ISSUED BY THE DEPARTMENT

NOT APPLICABLE

Sno	Name of material	Rate (Issue rate)	Unit	Remarks
	NILL			

Annexure – L

(See clause 21 of Section 2 -ITB)

LETTER OF ACCEPTANCE (LOA)

No. _____ Dated: _____

To,

M/s._____

(Name and address of the contractor)

Subject: _____

(Name of the work as appearing in the bid for the work)

Dear Sir (s),

Your bid for the work mentioned above has been accepted on behalf of the M.P. State Agricultural Marketing Board, Bhopal at your bided percentage below/ above or at par on applicable S.O.R's. The Bill of Quantities and item wise rates given therein.

You are requested to submit within 15 (Fifteen) days from the date of issue of this letter:

2. The performance security/ performance guarantee of Rs._____(in figures) (Rupees_____in words only). The performance security shall be in the shape of term deposit receipt/ bank guarantee of any nationalized / schedule commercial bank valid up to three months after the expiry of defects liability period.
3. Sign the contract agreement by submitting Non Judicial stamp of Rs…….

Please note that the time allowed for carrying out the work as entered in the bid is_____months including/excluding rainy season, shall be reckoned from the date of signing the contract agreement.

Signing the contract agreement shall be reckoned as intimation to commencement of work and no separate letter for commencement of work is required. Therefore, after signing of the agreement, you are directed to contact the Engineer-in-charge for taking the possession of site and necessary instructions to start the work.

Yours Faithfully

Executive Engineer

M.P. State **Agricultural** Marketing Board

TECHNICAL DIVISION No. 02 Bhopal

SUPRINTENDING ENGINEER

Annexure – M

(***See clause 22 of Section 2 -ITB***)

PERFORMANCE SECURITY

To

_____[name of Employer]

_____[address of Employer]

_____

WHEREAS_____[name and address of Contractor] (Hereinafter called "the Contractor") has undertaken, in pursuance of Letter of Acceptance No._____dated_____to execute_____[name of Contract and brief description of Works] (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of_____[amount of guarantee]*_____(in words), such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of_____[amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 3 (three) months from the date of expiry of the Defect Liability Period.

Signature, Name and Seal of the guarantor _____

Name of Bank _____

Address _____

Phone No., Fax No., E-mail Address, of Signing Authority _____

Date _____

* An amount shall be inserted by the Guarantor, representing the percentage the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

SECTION 3

Conditions of Contract
Part – I General Conditions of Contract [GCC]

Table of Clauses of GCC

A. General

1. DEFINITIONS

Bill of Quantities: means the priced and completed Bill of Quantities forming part of the Bid.

Engineer-in-Chief/ Chief Engineer: means Engineer-in-Chief/ Chief Engineer of the MP State Agricultural Marketing Board, Bhopal.

Completion: means completion of the work as certified by the Engineer-in-Charge, in accordance with provisions of agreement.

Contract: means the Contract between the Employer and the Contractor to execute, complete and/or maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.

Contract Data: means the documents and other information which comprise of the Contract.

Contractor: means a person or legal entity whose bid to carry out the work has been accepted by the Employer.

Contractor's bid: means the completed bid document submitted by the Contractor to the Employer.

Contract amount: means the amount of contract worked out on the basis of accepted bid.

Completion of work: means completion of the entire contracted work. Exhaustion of quantity of any particular item mentioned in the bid document shall not imply completion of work or any component thereof.

Day: means the calendar day.

Defect: means any part of the work not completed in accordance with the specifications included in the contract.

Department: means Department of the State M.P. State Agricultural Marketing Board, Bhopal adopts this document.

Drawings: means drawings including calculations and other information provided or approved by the Engineer-in-Charge.

Employer: means the party as defined in the **Contract Data**, who employs the Contractor to carry out the work. The Employer may delegate any or all functions to a person or body nominated by him for specified functions. The word Employer / Government / Department wherever used denote the Employer.

Engineer: means the person named in the **Contract Data**.

Engineer in charge: means the person named in the **Contract Data.**

Equipment: means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work.

Government: means Government of Madhya Pradesh.

In Writing: means communicated in written form and delivered against receipt.

Material: means all supplies, including consumables, used by the Contractor for incorporation in the work.

Superintending Engineer: means Superintending Engineer, MP State Agricultural Marketing Board, Bhopal

Stipulated period of completion: means the period in which the Contractor is required to complete the work. The stipulated period is specified in the **Contract Data.**

Specification: means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.

Start Date: means the date of signing of agreement for the work.

Sub-Contractor: means a person or corporate body who has a Contract with the Contractor, duly authorised to carry out a part of the construction work under the Contract.

Temporary Work: means work designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the work.

Tender/Bid, Tenderer /Bidder: are the synonyms and carry the same meaning where ever used.

Variation: means any change in the work which is instructed or approved as variation under this contract.

Work: The expression "work" or "works" where used in these conditions shall unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the work by virtue of contract, contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional.

Executive Engineer means Executive Engineer of concerned Technical Division.

Secretary APMC : means Secretary of concerned APMC

2. INTERPRETATIONS AND DOCUMENTS

Interpretations

In the contract, except where the context requires otherwise:

a. words indicating one gender include all genders;
b. Words indicating the singular also include the plural and vice versa.
c. provisions including the word “agree”, “agreed” or “agreement” require the agreement to be recorded in writing;
d. written” or “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record;

Documents Forming Part of Contract:

1. NIT with all amendments.
2. Instructions to Bidders (ITB, Bid Data Sheet with all Annexures)
3. Conditions of Contract:
   i. Part I General Conditions of Contract and the Contract Data; with all Annexure.
   ii. Part II Special Conditions of Contract.
4. Specifications
5. Drawings
6. Bill of Quantities
7. Technical and Financial Bid
8. Agreement, and
9. Any other document(s), as specified.

3. Language and Law

The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Communications

All certificates, notice or instruction to be given to the Contractor by Employer/Engineer shall be sent to the address or contact details given by the Contractor in [Annexure H of ITB]. The address and contact details for communication with the Employer/Engineer shall be as per the details given in the Contract Data. Communication between parties that are referred to in the conditions

shall be in writing. The notice sent by facsimile (fax) or other electronic means (email) shall also be effective on confirmation of the transmission. The notice sent by registered post or speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service. In case of any change in address for communication, the same shall be immediately notified to Engineer-in-Charge.

5. Subcontracting

Subcontracting shall be permitted for contracts of value more than amount specified in the Contract Data with following conditions.

a. The Contractor may subcontract up to 25 percent of the contract price with the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractor's obligations.
b. Following shall not form part of subcontracting:
    i. Hiring of labour through a labour contractor.
    ii. The purchase of Materials to be incorporated in the works.
    iii. Hiring of plant & machinery
c. The sub-contractor will have to be registered in the **appropriate category** in the centralised registration system for contractors of the GOMP.

6. Personnel

The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure I-3 of Bid Data Sheet, if applicable. If the Contractor fails to deploy required number of technical staff, recovery as specified in the Contract Data will be made from the Contractor.

If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within three days and has no further connection with the Works in the Contract.

7. Force Majeure

The term "Force Majeure" means an exceptional event or circumstance:

(a) Which is beyond a Party's control,

(b) Which such Party could not reasonably have provided against before entering into the Contract,

(c) Which, having arisen, such Party could not reasonably have avoided or overcome, and

(d) Which is not substantially attributable to the other Party.

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

(i) War, hostilities (whether war be declared or not), invasion, act of foreign enemies,

(ii) Rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,

(iii) Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,

(iv) Munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and

(v) Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

7.2. In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.

For the period of extension granted to the Contractor due to Force Majeure the price adjustment clause shall apply but the penalty clause shall not apply. It is clarified that this sub clause shall not give eligibility for price adjustment to contracts which are otherwise not subject to the benefit of price adjustment clause.

The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed **twelve** months, the parties to the contract shall be at liberty to foreclose the contract after holding mutual discussions.

8. Contractor's Risks

All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.

All risks and consequences arising from the inaccuracies or falseness of the documents, drawing, designs, other documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that the designs/ drawings or other documents have been approved by the department.

9. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Government against all action, suits, claims, demands, costs etc. arising in connection with injuries suffered by any persons employed by the contractor or his subcontractor for the works whether under the General law or under workman's compensation Act, or any other statute in force at the time of dealing with the question of the liability of employees for the injuries suffered by employees and to have taken steps properly to ensure against any claim there under.

10. Contractor to Construct the Works

The Contractor shall construct, install and maintain the Works in accordance with the Specifications and Drawings as specified in the **Contract Data.**

In the case of any class of work for which there is no such specification as is mentioned in Contract Data, such work shall be carried out in accordance with the instructions and requirement of the Engineer-in-charge.

The contractor shall supply and take upon himself the entire responsibility of the sufficiency of the scaffolding, timbering, machinery, tools and implements, and generally of all means used for the fulfilment of this contract whether such means may or may not be approved or recommended by the Engineer.

11. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

12. Dispute Resolution System

No dispute can be raised except before the Competent Authority as defined in Contract Data in writing giving full description and grounds of dispute. It is clarified that merely recording protest while accepting measurement and/or payment shall not be taken as raising a dispute.

No dispute can be raised after 45 days of its first occurrence. Any dispute raised after expiry of 45 days of its first occurrence shall not be entertained and the Employer shall not be liable for claims arising out of such dispute.

The **Competent Authority** shall decide the matter within 45 days.

Appeal against the order of the Competent Authority can be preferred within 30 days to the **Appellate Authority** as defined in **the Contract Data**. The Appellate Authority shall decide the dispute within 45 days.

Appeal against the order of the Appellate Authority can be preferred before the Madhya Pradesh Arbitration Tribunal constituted under Madhya Pradesh *Madhyastham Adhikaran Adhiniyam*, 1983.

The Contractor shall have to continue execution of the Works with due diligence notwithstanding pendency of a dispute before any authority or forum.

B. Time Control

13. Programme

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements, order and timing for all the activities for the construction of works.

The program shall be supported with all the details regarding key personnel, equipment and machinery proposed to be deployed on the works for its execution.

The contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/equipment being placed in field laboratory and the location of field laboratory along with the Programme.

An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the **Contract Data**. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the **Contract Data** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

The Engineer's approval of the Programme shall not alter the Contractor's obligations.

14. Extension of Time

14.1. The contract is for completion of works and therefore non approval of **EOT** shall not in any way invalidate the contract. The contractor will have to complete the works.

In the event of delays attributable to the contractor, the EOT shall not be given by the Engineer-in-Charge and the liquidated Damages shall be levied from the contractor in accordance with the provisions of the contract.

In the event, the delays are not attributable to the contractor the EOT may be issued by the Engineer-in-Charge without imposition of Liquidated Damages either suo-motto or on a written request of the contractor.

It is clarified that out of the total delays in completion of works, the EOT shall be issued only for the part, which is not attributable to the contractor.

15. Compensation for delay

The time allowed for carrying out the work, as entered in the agreement, shall be strictly observed by the Contractor.

The time allowed for execution of the contract shall commence from the date of signing of the agreement. It is clarified that the need for issue of work order is dispensed with.

In the event milestones are laid down in the Contract Data for execution of the works, the contractor shall have to ensure strict adherence to the same.

Failure of the Contractor to adhere to the timelines and/or milestones shall attract such liquidated damages as is laid down in the Contract Data.

In the event of delay in execution of the Works as per the timelines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages liveable until the Contractor makes such delays good. However, the Engineer-in-charge shall accept bankable security in lieu of retaining such amount.

If the Contractor is given extension of time after liquidated damages have been paid, the Engineer-in-Charge shall correct any over payment of liquidated damages by the Contractor in the next payment certificate.

In the event the Contractor fails to make good the delay until completion of the stipulated contract period (including extension of time) the sum so retained shall be adjusted against the liquidated damages levied.

16. Contractor's quoted percentage

The Contractor's quoted percentage rate referred to in the "Bid for works" will be deducted/ added from/to the net amount of the bill after deducting the cost of material supplied by the department.

C. Quality Control

17. Tests

The Contractor shall be responsible for:

a. Carrying out the tests prescribed in specifications, and
b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.

The contractor shall have to establish field laboratory within the time specified and having such equipments as are specified in the **Contract Data**.

Failure of the Contractor to establish laboratory shall attract such penalty as is specified in the **Contract Data.**

18. Correction of Defects noticed during the Defect Liability Period

The Defect Liability Period of work in the contract shall be as per the **Contract Data**.

The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.

If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of having the Defect corrected, and the cost of correction of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.

D. Cost Control

19. Variations - Change in original Specifications, Designs, and Drawings etc.

The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions in the original specifications, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work in accordance with any instructions which may be given to him in writing signed by the Engineer-in- charge, and such alterations, omission, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified, as part of the

work, shall be carried out by the contractor on the same conditions in all respects on which he agrees to do the main work.

The time for the completion of the work shall be adjusted in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

20. Extra items

20.1 All such items which are not included in the priced BOQ shall be treated as extra items.

21. Payments for Variations and / or Extra Quantities

The rates for such additional (Extra quantity), altered or substituted work / extra items under this clause shall be worked out in accordance with the following provisions in their respective order:-

a. The contractor is bound to carry out the additional (Extra quantity), work at **the same rates** as are specified in the contract for the work.

b. If the item is not in the priced BOQ and is included in the SOR of the department, the rate shall be arrived at by applying the quoted tender percentage on the SOR rate.

c. **If the rates for the altered or substituted work are not provided in applicable SOR** - such rates will be derived from the rates for a similar class (type) of work as is provided in the contract (priced BOQ) for the work.

d. **If the rates for the altered, substituted work cannot be determined in the manner specified in the sub clause (c) above -** then the rates for such composite work item shall be worked out on the basis of the concerned Schedule of Rates minus/plus the percentage quoted by the contractor.

e. If the rates for a particular part or parts of the item is not in the Schedule of Rates and the rates for the altered, or substituted work item cannot be determined in the manner specified in sub clause (b) to (d) above, the rate for such part or parts will be determined by the Competent Authority as defined in the Contract Data on the basis of the rate analysis derived out of prevailing market rates when the work was done.

f. But under no circumstances, the contractor shall suspend the work on the plea of non-acceptability of rates on items falling under sub clause (a) to (d). In case the contractor does not accept the rate approved by the Engineer in Charge for a particular item, the contractor shall continue to carry out the item at the rates determined by the Competent Authority. The decision on

the final rates payable shall be arrived at through the dispute settlement procedure.

22. No compensation for alterations in or restriction of work to be carried out.

If at any time after the commencement of the work, the Engineer-in-charge, for any reason whatsoever, not require the whole or any part of the work as specified in the bid to be carried out; the Engineer-in-charge shall give notice in writing of the fact to the Contractor and withdraw that whole or any part of the work.

The Contractor shall have no claim to any payments or compensation whatsoever, on account of any profit or advantage which he might have derived from the execution of work in full or on account of any loss incurred for idle men and machinery due to any alteration or restriction of work for whatsoever reason.

The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work, without prejudice to his rights.

23. No Interest Payable

No interest shall be payable to the Contractor on any payment due or awarded by any authority.

24. Recovery from Contractors

Whenever any claim against the Contractor for the payment arises under the contract, the Department may be entitled to recover such sum by:

(a) Appropriating, in part or whole of the Performance Security and Additional Performance Security, if any; and/or Security Deposit and / or any sums payable under the contract to the contractor.

(b) If the amount recovered in accordance with (a) above is not sufficient, the balance sum may be recovered from any payment due to the contractor under any other contract of the department, including the securities which become due for release.

(c) The department shall, further have an additional right to effect recoveries as arrears of land revenue under the *M.P. Land Revenue Code*.

25. Tax

The rates quoted by the Contractor shall be deemed to be inclusive of the commercial tax and other levies, duties, cess, toll, taxes of Central and State Governments, local bodies and authorities.

The liability, if any, on account of quarry fees, royalties, octroi and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.

Any changes in the taxes due to change in legislation or for any other reason shall not be payable to the contractor.

26. Check Measurements

The department reserves to itself the right to prescribe a scale of check measurement of work in general or specific scale for specific works or by other special orders.

Checking of measurement by superior officer shall supersede measurements by subordinate officer(s), and the former will become the basis of the payment.

Any over/excess payments detected, as a result of such check measurement or otherwise at any stage up to the date of completion of the defect liability period specified in this contract, shall be recoverable from the Contractor, as per **clause 24**above.

27. Termination by Engineer in Charge

If the Contractor fails to carry out any obligation under the Contract, the Engineer-in-Charge may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.

The Engineer-in-Charge shall be entitled to terminate the Contract if the Contractor

a) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract;

b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;

c) without reasonable excuse fails to comply with the notice to correct a particular defect within a reasonable period of time;

d) the Contractor does not maintain a valid instrument of financial security as prescribed;

e) the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;

f) If the Contractor fails to deploy machinery and equipment or personnel or set up a field laboratory as specified in the **Contract Data**;

g) If the contractor, in the judgment of the Engineer –in-charge has engaged in corrupt or fraudulent practices in competing foror in executing the contract;

h) Any other fundamental breaches as specified in the **Contract Data**.

In any of these events or circumstances, the Engineer-in-Charge may, upon giving 14 day's notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (b) or (g) of **clause 27.2**, the Engineer in Charge may terminate the Contract immediately.

NO CLAIM TO ANY PAYMENT OR COMPENSATION FOR ALTERATION IN, OR RESTRICITION OF WORK. (Clause Adopted as per Instrican circulated by Secretary MP Government, PWD Latter No. F-53/2012/19/yo/833 Dated 11.02.2016)

If at any time after the execution of the contract documents the Engineer-in-Charge shall for any reason, whatsoever, require the whole or any part of the

work as specified in the tender to be stopped for any period or shall not require the whole or part of the work to be carried out at all or to be carried out by the other contractor, he shall give notice in writing of the fact to the contractor who shall thereupon suspend or stop the work totally or partially as the case may be.

In such case, except as provided here under, the contractor shall have no claim to any payment of compensation, whatsoever, on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not so derive in consequence of the full amount of the work not having been carried out or on account of any loss that he may be put to on account of material purchased, or for unemployment of labour recruited by him. He shall not also have any claim for compensation by reason of any alterations having been I the original specifications, drawings, designs and instructions, which may involve any curtailment of the work as originally contemplated. Where, however, material have already been purchased or agreed to be purchased the contractor hall be paid for such material at the rates determined by the Engineer-in-Charge provided they are not in excess of requirements and are of approved quality and or shall be compensated for the loss, if any, that he may be put to in respect of material agreed to be purchased by him, the amount of such compensation to be determined by the Engineer-in-charge whose decision shall be final. If the contractor suffers any loss on account of his having to pay labour charges during the period during which the stoppage of work has been ordered under this clause the contractor shall on application be entitled to such compensation on account of labour charges as the Engineer-in-Charge, whose decision shall be final, may consider reasonable provided that contractor shall not be entitled to any compensation on account of labour charges, if in the opinion of the Engineer-in-Charge, the labour could have been employed by the contractor else where for the whole or part of the period during which the stoppage of the work has been ordered as aforesaid. If the total duration of suspension of the work is more then six months than the suspension of the work will be considered as permanent stoppage of the work and the contractor can determine the contract, if he so desires.

28. Payment upon Termination

If the contract is terminated under **clause 27.3,** the Engineer shall issue a certificate for value of the work done less Advance Payments Received up to date of issue of the Certificate, less other recoveries due under in the terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the contract data.

Payment on termination under **clause 27.4** above -

If the Contract is terminated under **clause 27.4** above, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the

Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered as per **clause 24** above.

29. Performance Security

The Contractor shall have to submit performance security and additional performance security, if any, as specified in the **Bid Data Sheet** at the time of signing of the contract. The contractor shall have to ensure that such performance security and additional performance security, if any, remains valid for the period as specified in the Contract Data.

30. Security Deposit-

Security Deposit shall be deducted from each running bill at the rate as specified in the **Contract Data**. The total amount of Security Deposit so deducted shall not exceed the percentage of Contract Price specified in the **Contract Data.**

The security deposit may be replaced by equivalent amount of bank guarantee or fixed deposit receipt assigned to the Employer, with validity up to 3 (three) months beyond the completion of Defect Liability Period/ extended Defect Liability Period.

The Security Deposit shall be refunded on completion of Defect Liability Period.

31. Price Adjustment

Applicability

1. Price adjustment shall be applicable only if provided for in the **Contract Data.**
2. The price adjustment clause shall apply only for the works executed from the date of signing of the agreement until the end of the initial intended completion date or extensions granted for reasons attributed to the Employer by the Engineer.
3. The Contractor shall not be entitled to any benefit arising from the price adjustment clause for extension in the contract period for reasons attributed to the Contractor.
4. In the Force Majeure event the price escalation clause shall apply.

Procedure

1. Contract price shall be adjusted for increase or decrease in rates and price of labour, materials, fuels and lubricants in accordance with following principles and procedures and as per formula given in the **contract data.**
2. The price adjustable shall be determined during each **quarter** from the formula given in the **contract data**.
3. Following expression and meaning are assigned to the work done during each **quarter**:

R = Total value of work during the **quarter**. It would include the amount of secured advance granted, if any, during the quarter, less the amount of secured advance recovered, if any during the **quarter, less value of material issued by the department, if any, during the quarter**.

4. Weightages of various components of the work shall be as per the **Contract Data.**

To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

The index relevant to any quarter, for which such compensation is paid, shall be the arithmetical average of the indices relevant of the calendar month.

For the purpose of clarity it is pointed out that the price adjustment may be either positive or negative, i.e. if the price adjustment is in favour of the Employer, the same shall be recovered from the sums payable to the Contractor.

32. Mobilization and Construction Machinery Advance

Payment of advances shall be applicable if provided in the **Contract Data.**

If applicable, the Engineer in Charge shall make interest bearing advance payment to the contractor of the amounts stated in the **Contract Data**, against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled banks, in the name as stated in the **Contract Data**, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the contractor.

The rate of interest chargeable shall be as per **Contract Data.**

The construction machinery advance, if applicable, shall be limited to 80% of the cost of construction machinery and admissible only for new construction machinery.

The advance payment shall be recovered as stated in the **Contract Data** by deducting proportionate amounts from payment otherwise due to the Contractor. No account shall be taken of the advance payment or its recovery in assessing valuations of work done, variations, price adjustments, compensation events, or liquidated damages.

33. Secured Advance

Payment of Secured Advance shall be applicable if provided in the **Contract Data.**

If applicable, the Engineer shall make advance payment against materials intended for but not yet incorporated in the Works and against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled bank, in the name as stated in the **Contract Data**, in amounts equal to

the advance payment. The guarantee shall remain effective until the advance payment has been adjusted, but the amount of the guarantee shall be progressively reduced by the amounts adjusted by the contractor.
The amount of secured advance and conditions to be fulfilled shall be as stipulated in the **Contract Data.**
The Secured Advance paid shall be recovered as stated in the **Contract Data.**

34. Payment Certificates

The payment to the contractor will be as follows for construction work**:**

(a) The Contractor shall submit to the Engineer monthly statements of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed.

(b) The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

(c) The value of work executed shall be determined, based on the measurements approved by the Engineer/ Engineer-in-charge.

(d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

(e) The value of work executed shall also include the valuation of Variations and Compensation Events.

(f) All payments shall be adjusted for deductions for advance payment, security deposit, other recoveries in terms of contract and taxes at source as applicable under the law.

(g) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

(h) Payment of intermediate certificate shall be regarded as payments by way of advance against the final payment and not as payments for work actually done and completed.

(i) Intermediate payment shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or be considered as an admission of the due performance of the contractor any part thereof, in any respect or the occurring of any claim.

(j) The payment of final bill shall be governed by the provisions of **clause 36 of GCC**.

E. Finishing the Contract

35. Completion Certificate

A Completion Certificate in the prescribed format in **Contract Data** shall be issued by the Engineer-in-Charge after physical completion of the Work.

After final payment to the Contractor, a Final Completion Certificate in the prescribed format in the **Contract Data** shall be issued by the Engineer-in- Charge.

36. Final Account

The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 days of issue of certificate of physical completion of works. The Engineer shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 days of receiving the Contractor's account if it is correct and complete. If the account is not correct or complete, the Engineer shall issue within 45 days a schedule that states the scope of the corrections or additions that are necessary. If the Account is still unsatisfactory after it has been resubmitted, the matter shall be referred to the Competent Authority as defined in the Contract Data, who shall decide on the amount payable to the Contractor after hearing the Contractor and the Engineer in Charge.

In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 35.1 above, the Engineer shall proceed to finalise the account and issue a payment certificate within 28 days.

F. Other Conditions of Contract

37. Currencies

All payments will be made in Indian Rupees.

38. Labour

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

39. Compliance with Labour Regulations

39.1. During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given in the **Contract Data**. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made their under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/byelaws/Acts/Rules/ regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

40. Audit and Technical Examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract including all supporting vouchers, abstract etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him to have been done under the contract and found not to, have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for Government to recover the same from him in the manner prescribed in **clause 24** above and if it is found that the Contractor was paid less than what was due to him, under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the Contractor.

41. Death or Permanent Invalidity of Contractor

If the Contractor is an individual or a proprietary concern, partnership concern, dies during the currency of the contract or becomes permanently incapacitated, where the surviving partners are only minors, the contract shall be closed without levying any damages/ compensation as provided for in **clause 28.2** of the contract agreement. However, if the competent authority is satisfied about the competence of the survivors, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions under which the contract was awarded.

42. Jurisdiction

This contract has been entered into the State of Madhya Pradesh and its validity, construction, interpretation and legal effect shall be subjected to the courts at the place where this agreement is entered into. No other jurisdiction shall be applicable.

[End of GCC]

Contract Data

GCC Clause	Particulars	Data
1.14	Employer	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02, Bhopal**
1.15	Engineer	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02, Bhopal**
1.16	Engineer-in-Charge	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02, Bhopal**
1.22	Stipulated Period of Completion	……. months Including/Excluding Rainy Season (period is always excluding rainy season, unless mentioned otherwise) and as below: For **Road &Bridge** works costing: upto Rs. 5 Crores- max 12 months from Rs. 5 to 10 Crores - max 18 months from Rs. 10 to 20 Crores - max 24 months from Rs. 20 to 50 Crores - max28 months more than Rs. 50 Crores - max 36 months For **Conventional Building** works costing: upto Rs. 50 lacs- max 12 months from Rs. 50 lacs to 2 Crores - max 15 months from Rs. 2 to 5 Crores - max18 months from Rs. 5 to 10 Crores - max20 months from Rs. 10 to 20 Crores - max24 months more than Rs. 20 Crores - max 30 months For **Prefab Building** works: the time permitted to be kept is **50%** of time prescribed for conventional construction
3	Language & Law of Contract	English & Indian Contract Act 1872
4	Address & contact details of the Contractor	As per 'Annexure-H'
	Address & contact details of the Employer/ Engineer – phone, Fax, e-mail.	**Executive Engineer M.P. State Agricultural Marketing Board Tech. Division no. 02, Bhopal** PHONE NO…… E-Mail…eempsambbpldiv2@gmail.com
5	Subcontracting permitted for the Contract Value	More than Rs. **Five Crores**.

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Contract Data

GCC Clause	Particulars	Data
6	Technical Personnel to be provided by the contractor	As per 'Annexure-I' (Format I-3)
	Penalty, if required Technical Personnel not employed	**Rs Thirty Thousand** per month for each Graduate Engineer and **Rs Eighteen Thousand** per month for each Diploma Engineer
10	Specifications	As per 'Annexure - E'
	Drawings	As per 'Annexure - N'
12	Competent Authority for deciding dispute under Dispute Resolution System	Engineer-in- Chief/ Chief Engineer, M.P. State Agricultural Marketing Board, Bhopal
	Appellate Authority for deciding dispute under Dispute Resolution System	Managing Director, M.P. State Agricultural Marketing Board, Bhopal
13	Period for submission of updated construction program	(a) **Every 3 months** or **(b) at the end of every milestone, whichever is less**
	Amount to be withheld for not submitting construction program in the prescribed period	@ **1 % (one) percent** of contract amount, subject to a maximum of **Rs. 50,000/-.**
14	Competent Authority for granting Time Extension	(a) **Upto 90 days– Executive Engineer M.P. State Marketing Board Tech. Division no. 02, Bhopal** **More than 90 days –**Superintending Engineer M.P. State Agricultural Marketing Board, Bhopal
15	Milestones laid down for the contract	Yes/No
	If Yes, details of Milestones	As per 'Annexure - O' **or** as below, if not mentioned in Annexure -O: **Mile Stone 1**:- **1/8th** of the whole work before **1/4th** of the whole time allowed has elapsed, **Mile Stone 2**:- **3/8th** of the whole work before **1/2th** of the whole time allowed has elapsed **Mile Stone 3:**- **3/4th** of the whole work before **3/4th** of the whole time allowed has elapsed **Mile Stone 4**:- **complete** work within the **stipulated time**
	Liquidated damage	As per 'Annexure - P'
17	List of equipment for lab	As per 'Annexure - Q'
	Time to establish lab	**30 days** from date of signing of the Agreement
	Penalty for not establishing field Laboratory	**1%** of Contract Amount per month, subject to a maximum of **Rs. 50,000/-** per month of delay

Contract Data

GCC Clause	Particulars	Data
18	Defect Liability Period	As below: (A) For **Road** work:- (i) For New Road (Bituminous) Construction along with granular crust: - **5 years** ; (ii) For New Road (Concrete) Construction: - **5 years**; **(iii)** For Renewal with BT layer **less than 30 mm** thick: **- 3 years;** **(iv)** For Renewal with BT layer **more than 30 mm** thick : **5 years** **(B)** For **Bridge** works **- 3 years** **(C)** For **Building** works - **3 years** **(D) For Road Maintanance- 1 Year (The work of strengthening and renewal shall not be treated as road maintenance work.)** **(E) For Building Maintanance works- 1Year. (Except for water proofing works and the works in which specified guarantee period is mentioned.)** **(F) For External Electrification, Pole shifting & Central Lighting works- 2 years or the guarantee given by the manufacturing company whichever is more.** to execute, complete and maintain works in accordance with agreement and special conditions of contract (SCC) after issue of physical completion certificate as per "Annexure-U" **Note**: in accordance with clause 18.3 (GCC), the Engineer in Charge shall intimate the contractor about the cost assessed, for making good the defects, and If the contractor has not corrected defects, action for correction of defects shall be taken by the Engineer in Charge as below: (a) deploy departmental labour and material or (b) engage a contractor by issuing a work order at contract rate/SOR rate or (c) sanction supplementary work in a existing agreement to a contractor for zonal works or similar other work or (d) invite open tender or (e) combination of above The Engineer-in-charge shall assess the cost of such rectification which shall be recoverable from the contractor from his Performance Security or any amount due or that may due to him and from other available securities. If this amount is not sufficient to meet the expenses incurred on rectification, the balance amount may by recovered as Land Revenue Arrears as per MPLRC.
21	Competent Authority for determining the rate	**Engineer-in-Chief/Chief Engineer** MP State Agricultural Marketing Board, Bhopal
27	Any other condition for breach of contract	Yes as below: If the contractor fails to achieve **50% financial progress** in **any milestone** and /or fails to achieve **75% financial progress** in **two consecutive mile stones**

Contract Data

GCC Clause	Particulars	Data
28	Penalty	Penalty Shall include : (a) **Security deposit** as per clause 30 of General Conditions of Contract and the percentage to apply to the value of work not completed representing the employer's additional cost for completing the works shall be 20 percent. (b) **Liquidated Damages** imposed as per clause 15 or **Performance Security (Guarantee) including Additional Performance Security (Guarantee)**, if any, as per clause 29 of General Conditions of Contract, whichever is higher
29	Performance guarantee (Security) shall be valid up to	**Three months beyond** the completion of Defect Liability Period (Maintenance Guarantee Period)
30	Security Deposit to be deducted from each running bill	At the rate of **5%** of Gross Amount of Running Bill
	Maximum limit of deduction of Security Deposit	Up to **5%** of Final Contract Amount.
31	Clause 31.1(1)Price adjustment shall be applicable	**NOT APPLICABLE**
32	Clause 32.1 Mobilization and Construction Machinery Advance Applicable	**NO MOBILIZATION AND CONSTRUCTION MACHINERY ADVANCE PAYABLE**
	Clause 32.2If yes, Unconditional Bank Guarantee	**NOT APPLICABLE**
	Clause 32.3 If yes, Rate of interest chargeable on advances	**NOT APPLICABLE**
	Clause 32.4 If yes, Type & Amount of Advance payment that can be paid	**NOT APPLICABLE**
	Clause 32.5 If yes, Recovery of advance payment	**NOT APPLICABLE**
33	Clause 33.1 Secured	**NOT APPLICABLE**

Contract Data

GCC Clause	Particulars	Data
	Advance Applicable	
	Clause 33.2 if yes, Unconditional Bank Guarantee	NOT APPLICABLE
	Clause 33.2 if yes, Amount of Secured Advance	NOT APPLICABLE
	Clause 33.3 if yes, Conditions for secured advance	NOT APPLICABLE
	Clause 33.4 if yes, Recovery of Secured advance	NOT APPLICABLE
35	Completion Certificate – after physical completion of the Work	As per 'Annexure - U'
	Final Completion Certificate – after final payment on completion of the Work	As per 'Annexure- V'
36	Competent Authority **(Compensation for delay)**	**Superintending Engineer,** M P State Agricultural Marketing Board, Bhopal
39	Salient features of some of the major labour laws that are applicable	As per 'Annexure-W'
41	Competent **(Appellate)** Authority	**Managing Director,** M P State Agricultural Marketing Board, Bhopal

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ANNEXURE – N
(***See clause 10 of Section 3 – GCC***)

Drawings

List of drawings –

ANNEXURE – O

(***See clause 15 of Section 3 -GCC***)

Details of Milestones

SUPRINTENDING ENGINEER

ANNEXURE – P

(***See clause 15 of Section 3 -GCC***)

Compensation for Delay

If the contractor fails to achieve the milestones, and the delay in execution of work is attributable to the contractor, the Employer shall retain an amount from the sums payable and due to the contractor as per following scale -

i. Slippage up to 25% in financial target during the milestone under consideration
— 2.5% of the work remained unexecuted in the related time span.

ii. Slippage exceeding 25% but Up to 50% in financial target during the milestone under consideration
- 5% of the work remained unexecuted in the related time span..

iii. Slippage exceeding 50% but Up to 75% in financial target during the milestone under consideration
-7.5% of the work remained unexecuted in the related time span..

iv. Slippage exceeding 75% in financial target during the milestone under consideration
-10% of the work remained unexecuted in the related time span.

Note: For arriving at the dates of completion of time span related to different milestones, delays which are not attributable to the Contractor shall be considered. The slippage on any milestone is if made good in subsequent milestones or at the time of stipulated period of completion, the amount retained as above shall be refunded. In case the work is not completed within the stipulated period of completion along with all such extensions which are granted to the Contractor for either Employer's default or Force Majeure, the compensation shall be levied on the contractor at the rate of 0.05% per day of delay limited to a maximum of 10% of contract price.
The decision of **Superintending Engineer** shall be final and binding upon both the parties.

ANNEXURE – Q
(*See clause 17 of Section 3 -GCC*)

List of Equipment for Quality Control Lab

ANNEXURE - R
(See clause 31 of Section 3 -GCC)

Price Adjustment

The formulas for adjustment of price are as follow:

R = Value of work as defined in Clause 31.2(3) of General Conditions of Contract

Weight ages* of component in the work

S.No	Component	Percentage of component in the work
1	Cement - P_c	
2	Steel - P_s	
3	Bitumen - P_b	
4	POL - P_f	

* Weight ages of various components of the work shall be as determined by the competent technical sanction authority.

Adjustment for cement component

(ii) Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

V_C= 0.85 x P_C/100 x R x $(C_1-C_0)/C_0$

V_c= increase or decrease in the cost of work during the month under Consideration due to changes in rates for cement.

C_o= The all India wholesale price index for **Grey** cement on the date of opening of Bids as *published by the Ministry of Industrial Development, Government of India, New Delhi. (www.eaindustry.nic.in)*

C_1= The all India average wholesale price index for **Grey** cement for the month under consideration as *published by Ministry of Industrial Development, Government of India, New Delhi.(www.eaindustry.nic.in)*

P_c= Percentage of cement component of the work

Note : For the application of this clause, index of Grey Cement has been chosen to represent Cement group.

Adjustment of steel component

(iii) Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:

V_s= 0.85 x P_S x /100 x R x $(S_1-S_0)/S_0$

V_s= Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel.

S_0= The all India wholesale price index for steel (**Bars and Rods**) on the date of opening of Bids as published by the *Ministry of Industrial Development, Government of India, New Delhi. (www.eaindustry.nic.in)*

S_i = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as *published by Ministry of Industrial Development, New Delhi. (www.eaindustry.nic.in)*

P_s= Percentage of steel component of the work.

Note : For the application of this clause, index of Bars and Rods has been chosen to represent steel group.

Adjustment of bitumen component

(iv) Price adjustment for increase or decrease is the cost of bitumen shall be paid in accordance with the following formula:

V_b= $0.85x\ P_b / 100xRx(\ B_i - B_o) / B_o$

V_b= Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.

B_o = The official retail price of bitumen at the IOC depot at nearest center on the date of opening of Bids.

B_i = The official retail price of bitumen of IOC depot at nearest center for the 15th day of the month under consideration.

P_b = Percentage of bitumen component of the work.

Adjustment of POL (fuel and lubricant) component

(V) Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula:

$V_f = 0.85 \times P_f / 100 \times R \times (\ F_i - F_o) / F_o$

V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.

F_o = The official retail price of High Speed Diesel (HSD) at the existing consumer pumps of IOC at nearest center on the date of opening of Bids.

F_i = The official retail price of HSD at the existing consumer pumps of IOC at nearest center for the 15th day of month of the under consideration.

P_f = Percentage of fuel and lubricants component of the work.

Note : For the application of this clause, the price of High Speed Diesel has been chosen to represent fuel and lubricants group.

Annexure – S

(See clause 32 of Section 3 -GCC)

Bank Guarantee Form for Mobilization and Construction Machinery Advance

To

_____[name of Employer]

_____[address of Employer]

_____[name of Contractor]

In accordance with the provisions of the General Conditions of Contract, clause 31 ("Mobilization and Construction Machinery Advance") of the above-mentioned Contract _____[name and address of Contractor] (hereinafter called "the Contractor") shall deposit with _____[name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of_____[amount of Guarantee]*_____ _____[in words].

We, the_____[bank of financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to_____[name of Employer] on his first demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in the amount not exceeding_____[amount of guarantee]* _____[in words].

We further agree that no change or addition to or other modification of the terms of the Contractor or Works to be performed there under or of any of the Contract documents which may be made between_____[name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until_____[name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and Seal : _____

Name of Bank/Financial Institution: _____

Address : _____

Date : _____

---

* An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

Annexure – T
(*See clause 33 of Section 3 -GCC*)

Bank Guarantee Form for Secured Advance

INDENTURE FOR SECURED ADVANCES

This indenture made the_____day of_____20_BETWEEN _____(hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer of the other part.

Whereas by an agreement dated_____(hereinafter called the said agreement) the contractor has agreed.

AND WHEREAS the contractor has applied to the Employer that he may be allowed advanced on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to executive at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)

AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees_____on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advance attached to the Running Account Bill for the said works signed by the Contractor on_____and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees_____on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as a for said the Contractor doth hereby covenant and agree with the President and declare as follows:

That the said sum of Rupees_____so advanced by the Employer to

(1) the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

(2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnified the Employer against all claims to any materials in respect of which an advance has be made to him as aforesaid.

(3) That the materials detailed in the said account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.

(5) That the said materials shall not be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him on that behalf.

(6)(6) That the advances shall be repayable in full when or before the Contract receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default be re-payable by the Contractor to be the Employer together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Employer to reply and pay the same respectively to him accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees_____and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein if and whenever the covenant for payment and repayment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the Employer may at any time thereafter adopt all or any of the following courses as he may deem best:

(a) Seize and utilise the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provision in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the Employer on demand.

(b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the Employer under these presents and pay over the surplus (if any) to the Contractor.

(C) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

SUPRINTENDING ENGINEER

Annexure – U
(*See clause 35 of Section 3 -GCC*)

Physical Completion Certificate

Name of Work : Construction of ……

Agreement No. …….. Date ……..

Amount of Contract Rs ……..

Name of Agency : ……

Used MB No. ----------

Last measurement recorded

a. Page No. & MB No. _____

b. Date _____

Certified that the above mentioned work was physically completed on..... (date) and taken over on …….. (date) and that I have satisfied myself to best of my ability that the work has been done properly.

Date of issue

Executive Engineer

.....

……..

Annexure – V
(*See clause 35 of Section 3 -GCC*)

Final Completion Certificate

Name of Work: Construction of ……

Agreement no. …….. Date ……

Name of Agency : ……

Used MB No. ----------

Last measurement recorded

a. Page No. & MB No. _____

b. Date _____

Certified that the above mentioned work was physically completed on..... (date) and taken over on ..... (date).
Agreemented amount Rs. ……..
Final Amount paid to contractor Rs. ----------

Incumbency of officers for the work

I have satisfied myself to best of my ability that the work has been done properly.

Date of issue

Executive Engineer
.....
……..

Annexure – W

(*See clause 39 of Section 3 -GCC*)

Salient Features of Some Major Labour Laws Applicable

a) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.

b) **Payment of Gratuity Act 1972: -** Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days'(say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.

c) **Employees P.F. and Miscellaneous Provision Act 1952**: The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:

i. Pension or family pension on retirement or death as the case may be.
ii. Deposit linked insurance on the death in harness of the worker.
iii. Payment of P.F. accumulation on retirement/death etc.

d) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.

e) **Contract Labour (Regulation & Abolition) Act 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.

f) **Minimum Wages Act 1948:** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways is scheduled employment.

g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.

h) **Equal Remuneration Act 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.

i) **Payment of Bonus Act 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner.

The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.

j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

k) Industrial Employment (Standing Orders) Act 1946: - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and gets these certified by the designated Authority.

l) **Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.

m) **Child Labour (Prohibition & Regulation) Act 1986**: - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.

n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.

o) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996: - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to

whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

p) **Factories Act 1948**: - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

SECTION 3

Conditions of Contract

Part – II--Special Conditions of Contract [SCC]

(1) Bidders are required to offer their bids Exclusive of applicable GST. The GST shall be paid by the govt. to the contractor separately as per order No. F-58/15/17/19/yo/4295 Bhopal, dated 05 August 2017 issued by the secretary Govt. of M.P. PWD.

Attached copy of order dated 5/8/17, latter of CE (Procurement) No. 1298 Dt 9.8.17 and Mandi Board Letter No. 2253 date 30.08.2017

(2) Performance Guarantee (P.G.) period (Defect Liability Period) for building shall be three years. Defect Liability Period shall start only after completion of work. The date of completion of the work will be the date of issue of physical completion certificate as per **Annexure –U.** Performance Guarantee shall not be enforced on incidence of breakage of glass panes and theft of a building elements. Contractor shall white wash/colour wash all elements of building at the end of defect liability period at his own cost (no payment shall be made for that) with one coat of the same material (white wash/colour wash & paint excluding base work of texture plaster) which has been applied in original work. Putty work shall not be repeated in such case except where damage to putty has occurred due to poor workmanship or leakage/seepage. White wash/colour wash & painting work done at the end of defect liability period in accordance to this condition shall be recorded in measurement book of final bill of the same work and page no. of MB shall be mentioned in the letter to be issued by the Assistant/Executive Engineer at the time of release of security deposit after end of performance guarantee (PG) period (Defect Liability Period). Security Deposit shall not be refunded without compliance of this special condition.

(3) Building shall periodically be inspected jointly by the contractor and engineer-in-charge or their authorised representative twice a year out of which one inspection shall take place during rainy months of July-August-September to take note of seepage/leakage and inspection note shall be issued by the engineer-in-charge or his authorised representative describing defects noticed. Emergency nature such as leakage/seepage , breaking of waste/soil pipe, water supply, drainage pipes shall be repaired/rectified within 15 days for which compliance shall be well documented and taken in to account (speaking order) while releasing security deposit at the end of performance guarantee (PG) period (Defects Liability Period) by the Additional Project Director Joint Project Director. All other conditions as per contract data issued vide govt. of M.P. PWD letter no. 53/16/2012/19/P/526 dated 06.02.2014 for implementation of defect liability period shall be enforced along with this special condition.

(4) In case similar rates are received from two or more bidder, closed cover offer shall be invited from such bidders to finalize the bid. Only lower rates shall be accepted.

Enclosures 5

Minimum Health & safety Requirement 08.12.2015

Safety measures-

General

(i) The contractor shall comply with all the requirements of ' The building and other construction workers (regulation of employment and conditions of service) act" 1996 and its Central Rule 1998/state rules and any other statuary requirements as applicable.

(ii) The contractor shall follow OWNER/MPPWD safety rules as issued from time to time with respect to safety in construction and erection.

(iii) The contractor shall have the approved safety, health and environment (SHE) policy in respect of safety and health of building workers and it shall be circulated widely and displayed at conspicuous place in Hindi and local language understood by the majority of the workers. A copy of the safety policy should be submitted to Engineer in charge.

(iv) The contractor shall prepare the safety plan comprising of method to implement the safety policy/rules, risk assessment and ensuring safety at work areas. Safety audits, inspection and its compliance, supervision and responsibility to ensure safety at various levels. Safety training to employees, review of safety and accident analysis. Ensure health and safety procedures to prevent accidents and submit to Engineer for approval as per the safety plan as annexed at annexure-1

(v) The contractors shall ensure proper safety of all the workmen, material, plan and equipments belongs to him or to him or to the employer or to other working at the site.

(vi) All equipments used in construction and erection by the contractor shall meet BIS/ International standards and where such standards can not be applicable, the contractor shall ensure these to be absolutely safe. All equipments shall be strictly operated and maintained by the contractor in accordance in accordance with manufacturer's operation manual. The contractor should also follow guidelines/rules of the employer in this regard.

(vii) The contractor shall provide suitable latest personal protective equipment of prescribed standard to all his employees and workmen according to the need. The engineer shall have the right to examine these safety equipments to determine their Suitability, reliability, acceptability and adaptability. The contractor should also ensure availability of these before their use at worksite.

(viii) The contractor shall provide safe means of access railings, stairs and ladders, scaffolding works, platforms, toe boards etc. the scaffolding shall be erected under the control and supervision of an experienced and competent person. For erection of scaffolds, access, work platforms etc. the material shall be good and the contractor shall use standard quality of materials.

(ix) The contractor shall follow and comply with all the safety rules, standards, codes of practices of owner/MPPWD and relevant provisions of applicable laws pertaining to the safety of workmen, employees, plants and equipments as many be prescribed from time to

time without any protest or contest or reservation. In case of any unconformity between statuary requirements and the safety rules of the employer referred above, the later shall be binding on the contractor unless the statuary provisions are more stringent .As and when required he can refer/ obtain copy of OWNER/MPPWD safety documents as stated above.

(x) The contractor shall have his own arrangements with nearby hospitals for shifting and treatment of sick and injured. The medical examination of the workers employed in hazardous areas shall be conducted as per rule 223 of the building and other construction worker (regulation of employment and condition of service) central rule 1998. Their health records shall be maintained accordingly and to be submitted to Engineer when asked for. If any worker is found suffering from occupational health hazard, the worker should be shifted to suitable place of working and properly treated under intimation to engineer. The medical fitness certificate to be submitted to engineer.

(xi) First aid boxes equipped with requisite articles as specified in the rule231 of the building and other construction worker (regulation of employment and condition of service) central rule 1298 shall be provided at the construction sites for the use of workers. Training has to be provided on first aid to workmen and office bearers working at site.

(a) EMERGENCY ACTION PLAN

The contractor shall prepare and emergency action plan approved by his competent authority to handle any emergency occurred during any construction work. Regular mock drills shall be organized to practice this emergency plan. The emergency action plan should be widely circulated to all the employees. Any suitable infrastructure shall be provided to handle the emergencies.

(b) SCAFFOLDING

The contractor shall take all precautions to prevent any accidental collapse of scaffolding or fall of persons from scaffolding. The contractor should ensure that scaffolding is designed by a competent person and its erection and repair should be done under the expert supervision. The scaffolding should meet the required strength and other requirements for the purpose for which the scaffold is erected. The material used for scaffold should conform to the BIS/ International standards.

(c) OPENING

The contractor shall ensure that there is no opening in any working platform/ any floor of the building, which may cause fall of workers or material. Whenever an opening on a platform/any floor of the building is unavoidable ,the opening should be suitably fenced and necessary measures for protection against falling objects or building workers from such platform shall be taken by providing suitable safety nets, safety belts or other similar means.

FENCING OF MACHINERY

The contractor shall provide suitable fencing or guard to all dangerous and moving parts of machinery.

The contractor shall not allow any of the employees to clean, lubricate, repair, adjust or examine when the machinery is in motion which may cause injury to the person.

CARRYING OF EXCESSIVE WEIGHT BY A WORKER

The worker shall not be allowed to lift by hand or carry over his head back or shoulder weight/load more than the maximum limit set by the prescribed rules for the person.

OVERHEAD PROTECTION

The contractor shall ensure that any area exposed to risk of falling materials, articles or objects is roped off or cordoned off or otherwise suitably guarded from inadvertent entry of any person.

Wherever there is a possibility of falling of any material, equipment or construction workers while working at heights, a suitable and adequate safety net should be provided. The safety net should be in accordance with BIS standards.

WORKING AT HEIGHTS

All working platforms, ways and other places of construction work shall be free from accumulation of debris or any other material causing obstructions and tripping.

Wherever workers are exposed to the hazard of falling into water, the contractor shall provide adequate equipment for saving the employees from drowning and rescuing from such hazard. The contractor shall provide boat or launch equipped with sufficient no. of life buoys, life jackets etc. and manned with trained personnel at the site of such work.

Every opening at elevation from ground level through which a building worker, vehicle, material, equipment etc. may fall at a construction work shall be covered and/or guarded suitably by the contractor to prevent such falls.

Wherever the workers are exposed to the hazards of falling from height, the contractor shall provide full harness safety belts fitted with fall arresting systems to all the employees working at higher elevations and life line of 8mm diameter wire rope with turn buckles for anchoring the safety belts while working or moving at higher elevations. Safety nets shall also be provided for saving them from fall from heights and such equipment should be in accordance with BIS standards.

Wherever there is a possibility of falling of any material, equipment of construction workers while working at heights a suitable and adequate safety net should be provided. The safety net should be in accordance with BIS standards.

The contractor shall provide standard prefabricated ladders on the columns where the workers are required to use them as an access for higher elevations till permanent staircase is provided. The workers shall be provided with safety belts fitted with fall arresting systems (fall arrestors) for climbing/getting down through ladders to prevent fall from height.

Further any such decision of the Engineer shall not, in any way absolve the contractor of his responsibilities. In case, use of such a container or entry thereof into the site area is forbidden by OWNER/MPPWD the contractor shall use alternative methods with the approval of the OWNER/MPPWD to extension of work schedule.

Where it is necessary to provide and/ or store petroleum products or petroleum mixtures and explosives, The contractor shall responsible for carrying out such provisions and/or storage in accordance with the rules and regulations laid down in petroleum act 1934, explosives act 1948 and petroleum and carbide of calcium manual published by the chief inspector of explosives of India. All such storage shall have prior approval of the Engineer. In case any approvals are necessary from the chief inspector (Explosives) or any other statuary authorities the contractor shall be responsible for obtaining the same.

The contractor shall provide suitable personnel protective equipments to the workers who are handling the hazardous and corrosive substances including alkalis and acids. As a precautionary measure the contractor should keep the bottles filled with distilled water in cupboard/boxes near work place for emergency eye wash by worker exposed to such hazardous chemicals.

EYE PROTECTION

The contractor shall provide suitable personal protective equipment to his workmen depending upon the nature of hazards and ensure their usage by the workers engaged in operation like welding, cutting, chipping, grinding or similar operations which may cause injuries to his eyes.

ELECTRICAL HAZARDS

The contractor should ensure that all electrical installations at the construction work comply with the requirements of latest electricity acts/ rules.

The contractor shall take all adequate measures to prevent any worker from coming into physical contact with any electrical equipment or apparatus or machines or live electrical circuits which may cause electrical hazards during the construction works. The contractor shall provide sufficient ELCBs/ RCCBs for all the portable equipments, electrical switchboards, distribution panels etc. to prevent electrical shocks.

The contractor should ensure use of single/ double insulated hand tools or low voltage 110 volts hand tools.

The contractor should also ensure that all temporary electrical installations at the construction works are provided with earth leakage circuit breakers.

EXCAVATION

The contractor shall take all necessary measures during excavation to prevent the hazards of falling or sliding of material or article from any bank or side of such excavation which is more than one and half meter above his footing by proving adequate piling, shoring, bracing etc. against such bank or sides.

Adequate and suitable warning signs shall be put up at conspicuous places at the excavation work to prevent any persons or vehicles falling into the excavation trench. No workers should be allowed to work where he may be stuck or endangered by excavation machinery or collapse of excavations or trenches.

VEHICULAR TRAFFIC

The contractor should employ vehicle drivers who hold a valid driving license under the motor vehicle act 1988.

EXCESSIVE NOISE, VIBRATION

The contractor shall take adequate measures to protect the workers against the harmful effect of excessive noise or vibration. The noise should not exceed the limits prescribed under the concerned rules. Noise pollution (regulation and control) rules 2000.

ELECTRICAL INSTALLATIONS

The contractor shall not interfere or disturb electric fuses, wiring or other electrical equipment belonging to the employer or other contractors under any circumstances, whatsoever unless expressly permitted in writing by the engineer to handle such fuses wiring or electrical equipments.

1) Before the contractor connects any electrical appliances to any plug or socket belonging to the other contractor or the OWNER/MPPWD he shall
   - (a) Satisfy the engineer that the appliance is in good working condition.
   - (b) Inform the engineer of the maximum current rating, voltage and phases of the appliances.
   - (c) Obtain permission of the engineer detailing the sockets to which the appliances may be connected.
2) The engineer will not grant permission to connect until he is satisfied that
   - (a) The appliance is in good condition and is fitted with the suitable plug having earth connection with the body.
   - (b) Wherever armored/ metallic sheathed multi core cable is used, the same should be connected to earth.
3) No repair work shall be carried out on nay live equipment. The engineer must declare the equipment safe and a permit to work shall be issued by the OWNER/MPPWD/ contractor as the case may be to carry out any repair/ maintenance work. While working on electric lines/ equipments whether live or dead, suitable type and sufficient quantity of tools will have to be provided b the contractor to electricians/ workmen/ officers.
4) The contractor shall employ necessary number of qualified full time electricians/ electrical supervisors to maintain his temporary electrical installation.

The installations shall be provided with suitable ELCBs and RCCBs wherever required.

SAFETY ORGANIZATION

1) The contractor employing more than 250 workmen whether temporary, casual probationary, regular or permanent shall employ at least one full time safety officer exclusively to supervise safety aspects of the equipments and workmen, who will coordinate with the OWNER/MPPWD safety officer. Further requirements of safety officers, if any shall be guided by rule 209 of the building and other construction worker (regulations of employment and conditions of service) central rule 1998. In case the work is being carried out through sub-contractor the employees/workmen of the sub-contractor shall also be considered as the contractor's employee/ workmen for the above purpose.

In case of contractor employing less than 250 workmen he should designate one of his engineer/supervisor or the contractor himself (if he is directly supervising the work) as safety officer in addition to his existing responsibilities. The engineer/supervisor should get at least 2 days safety training from any reputed organization or from OWNER/MPPWD before resuming the work. If already trained in past the declaration along the training certificate to be furnished to OWNER / MPPWD safety officer.

a. The name and address of such safety officer of the contractor will be promptly informed in writing to the engineer with a copy to the project safety officer before he starts work or immediately after any change of the incumbent is made during currency of the contract.

REPORTING OF ACCIDENT AND INVESTIGATION

In case any accident occurs during the construction/erection or other associated activities undertaken by the contractor thereby causing any near miss, minor or major fatal injury to his employees due to any reason whatsoever. It shall be the responsibility of the contractor to promptly inform to the engineer OWNER/MPPWD safety officer with a cop to OWNER/MPPWD head of project in the prescribed form and also to all the authorities envisaged under the applicable laws.

RIGHT TO STOP WORK

1) The engineer shall have the right at his sole discretion to stop the work. If in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/ or property/or equipments. In such cases the contractor shall be informed in writing about the nature of hazards and possible injury /accident and he shall comply to remove shortcomings promptly. The contractor after stopping the specific work can, if felt necessary appeal against the order of stoppage of work to the engineer within 3 days of such stoppage of work ad decision of the engineer in this respect shall be conclusive and binding on the contractor.

2) The contractor shall not be entitled for any damages/compensation for stoppage of work. (Sub-clause 7 17.00 (i)) due to safety reasons and the period of such stoppage of work shall not be taken as an extension of time for completion of the facilities and will not be the ground for waiver of levy of liquidated damages.

FIRE PROTECTION

The contractor shall provide sufficient fire extinguishers at place(s) of work. The fire extinguisher shall be properly maintained as per relevant BIS standards. The employees shall be trained to operate the fire extinguishers/ equipments.

PENALTIES

(i)If the contractor fails to provide the safe working environment as per the safety rules of OWNER/MPPWD or continues the work even after being instructed to stop the work by the engineer as provided in clause 7 17.00 (i) above the contractor should be penalized @ of Rs. 25000/- per day or part thereof till the instructions are compiled with and so certified by the engineer. However, in case of accident the provisions contained in sub-clause 7.19.00(ii) below shall also apply in addition to the penalties mentioned in this sub-clause.

(ii)If the contractor does not take all safety precautions and/or fails to comply with the safety rules as prescribed by the employer or under the applicable law for the safety of the plant and equipment and for the safety of personnel and the contractor does not prevent hazardous conditions which cause injury to his own employees or employees of other contractors or OWNER/MPPWD's employees or any other person who are at the site or adjacent thereto, the contractor shall be responsible for payment of penalty to OWNER/MPPWD as per the following schedule

a	Fatal injury of accident Causing death	penalty @ 10% of contract value or Rs. 5,00,000/- per person whichever is less.
b	Major injuries or accidents Causing 25% or more permanent Disablement to workmen Or employees	penalty @ 2.5% of contract value or Rs. 1,00,000/- per person whichever is less.

Permanent disablement shall have the same meaning as indicated in the workmen's compensation act 1923. The penalty mentioned above shall be in addition to the compensation payable to the workmen/employees under the relevant provisions of the workmen's compensation act 1923. The penalty mentioned above shall be in addition to the compensation payable to the workmen/employees under the relevant provisions of the workmen's compensation act 1923 and rules framed there under or any other applicable laws as applicable from time to time.

(iii) If any contractor worker found working without using the safety equipment like safety helmet, safety shoes, safety belts etc. or without anchoring the safety belts while working at height, the engineer /safety officer of OWNER/MPPWD shall have the right to penalize the contractor for Rs. 200/- per person per day as such worker shall be allowed to work on that day. Engineer /safety officer of OWNER/MPPWD will also issue a notice in this regard to the contractor.

(iv) If two or more fatal accidents occur at same OWNER/MPPWD site under the control of contractor during the period of contract and he has

1 not completed with keeping adequate PPEs in stock

2 defaulted in providing PPEs to his workmen

3 not followed statuary requirements /OWNER/MPPWD safety rules

4 been issued warning notices by OWNER/MPPWD head of the project on non observance of safety norms

5 not provided safety training to all his workmen

The contractor can be debarred from getting tender documents in OWNER/MPPWD for two years from the date of last accident.

The safety performance will also be one of the overriding criteria for evaluation of overall performance of the contractor by OWNER/MPPWD. The contractor shall submit the accident data including fatal/non-fatal accidents for the last three years where he has undertaken the construction activities project-wise along with the bid documents. This will also be considered for evaluation of tender documents, if the information give by the contractor found to be incorrect, his contract will be liable to be terminated.

AWARD

If the contractors performance on safety front is found satisfactory i.e without any fatal/ reportable accident in the year of consideration, he may be considered for suitable award "ACCIDENT FREE SAFETY MERITORIOUS AWARD" as per Scheme of the employer.

Some of the relevant safety codes are given here under

IS 3696 safety code for scaffolding and ladders (part 1&2)
IS 3764 excavation work-code of Safety
IS 4081 safety code for blasting and related drilling operations
IS 4130 Demolition of building – code of safety
IS 5121 safety code for piling and other deep foundations
IS 5916 safety code for construction involving use of hot bituminous materials
IS 7205 safety code for erection of structural steel work
IS 7293 safety code for working with construction machinery
IS 7969 safety code for handling and storage of building materials
Indian explosives act 1940 as updated.

SAFETY PLAN

1. Safety policy of the contractor to be enclosed.
2. When the safety policy was last reviewed.
3. Details of implementation procedure/methods to implement safety policy/safety rules.
4. Review of accident analysis method. Methods to ensure safety and health.
5. Unit executive responsible to ensure safety at various levels in work area.
6. List of employees trained in safety employed before execution of the job. Give the details of training.
7. Safety training targets schedules, methods adopted to provide safety training to all the employees.
8. Details of checklist for different jobs/ work and responsible person to ensure compliance (copy of checklist to be enclosed)
9. Regular safety inspection methods and periodicity and list of members to be enclosed.
10. Risk assessment safety audit by professional agencies periodicity.
11. Provision of treatment of injured persons at work site.
12. Review of overall safety by top management and periodicity.
13. System for implementation of statuary legislations.
14. Issue of PPEs to employee's periodicity/stock on hand etc.

मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

: आदेश :

भोपाल, दिनांक 05, अगस्त 2017

क्रमांक एफ 58/15/17/19/यो:माल एवं सेवा कर (जी.एस.टी.) दिनांक 01 जुलाई 2017 से लागू कर दिया गया है। सभी बजट कान्ट्रेक्ट पर अब जी.एस.टी. देय होगा। सामान्य प्रशासन विभाग के आदेश क्रमांक एफ 19-51/2017/1/4/ दिनांक 24.07.2017 द्वारा गठित समिति की बैठक दिनांक 28.07.2017 में की गई अनुशंसा के बिंदु क्रमांक-(2) के परिप्रेक्ष्य में लोक निर्माण विभाग द्वारा निर्णय लिया जाता है कि, भविष्य राज्य मद से वित्त पोषित कार्यों हेतु में जो भी निविदाएं आमंत्रित की जाएं, उनमें वित्तीय प्रस्ताव जी.एस.टी. राशि को छोड़कर (exclusive of GST) बुलवाए जाए एवं देयक भुगतान के समय जी.एस.टी. की जो दर देयक पर लागू हो उसके अनुसार टैक्स का भुगतान शासन द्वारा पृथक से ठेकेदार को किया जाए। जी.एस.टी. से पृथक रूप से भुगतान करने हेतु संबंधित निविदाकार/सेवा प्रदाता का जी.एस.टी. में पंजीयन एवं नम्बर(GSTIN) होना अनिवार्य है। जी.एस.टी. को छोड़कर शेष समस्त कर, एक्साइज, लेवी, फी, टोल इत्यादि के भुगतान का दायित्व निविदाकार का होगा, तथा यह माना जाएगा कि निविदाकार द्वारा प्रस्तुत वित्तीय प्रस्ताव (Financial offer) में उपरोक्त राशि का भुगतान सम्मिलित है।

यह आदेश तत्काल प्रभावशील होगा।

मध्यप्रदेश के राज्यपाल के नाम से
तथा आदेशानुसार

(चन्द्र प्रकाश अग्रवाल)
सचिव
मध्यप्रदेश शासन
लोक निर्माण विभाग

पृ.क्रमांक/क्रमांक एफ 58/15/17/19/यो - 4295 भोपाल, दिनांक 05, अगस्त 2017

प्रतिलिपि :-

1. प्रबंध संचालक, मध्यप्रदेश सड़क विकास निगम, भोपाल।
2. प्रमुख अभियंता, लोक निर्माण विभाग,म.प्र.,भोपाल।
3. परियोजना संचालक,(पी.आई.यू.), लोक निर्माण विभाग, भोपाल।
4. समस्त मुख्य अभियंता, लोक निर्माण विभाग ..... परिक्षेत्र, ... मध्यप्रदेश।
5. समस्त अतिरिक्त परियोजना संचालक,(पी.आई.यू.), लोक निर्माण विभाग .... परिक्षेत्र, ... मध्यप्रदेश।
6. समस्त अधीक्षण यंत्री, लोक निर्माण विभाग ..... मण्डल ..... परिक्षेत्र, ... मध्यप्रदेश।
7. समस्त कार्यपालन यंत्री, लोक निर्माण विभाग ..... संभाग ..... परिक्षेत्र, ... मध्यप्रदेश।
8. निज सचिव, माननीय मंत्री, म.प्र.शासन, लोक निर्माण विभाग।

Prakash 5/8/2017
सचिव
मध्यप्रदेश शासन
लोक निर्माण विभाग

SECTION 4

BILL OF QUANTITIES (BOQ)

General Description of work- Construction of .....

.....

Probable Amount of Contract: Rs. 8.84 Crore
(Rs. In Figure) – Rs. 8.84 Crore

(Rs. In Words) – Eight Crore Eighty Four Lakh

S. No.	Particulars of Item of Work	Quantity	Unit	Rate	Amount (in figure)	Amount (in words)	Remarks
I	II	III	IV	V	VI	VII	VIII
1.							
2.							
3.		As per attached sheet					
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
Total Amount (Rs. In Figure)							

Total Amount (Rs. In Words)---

Executive Engineer

.....

.....

SECTION 5

AGREEMENT FORM

AGREEMENT

This agreement, made on the_____day of _____ between_____(name and address of Employer) (hereinafter called " the Employer) and_____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute the Construction of Construction of ……..(here in after called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a cost of Rs. ……. (in words ……
……
)

NOW THIS AGREEMENT WITNESSED as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be ready and construed as part of this Agreement viz.
    i. Letter of Acceptance
    ii. Contractor's Bid
    iii. Condition of Contract: General and Special
    iv. Contract Data
    v. Bid Data
    vi. Drawings
    vii. Bill of Quantities and
    viii. Any other documents listed in the Contract Data as forming part of the Contract.

In witnessed whereof the parties there to have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____ was hereunto affixed in the presence of:

Signed, Sealed and Delivered by the said _____ _____ in the presence of:

Binding Signature of Employer

Binding Signature of Contractor

ELECTRICAL BOQ OF MANDI TRAINING CENTER				
S.N.	**SOR NO.**	**DESCRIPTION OF ITEM'S**	**UNIT**	**Total QTY**
		INTERNAL ELECTRICAL WORK		
		POINT WIRING		
1	**4.1**	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5 Sq.mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid PVC conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :-		
		Light point/ Fan point		
	(a)	Short Point	Each	230
	(b)	Medium Point	Each	215
	(c)	Long Point	Each	195
	4.2	**3 pin 6 amp socket outlet on separate Board**		0
	(a)	Short Point	Each	110
	(b)	Medium Point	Each	226
	(c)	Long Point	Each	54
	4.3	**Call Bell / Buzzer Points**		0
	(a)	Short Point	Each	8
	(b)	Medium Point	Each	10
	(c)	Long Point	Each	25
2	**4.5**	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 amp socket outlet point with 1.5 Sq.mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid PVC conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	87
3	**4.6**	Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid PVC conduit (HMS) ISI marked suitable size including painting etc. as required as per specification.		0
	4.6.1	a) 2x2.5 Sq.mm.	RM	665
	4.6.2	b) 4x2.5 Sq.mm.	RM	480
	4.6.3	c) 6x2.5 Sq.mm.	RM	390
	4.6.4	d) 8x2.5 Sq.mm.	RM	260
4	**9.1**	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid P.V.C Conduit (HMS) ISI Marked of suitable size etc. with 16 Amp. F.T. Switch & Socket / S.S.Combined 6/16 Amp. of ISI Marked and 4 Sq.mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for		
		On Separate Board		0

	(a)	Short Point	Each	0
	(b)	Medium Point	Each	0
	(c)	Long Point	Each	0
	(d)	Extra Long -I	Each	27
	(e)	Extra Long -II	Each	16
	(f)	Extra Long -III	Each	10
5	**9.2**	**Same board switch socket 6/16 Amp**	Each	45
		CONDUIT WORK		0
6	**16**	Supplying and fixing PVC conduit ISI marked alongwith the accessories in concealed system including painting etc. as required		0
	16.1	PVC Conduit 20mm (HMS)	RM	100
	16.2	PVC Conduit 25mm (HMS)	RM	430
	16.3	PVC Conduit 32mm (HMS)	RM	210
7	**13**	Supplying and fixing rigid steel conduit ISI marked along with the accessories in concealed system including cutting the wall and plastering & repainting the wall with matching colour to bring in its original condition as required		0
	13.2	H.G. Conduit 25 mm, wall thickness-1.6mm	Mtr.	0
		MODULAR BOXES , POWER PLUGS, SUBMAIN		0
8	**18.2**	Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:-		0
	18.2.1	1 Or 2 Module	Each	50
	18.2.3	4 Module	Each	210
	18.2.4	6 Module	Each	250
	18.2.5	8/9 Module	Each	99
	18.2.6	12 Module	Each	13
	18.2.7	16 Module	Each	0
9	**19.1**	Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification.		
		1x1.5 Sq.mm. cable		0
	19.1.1	1x1.5 Sq.mm. cable	PMtr	850
	19.1.2	2x1.5 Sq.mm. cable	PMtr	0
	19.1.3	3x1.5 Sq.mm. cable	PMtr	0
	19.2	**1x2.5 Sq.mm. cable**		0
	19.2.1	1x2.5 Sq.mm. cable	PMtr	340
	19.2.2	2x2.5 Sq.mm. cable	PMtr	0
	19.2.3	3x2.5 Sq.mm. cable	PMtr	0
	19.2.4	4x2.5 Sq.mm. cable	PMtr	0
	19.3	**1x4 Sq.mm. cable**		0
	19.3.1	(a) 1 X 4.00 sq mm	PMtr	360
	19.4	**1x6Sq.mm. cable**		0
	19.4.1	(a) 1 X 6.00 sq mm	PMtr	190
	19.4.3	(c) 3 X 6.00 sq mm	PMtr	0
	19.5	**10Sq.mm. cable**		0
	19.5.1	(a) 1 X 10.00 sq mm	PMtr	130
	19.6	**16Sq.mm. cable**		0

	19.6.1	(a) 1 X 16.00 sq mm	PMtr	0
10	**23**	Wiring for sub-mains with PVC insulated cable FR with copper multi strand conductor ISI marked in recessed / concealed rigid PVC conduit (HMS) ISI marked of suitable size(Conduit included) including 2mm thick accessories, connection etc ,as required as per specification		
	23.2	**3 WIRE SUB-MAIN**		
	23.2.3	6.0 sq mm cable in 25 mm conduit	RM	30
	23.4	**4 WIRE SUB-MAIN**		0
	23.4.2	4.0 sq mm cable in 25 mm conduit	RM	340
	23.4.3	6 sq mm cable in 25 mm conduit	RM	200
	23.4.4	10 sq mm cable in 32 mm conduit	RM	150
	23.4.5	16 sq mm cable in 32 mm conduit	RM	0
		TOTAL OF POINT WIRING & CONDUITS		
		DISTRIBUTION BOARD, MCB,RCBO,ETC.		
	25.6	Supplying of ISI Marked On-Load Change over switches panel mouniting type confirming to IS : 13947 (part I & III) with front operated 4 pole, 415 V with two earthing terminals if required.		
	25.6.18	630 Amps. .(With enclosure)	Each	1
11	**27.1**	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS – 8828		
	27.1.2	MCCB with Breaking Capacity 25 KA at 415 V		
	27.1.2.1	Current Rating -25 to100 Amps & 80% -100% adjustable	Each	18
	27.1.2.2	Current Rating -125 Amps & 80% -100% adjustable	Each	8
	27.1.2.3	Current Rating -160 Amps & 80% -100% adjustable	Each	7
	27.1.2.4	Current Rating -200 Amps & 80% -100% adjustable	Each	2
12	27.2	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) Micro-Processor Release (current setting for overload & short circuit) suitable for 3 phase & Neutral, 3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828		
	27.2.2	MCCB with Breaking Capacity 36 KA at 415 V		
	27.2.2.3	250 Amps 3 Pole & Micro-Processor Release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. adjustable	Each	1
	27.2.2.4	400 Amps 3 Pole & Micro-Processor Release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. adjustable	Each	1
	27.2.2.5	630 Amps 3 Pole & Micro-Processor Release, over load 40% -100% x In. & short circuit 1.5 - 8 x Ir. Adjustable	Each	1
13	27.4	Supplying of ISI Marked and approved make of Air Circuit Breaker (ACB) with Microprocessor release with LCD screen showing kW, kVA, PF, maximum demand with breaking capacity of 50 kA , 4 pole , 415 Volts conforming to IEC : 60947-2 / IS :13947-II		
	27.4.9	*1000 Amp,manual,drawout*	Each	1

14	27.5	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures :-		
	27.5.1	**SINGLE POLE (SP)**		
	27.5.1.1	0.5 Amp to 5 Amp Rating	Each	66
	27.5.1.2	6 Amp to 32 Amp Rating	Each	50
	27.5.3	**DOUBLE POLE (DP)**		0
	27.5.3.2	6 Amp to 32 Amp rating	Each	22
	27.5.4	**TRIPLE POLE (TP)**		0
	27.5.4.2	6 Amp to 32 Amp Rating	Each	21
	27.5.4.3	For 40 Amps. Rating only.	Each	9
	27.5.4.4	50 Amp to 63 Amp Rating	Each	1
	27.5.6	**FOUR POLE (FP)**		0
	27.5.6.2	6 Amp to 32 Amp rating	Each	5
	27.5.6.3	for 40 Amp rating only	Each	5
	27.5.6.5	50 Amp to 63 Amp rating	Each	1
15	27.15	Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard confirming to IEC:61009-2-1 & IS:12640-2:2001,240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification.		
	27.15.1	DP(4 module)		
	27.15.1.1	2 pole 6 to 25 Amps, 30 mA sensitivity	Each	5
	27.15.1.2	2 pole 32 Amps, 30 mA sensitivity	Each	0
17	27.7	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-		
	27.7.2	4 way single door	Each	6
	27.7.3	4 way Double Door IP 43 protection	Each	0
	27.7.4	6 way Double Door IP 43 protection	Each	0
	27.7.5	8 way Double Door IP 43 protection	Each	0
18	27.8	Supplying of approved make TPN MCB DB metal double door with provision for FP MCB/ Isolator/ RCCB/RCBO as incomer and SP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar and two earth terminals etc. complete as per IS : 13032 (exclusive of MCB & isolator)		
	27.8.2	4 way (8+12)	Each	10
	27.8.3	6 way (8+18)	Each	0
20	27.10	Supplying of approved make, powder coated Metal Double Door Vertical TPN MCB DB IP 43 protection with provision for MCCB up to 160A TP/ FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB / MCBs) inclusive of bus bar & connections etc		
	27.10.1	4 way without MCCB	Each	5
		Fixing of MCB/MCCB/ Isolator		0

21	28.4	Fixing of MCB/IMCCB/solator in sheet steel enclosure as required as per acceped practice,including mounting on busbar and cable connection etc. complete (labour only)		
	28.4.1	MCB/Isolator SP/DP	Each	131
	28.4.2	MCB/MCCB Isolator TP/TPN/FP	Each	38
22	28.7	Labour charges for fixing sheet steel enclosures, MCB DB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete:-		
	28.7.1	27.7.1 to 27.7.7 ; 27.8.1 to 27.8.3 & 27.9.1	Each	16
	28.7.2	27.8.4 & 27.8.5 ; 27.9.2 to 27.9.3 ; 27.10.1 to 27.10.3 & 27.11.1 to 27.11.3	Each	5
23	29.17	Supplying, Fixing and Testing of mixed die-electric ultra heavy duty APP capacitor 440 Volt, 3 Ph., peak inrush current upto 500 x In, over current upto 3 x In(normal current), operating losses total not more than 0.35 W / KVAr, operating life not less than 300000 hrs, switching 20000 operation / year, as per IS:13340-1993, IS:13341-1992, IS:13585-1994, of approved make as required as per specification		
	29.17.1	5 to 25 KVAr bank	P KVR	55.5
		L.T.PANEL		0
24	29.33	Supplying, fixing,testing & commissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint & provided with required gasket for dust/ vermin proof with degree of protection IP42 suitable for 415V 3 phase ,50 Hz ,4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) with frame work of angle iron/ channel/ bolted type construction duly compartmentalised for incomer,bus section , outgoings ,cable alleys & CT,PT Ampere Meter ,Volt Meter , selector switches,Frequency Meter ,phase indicating lamps , energy Meter complete including cost of busbar supports,detachable cable gland plates,2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs ,panel mounted Changeover switch/SFUs, etc. as required but excluding cost of busbar strips,Ampere Meter, Volt Meter, Selector switch as per approved design & specification	Kg.	320
25	29.34	Supplying and fixing of LT Panel accessaries of approved make in existing LT Panel including connections etc.as required as per spececification		
	29.34.1	Digital Ampere Meter with CTs with selector switch	per set	9
	29.34.2	Digital Volt Meter with selector switch & HRC fuse	per set	9
	29.34.3	Frequency Meter	Each	9
	29.34.5	Aluminium bus bar strips with PVC sleeves	Kg	230
	29.34.4	Copper Bus bar strips with PVC sleeves	Kg	45
	29.34.6	LED lamp indicator	each	27
		TOTAL OF D.B,MCB,MCCB,RCCBO AND PANEL		
		LIGHTING FIXTURES AND FANS		
26	29.3	Supplying and fixing as per specification Call bell / buzzer of approved make with necessary materials complete.		

	29.3.1	Buzzer	Each	19
	29.3.2	Ding Dong bell	Each	19
	29.3.4	Remote/cordless bell	Each	19
27	29.4	Supplying and fixing as per specification Modular Call bell indicator 230 Volt A.C. including reset and buzzer of approved make with necessary materials complete.		
	29.4.1	Bell Indicator with Reset(1 Module) 250V	Each	47
	29.4.2	Buzzer Modular (2 Module)	Each	5
28	29.23	Supplying,Fixing and Testing of Compact Flourescent Lamp (CFL) with inbuilt electronic ballast ISI marked BC / ES cap of approved make as required as per specification		
	29.23.2	8 Watt	Each	0
	29.23.4	15 Watt	Each	55
	29.23.7	23 Watt	Each	0
29	29.31	Suppling and fixing of approved make step type Modular electronic, Fan regulator including connection etc. as required on existing board		0
	29.31.2	100 Watt 2 Module	Each	95
30	30.1	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/1979 with up to date ammendments		0
	30.1.1	Ceiling Fan (5 star & ISI)-1200 mm Sweep	Each	32
	30.1.2	Ceiling Fan Ornamental (5 star)-1200 mm Sweep	Each	24
	30.1.3	Ceiling Fan (ISI)-1400 mm Sweep	Each	39
31	30.5	Supplying and fixing of Deluxe fresh air fan with louvers (ventilating fan) with self closing louvers of decorative PVC blades mounting square frame of approved make complete with all necessary material as required		0
	30.5.3	250mm RPM1300/1400	Each	11
	30.5.4	300mm RPM1300/1400	Each	11
32	30.6	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished of approved as required.		0
	30.6.1	300mm sweep 900 RPM	Each	5
	30.6.3	450mm sweep 900 RPM	Each	0
		LED LIGHTING (INTERNAL)		0
33	31.3	Supplying, fixing & testing of approved make T- 5 lamp channel luminary with epoxy white powder coated CRCA sheet steel housing box type channel with reflector cover including electronic ballast (HF), PF > 0.95, THD <30% complete duly wired (with tube rod) as per specification & fixing as below:		
	31.3.1	**I) Fixing on wall/Ceiling on PVC plate Anchor fasteners and other necessary materials including connections etc. and as required.**	Each	232

34	31.27	Supplying and fixing recessed mounting LED down lighter, LED of 1 to 3 W each assembled on single MCPCB, having color temp 4000 to 6500K & having 25000 to 50000 burning hrs life with minimum @ L 80, system lumen output should be minimum with efficacy>80Im/W. LED driver PF 0.90. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 LM79/ 1S16106 from NABL approved lab. Manufacturer manadatory. i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer.		0
	31.27.2	**12 W, 180/200mm**	Each	18
	31.27.3	**15 W, 180/200mm**	Each	15
35	32.5	Providing and fixing circular/hexagonal cast iron or MS sheet box for ceiling fan clamp of internal dia. 140 mm , 73mm height,top lid of 1.5 mm thick MS sheet with its top surface hacked for proper bonding,top lid shall be scrwed into the cast iron/MS sheet box by means of 3.3 mm dia. round headed screws, one lock at the corners,clamp shall be made of 12 mm dia. MS bar bent to shape as per standard drawing.	Each	95
36	31.24	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 W each assembled on single MCPCB, having color temp 4000K to 6500K & having 25000 to 50000 burning hrs life with minimum @ L 80, system lumen output should be minimum with efficacy>80ImlW. LED driver, PF >0.90. The colour rendering index of light should be rnore than 70. Housing made of CRCA with glare free diffused polycorbonate cover. Submission LM 80-08 From LED Source Manufacturer & LM79-08/IS16106 from NABL approved lab. Manufacturer manadatory. i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certficate from manufacturer.		0
	31.24.1	**Led luminiare 1' X 1', 24W , 4-6.5k**	Each	10
	31.24.2	**Led luminiare 2' X 2', 36 W 4-6.5 K**	Each	10
37	31.30	Supplying and fixing flood light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy>90 lm/W. luminiare having color temp 4000K To 6500K & 25000 To 50000 burning hrs life with minimum @ L 80, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF >0.90 & surge protection 3KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i/c connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer.		0
	31.30.5	**120W,**	Each	1
	31.30.6	**150W,**	Each	0
		EXTERNAL LIGHTING		

	31.14	Supplying, fixing & testing of approved make of integral type bollard cyclindrical shape housing cast aluminium dome shape top cover fixed with cylindrical shape poly carbonate cover having base plate with holes for direct mounting complete with all accessories and control gear box (without lamp) including preparatoion of foundation including fixing with connection and all required material as required.		
	31.14.3	**LED 9 Watt Mashroom shape Height > 600mm**	Each	8
	31.28	Supplying and fixing integral post top lantern LED fitting comprises of copper dust finish cast aluminium spigot and spun aluminium canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting, open construction driver and accesories are wired upto terminal block. LED of 1 to 3 W each assembled on single MCPCB, having color temp 4000K to 6500K & having 25000 to 50000 burning hrs life with minimum @ L 80, system lumen output should be minimum with efficacy>80lm/W. LED driver PF 0.90. The colour rendering index of LED light should be more than 70. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory. i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer.40 watt LED.		
	31.28.1	**40 W LED**	Each	4
	31.29	Supplying and fixing street light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy>90 lm/W. luminiare having color temp 6500K & 50000 burning hrs life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF 0.95 & surge protection 3KV. Housing made of pressure die cast aluminium with heat resistant flat glass / Lens type, IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i/c 50mm.dia G.I. Pipe bracket upto 2 mtr. long in required angle/shape, connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer.		0
	31.29.2	**40W / 48W**	Each	3
	31.29.3	**60W**	Each	3
	42.93	Providing and erecting hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade)		0

	42.93	Providing and erecting hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade)		0
	42.93.1	3 mtrs. Height 130 X 70mm A/F, 200x200x12mm base plate, 4 nos X 16 x 450mm bolt	each	4
	42.93.4	6 mtrs. Height 130 X 70mm A/F, 220x220x12mm base plate, 4 nos. X 20 x 600mm bolt	each	6
	42.94	Providing and fixing of sword canopy type single arm GI bracket upto 2 Mtr. Long for 70mm A/F top octagonal pole	each	6
	42.101	Designing & casting with M-20 reinforcement cement concrete foundation suitable for Octagonal poles considering the safe soil bearing capacity at site as 10 T/sqm at 2 mtrs. Depth including excavation, foundation nut bolts in an approved manner.	P.Cu.m	5
		WATER PUMP		
	39.2	Supplying & Installation of required capacity of Three phase, 50 Hz,415V, **Deep well submersible pump** Steel body, as per IS of approved Make, suitable for 6 " tube well with Control Panel Starter suitable for Submersible pump with dry run protection, single phase preventer, connections, including clamps, bore cap etc. as required as per specifications but excluding Pipe and connection cable.		
	39.2.1.1	3 H.P. with up to 6 stages, Head Mt 55-7, Discharge LPM 60-510	each	1
	39.10	Supplying & Installation of approved Make required capacity **3 phase, 50 Hz, 415V, Open Well Submersible pump,** with Control Panel Starter with Dry Run Protection, single phase preventer, connections, etc. as required as per specifications but excluding Pipe and connection cable.		0
	39.10.1.2	5.0 H.P. Head Mt 15-24, Discharge LPM 930-420	each	1
	39.3	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make.		0
	39.3.1.3	6.0 Sq.mm multi strand	P. mtr	100
	39.4	Supplying and laying of approved Make HDPE pipe as per IS : 4984 and IS : 14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, Tees,etc. as required (PE-63 & working Pressure 10 kgf/sq cm)		0
	39.4.1.2	32 mm Outer Dia.	P.mtr	100
	39.5	Supplying and laying of approved Make Nylon rope 12 mm thick complete with binding for support of pump and motor.	P.mtr	100
	39.6	Supplying and laying of approved Make Stainless Steel wire rope 6 mm thick complete with binding for support of pump and motor.	P.mtr	100
		EARTHING, LOOP EARTHING,LIGHTNING PROTECTION		0

38	37.1	Earthing with G.I. Earth pipe 4.5 Metre long and 40 mm dia with masonary enclosure in cement mortor, cover plate having locking arrangment on the top etc.(but without charcoal or coke and salt) complete as required.	Each	1
39	37.2	Add extra for using salt and charcoal / coke for G.I. Plate or copper plate earth electrode as required including excavation and refilling.		0
	37.2.1	Exacavation 2.5 cum by manual labour	Each	1
	37.2.2	Excavation by making hole with Auger	Each	1
40	37.3	***Earthing with G.I. Earth plate*** 600mm X 600mm X 6mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20mm dia 2.7 Metre long etc. (but without charcoal or coke and salt) complete as required.	Each	6
41	37.4	***Earthing with Copper Earth plate*** 600mm X 600mm X 3mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangment on the top and G.I. watering pipe 20mm dia 2.7 Metre long etc. (but without charcoal or coke and salt) complete as required.	Each	6
42	37.5.1	Add Extra for using salt and charcoal / coke for G.I. Plate or Copper plate earth electrode as required including excavation & refilling.	Each	12
43	37.6	Supplying and laying 8 SWG (4 mm) copper wire at 0.5 Metre below ground level as conductor earth electrode including soldering etc. as required.	Mtr.	80
44	37.8	Supplying and laying 25mm X 5mm G.I. strip at 0.5 Metre below ground level as strip earth electrode including soldering etc. as required.	Mtr.	140
45	37.10	Providing & fixing 25mm X 5mm copper strip in 40mm dia G.I.pipe (B class) from earth electrode as required.	Mtr.	50
47	37.13	Providing and laying earth connections from earth electrode with 4.00 mm dia copper wire in 15mm dia G.I. Pipe (B class) from earth electrode as required.	Mtr.	40
	37.14	Providing & fixing 25mm X 5mm copper strip on surface or recessed for connection etc. as required.	Metre	40
48	37.18	Supplying and laying 50mm X 6mm G.I. strip at 0.5 metre below ground level / surface as strip earth electrode including jointing etc. as required.	Mtr.	85
49	37.19	Providing and fixing of lightning conductor finial made of 25mm dia 300mm long copper tube having single prong at top with 85 mm dia 3 mm thick copper base plate including holes complete as required.	Each	2
50	37.20	Providing and fixing of lightning conductor finial made of 25mm dia 300mm long G.I. tube having single prong at top with 85 mm dia 6 mm thick G.I. base plate including holes complete as required.	Each	2
51	37.21	Fixing of lightning conductor finial made of 25mm dia 300mm long copper tube / G.I. tube having single prong at top with base plate etc.complete as required.	Each	4

52	37.22	Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightening conductor as required (for Horizontal runs)	Each	52
53	37.23	Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightening conductor as required (for Horizental runs)	Mtr.	25
54	37.24	Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightening conductor as required (for Vertical runs)	Mtr.	25
55	37.29	Providing and fixing " Testing Joint" made by 20mm X 3mm thick copper strip 125mm long with 4 Nos of tinned Brass bolts, Nut, check nuts and spring washers etc. complete as required .	Mtr.	4
56	37.39	Supplying and drawing PVC insulated copper cable (Earth Continuity Conductor) of Green colour FR with copper multi strand conductor ISI marked in existing conduit along with other wires as required as per specification :		0
	37.39.2	6 sq mm Sq mm	RM	50
		TOTAL OF EARTHING & LOOP EARTHING		
		TELEPHONE, LAN, TV CABLE		
57		Supplying and drawing following pair of 0.5 mm size solid annealed copper conductor PVC Insulated telephone cable as per DOT Specifications in existing surface / concealed steel / PVC Conduit / Cassing-N-Capping as required.		
	38.2.2	(ii) 2 Pair	RM	330
58	38.4	Supply, Installation testing and commissioning of telephone Tag block Krone connector with enclosure and lock complete as mentioned below :-		0
	38.4.1	10 Pair	Each	69
	38.4.4	50 Pair	Each	0
59	38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1 Module)	Each	100
60	38.9	Supply, Installation testing and commissioning RJ - 45 Computor Jack cat 6 with shutter Modular (2Module) Legrand	Each	75
61	38.11	Suppling and drawing 4 pair shielded, 0.5 mm PVC.Insulated copper conductor un-armoured Cat-6 E computor cable FRLS in existing surface / concealed ,steel / PVC. Conduit/Casing-N-Capping as required.	RM	100
62	38.12.1	Supply, Installation testing and commissioning of patch cord as mentioned below :- CAT 6 RJ 45 Patch Cord F/UTP 1 Mtr.	Each	34
63	38.13	Supply, Installation testing and commissioning of 19" Modular Patch - 1 U Patch Panel 24, RJ 45 Cat-6 connector	Each	5
64	38.15	Supply, Installation testing and commissioning of wall mounting rack, for computer switches complete as mentioned below :-		
65	38.15.1	6U cabinet 371.30X600X500, wall mounting with power supply and Fan etc.(for one patch panel minium 3u is required.)	Each	5
		TOTAL OF LAN CABLE / COMPUTER / TV CABLES		
		LT CABLING WORK/ GLAND/ LUGS/Cable Laying		

66	41.1	Supply of XLPE Insulated power cable (confirming IS-7098 Part-I) 1100 Volt grade, 1 core /2 core /3½ core/4 core ISI MARKED with Alu. Stranded /solid conductor		
	41.1.10	**4 core Armoured**		
	41.1.10.1	6 sq mm	Metre	100
	41.1.10.2	10 Sq.mm	Metre	40
	41.1.10.3	16 Sq.mm	Metre	100
	41.1.8	**3.5 CORE Armoured**	Metre	
	41.1.8.1	25 Sq.mm	Metre	110
	41.1.8.2	35 Sq.mm	Metre	60
	41.1.8.3	50 Sq.mm	Metre	80
	41.1.8.4	70 Sq.mm	Metre	80
	41.1.8.5	95 Sq.mm.	Metre	
	41.1.8.6	120 Sq.mm.	Metre	300
	41.1.8.7	150 Sq.mm	Metre	240
	41.1.8.8	185 Sq.mm.	Metre	0
	41.1.8.9	240 Sq.mm	Metre	0
67	41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connection etc. as per specification complete.		
	41.5.1	Gland Size 22mm suitable for cable 2/3, 3½, 2/4 x 6 Sq.mm or 2x 16 Sq.mm	Each	42
	41.5.2	Gland Size 22mm suitable for cable 2/3, 3½, 2/4 x 10 Sq.mm or 2x 16 Sq.mm	Each	12
	41.5.3	Gland size 28mm for 3/4 x 16 Sq.mm	Each	47
	41.5.4	Gland size 32mm for 2/3, 3½, 4 x 25 Sq.mm OR 2/3, 3½ x 35 Sq.mm OR 2/3 x 50 Sq.mm.	Each	36
	41.5.5	Gland size 38mm for3½ x 70 Sq.mm OR 3 x 95 Sq.mm.	Each	18
	41.5.6	Gland Size 45mm 3/3½ x 120 Sq.mm, 3½ x 95 Sq.mm 3 x 150 Sq.mm.	Each	48
	41.5.7	Gland size 50mm for3½ x 150 Sq.mm OR 3 x185 Sq.mm.	Each	42
	41.5.9	Gland Size 70mm 3 x 240 Sq.mm, 3½ x 300 Sq.mm	Each	30
68	41.6	Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete		0
	41.6.1	2.5 to 6.00 Sq.mm	Each	59
	41.6.2	10.00 Sq.mm	Each	60
	41.6.3	16.00 Sq.mm	Each	60
	41.6.4	25.00 Sq.mm	Each	45
	41.6.5	35.00 Sq.mm	Each	45
	41.6.6	50.00 Sq.mm	Each	46
	41.6.7	70.00 Sq.mm	Each	45
	41.6.8	95.00 Sq.mm	Each	0
	41.6.9	120.00 Sq.mm	Each	30
69	41.7	Supplying and fixing cramping type Alum. lugs as per I.S.S. Specification suitable for following size of cable with Alu. /Copper solid/stranded conductor evently cramped with high/pressure tool and connected to switch gear/Bus/M.C.C.B./ M.C.B. etc. as required complete.		

	41.7.1	6mm to 16 Sq.mm	Each	220
	41.7.2	25 Sq.mm	Each	100
	41.7.3	35 Sq.mm	Each	60
	41.7.4	50 sq mm	Each	60
	41.7.5	70 Sq.mm	Each	62
	41.7.7	120 Sq.mm.	Each	160
	47.7.8	150 sq mm	Each	120
		G.I.PIPE FOR UNDER GROUND CABLES		0
70	41.12	Suppying & installing G.I. Pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismentalling & other finshed masonary Item complete.		
	41.12.1	For 'B' Class pipe ISI Marked (IS-1161-68)		
	41.12.1.8	80.00mm	Metre	20
	41.12.1.9	100.00mm	Metre	20
		CABLE LAYING		
71	41.15	Laying of one number armoured / unarmoured power cable 1.1kV grade of size not exceeding 25 Sq.mm ***direct in ground including*** excavation in all soil / murrum / soft rock, sand cushioining, protective covering and refilling the pit etc. as required.	Mtr	185
72	41.16	Laying of one number armoured / unarmoured power cable 1.1.kV grade of size exceeding 25Sq.mm but not exceeding 120 Sq.mm ***direct in ground including*** excavation in all soil / murrum / soft rock, sand cushioing, protective covering and refilling the pit etc. as required.	Mtr	200
73	41.17	Laying of one number armoured / unarmoured cable 1.1.kV grade of size exceeding 120 Sq mm but not exceeding 400 Sq.mm ***direct in ground including*** excavation in all soil / murrum / soft rock, and sand cushioning protective covering and refilling the pit etc. as required.	Mtr	140
74	41.21	Laying of one number armoured / unarmoured power cable 1:1 kV grade of size not exceeding 25 Sq.mm in the existing RCC Hume/Stone ware/G.I. pipe / surface in existing trench as required.	Mtr	140
75	41.22	Laying of one number armoured / unarmoured power cable 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 400 Sq mm in the existing RCC Hume /Stone ware/G.I. Pipe/ surface in existing trench as required.	Mtr	200
76	41.47	Laying of one number armoured / unarmoured cable 1.1kV grade of size not exceeding 25 Sq.mm on ***wall/truss*** with approved type of iron clamps etc. as required.	Mtr	120

77	41.48	Laying of one number armoured / unarmoured cable 1.1kV grade of size exceeding 25 Sq.mm but not exceeding 120 Sq.mm on ***wall/truss*** with approved type of iron clamps etc. as required.	Mtr	120
		G.I. PERFORATED CABLE TRAY		0
78	41.54	Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends.. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron / hanging rod, for ceiling suspensions, clamps, anchor fastner, nuts, bolts, washers, not mor than 1.5 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-		
	41.54.1	100 x 50 mm x 1.6mm thick	Metre	150
	41.54.2	150 x 50 mm x 1.6mm thick	Metre	120
	41.54.3	300 x 50 mm x 1.6mm thick	Metre	100
		H.T.CABLES/LAYING/TERMINATIONS		
79	41.10	Providing & Making cable end termination with HEAT SHRINKABLE jointing kit complete with all accessories including lugs suitable for 33 kV/11 kV 3 core XLPE alum. conductor cable as required as per specification and as per accepted standard including connection testing complete.		0
	41.10.1	Heat shrinkable joint,kit 11 kV XLPE, 3 Core		0
	41.10.1.1	Heat shr.jointg. kit 11 kV XLPE cable O.D. termination		0
		b. 3 x 50-95 sq.mm.	Each	1
	41.10.1.2	Heat shr.jointg. kit 11 kV XLPE cable I.D. termination		
		b. 3 x 50-95 sq.mm.	Each	1
		OVER HEAD LINES & SUBSTATION		0
80	42.2	Supply of support for overhead line RS joist /'H' Beam of I.S. standard including drilling of required hole etc. complete as required.		0
	42.2.2	R.S. Joist 175 x 85 - 19.3 kg/per metre	Mtr.	66
	42.2.6	H - Beam 152 x 152mm, Std weight 37.1 Kg / Mtr	Mtr.	260
81	42.5	Supplying and drawing All Aluminum Alloy conductor (AAAC) of approved make confirming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)		0
	42.5.4	AAAC 0.1 sq inch (100 Sq.mm Al. EQ.) - (Dog)	Km.	1
82	42.9	Supplying and drawing guard wire/earth wire/bearer wire 18.62 mm2 (4.87mm. Dia / 6swg) G.I. including stringing, binding at existing insulators or brackets, jointing, jumpering, connecting & cradle etc. as required and clearing of obstacles (if any)	Km.	1
83	42.14	Erection of RS Joist pole / 'H' Beam / steel tubular / steel rail pole of length exceeding 10 metres but not exceeding 13 metres in cement concrete M-10 (1 cement:3 core sand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffing including exacavation and back refilling etc. as required.	Each	21

84	42.21	Supplying and erection of stay set complete (Galvanized) with 16mm dia x1.8 metre long stay anchor plate of size 200mm x 200mm x 6.0mm, thimble, stay clamps, turn buckle 19mmx600mm, 7/3.15mm dia G.I. stay wire etc. in cement concrete M-10 (1 Cement : 3 Coarse and : 6 granded stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required.	Each	3
85	42.36	Supply, fabrication and erection of Angle/Chanel/Flat iron fitting for over head line & sub-station etc such as 'D' bracket, cross arms, top clamp, 'V' cross arms, Back/Support clamps or other similar work etc. including nut bolts of required size, making holes, fabrication, welding, cutting, etc. and painting with one coat of red oxide paint & two coat of aluminium paint as required as per specification.	Kg.	800
86	42.37	Labour charges for erection of Angle/Chanel/Flat iron fitting for over head line & sub-station etc such as 'D' bracket, cross arms, top clamp, 'V' cross arms, Back/Support clamps or other similar work etc. including nut bolts of required size, as required as per specification.	Kg.	800
87	42.46	Supplying and erection of 11kV (5 KN) Polymer pin insulator complete with long steel head G.I. pin, nut, washer etc. as required.	Each	70
88	42.47	Supplying and erection of 11kV (45 KN) Polymer disc insulator for 11kV overhead lines with galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	Each	30
89	42.54	Supplying and erection of single piece non linear resistor polymer type lighting arrestor (Set of 3 Nos) for 3 wire, 11kV overhead lines/sub-station with rated voltage of 9kV (rms) with a nominal discharge current rating of 10 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Set	1
90	42.56	Supplying installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On-Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification.(Set of 3 nos.)		0
	42.56.1	11 kV, 400A.	set	1
91	42.57	Supplying, installing ,testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4 KV DP Structure set of 3 with fuse with barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required.		0
	42.57.1	11kV	set	1
92	42.58	Supplying & replacement of D.O. fuse barrel with brass parts for 33 or 11 KV i/c required fuse element according to load as per specification on existing D.P. structure as required.		0
	42.58.1	11kV	Each	3

93	42.60	Supplying & replacement of D.O. fuse element according to load for 33 or 11 KV as per specification on existing D.P. structure as required.		0
	42.60.1	11kV	Each	3
94	42.61	Supply & fixing anti climbing device with 2 ply G.I. barbed wire 1 Kg. per pole complete as per specification.	Each	24
95	42.62	Supply, laying and fixing of G.I. earth coil of 4mm dia G.I. wire having 120 turns of nearly 50mm dia. and 3 mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	26
96	42.63	Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure / poles.	Each	1
97	42.64	Supplying, installing, testing and commissioning of 11/0.4 K.V. 3 Phase 50 Cycle oil immersed, naturally cooled, out door type transformer connected delta on H.T. side and star on L.T. side, hand operated off load Tap changer switch above 100 kVA, oil conservator with drain valve, plug 63 KVA and above, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50ºC on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required as per IS specification. Marked ISI & 3 Star rating		
	42.64.2	Copper wound		
	42.64.2.2	315 kVA	Each	1
98	42.68	Supplying and fixing Limit switch with accessories & arrangement on existing HT/LT structure / poles AB switch handle for inter locking between distribution panel main incoming LT switch gear/ system as required to complete the job.	each	1
99	42.69	Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire for for D.P. structure electric sub-station including single post of angle iron size 50x50x5mm, 2.5 mt long should be provided upto 2.00 mt. apart or as required.The panel frame with required angle iron/ flat iron members /cross members including mesh welded in frame panel, shall be erected between the post. The angle iron post shall be erected in cement concrete 1:2:4 (20 mm graded metal) foundation, including excavation of pit and refilling the same . The fencing shall be provided with one entrance gate including locking arrangement as required as per specification. The height of fencing shall be 2 mt. above ground level. Fencing shall be painted with required shade.	Sq.Mt	5
100	42.71	Supplying & fixing of Fire Extinguisher/Refills as per IS specification		0
	42.71.1	ABC type duly refilled 6 Kg & ready to use	Each	1

	42.71.2	ABC type duly refilled 4 Kg &ready to use	Each	1
101	42.71.5	4 buckets set with sand, self supported M.S.stand i/c shed duly painted with red colour as per IS.	each	1
102	42.72	Supply of Rubber mat 2 x 1.0Mtr, 1100V Tested	each	1
	42.73	Supply of Hand Gloves 11KV Tested	pair	2
103	42.75	Supply of Fiber Discharge Rod I/C Connection copper Lead Tested	Each	2
104	42.76	Supply of Fiber D.O Operating Rod for 11 / 33KV Tested	Each	1
105	42.77	Supply of First Aid Box complete with medicine & bandage as per specification.	Each	1
106	42.78	Supply of shock instruction chart duly framed with glass, as reqd.	Each	1
107	42.82	Designing and construction of Pedestal (Plinth) for transformer of desired size including excavation in hard rock/soft rock, base concrete 1:4:8, 20mm thick and pedestal of RCC 1:2:4 including required tar steel reinforcement for required height as per IE Rules from base concrete including shuttering and finishing with 10mm thick plaster in cement mortor 1:3 curing & white washing etc. complete as per specifications.	Cu. Mt.	0
108	42.83	Collection and spreading of metal dust, Murom and 40mm graded hard metal in sub-station yard or as required as mentioned below -		0
	42.83.1	(i) Metal Dust	Cu. Mt.	8
	42.83.2	(ii) Murom	Cu. Mt.	8
	42.83.3	(iii) Metal 40 mm	Cu. Mt.	5
		TOTAL OF OVERHEAD LINE MATERIAL		
		43 B - DIESEL GENERATING SET		
109	43.B.14	Supply Installation, testing & Commissioning of Diesel Generating Set Three phase, water cooled with AMF control panel. 150/160KVA 415V.	EACH	1
		FIRE ALARM SYSTEM		
110	19	Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid PVC Casing-N- Capping / conduit in surface or concealed as per specification.		
	19.1	1.5 Sq mm cable		
	19.1.2	2 X 1.5 sq mm	Mtr	

111	43.C.B.1	Fire Panel : Providing, Fixing, testing & commissioning Microprocessor based Main Fire Alarm Panel and indicating panel solid state modular card type pulsar, timer for dual stage alarm facility with indicators, standby battery ,Complies to IS 2189:1999.2 x 16 character backlit LCD display .Lamp test features. Complete with integral power supply and battery charger for SMF battery. NO/NC contacts for both fire and fault. Switches to enable on board operation. LCD and LED Indication for open, short circuit, Isolate, Fire in each zone. Reset, Lamp Test, Silence, Isolate, Short, Open, Fire Continuous buzzer for fault and intermittent buzzer for fire battery charger box, operating voltage 220 Volt Mains A.C. Input / 24V D.C. Output etc. complete in all respect.		0
	43.C.B.1.1.3	8 Zone Fire Panel	Each	5
112	43.C.B.1.2	Smoke Detector (Ionization Type) : Providing & Fixing of Ionization type Smoke Detectors as per IS: 11360-1985 of dual chamber, 12/24 volt DC, ionization source - less than one micro curie maximum Americium 241, twin visual alarm indicator (LED's) "Blink" in stand by and ."steady" in alarm complete in all respects.	Each	20
113	43.C.B.1.3	Smoke Detector (Optical Type) : Providing & Fixing of Optical type Smoke Detector as per IS" 11.360 - 1985 of photo-optic sensing chamber, 12/24 volt DC, ionization source - less than one micro curie maximum Americium 241, twin visual alarm indicator (LED's) "Blink" in stand by and "steady" in alarm complete in all respects.	Each	15
114	43.C.B.1.4	Heat Detector Providing & Fixing of Heat Detector based on Heat Rate-of- Rise/fixed temperature with working voltage 9- 33V DC twin visual alarm indicator (LED's) "Blink" in stand by and "steady" in alarm complete in all respects.	Each	25
115	43.C.B. 1.5	Beam Detector: Providing & Fixing of Beam detector including mounting base along with Interface module to direct connect to the loop , having a coverage area with a distance of min. 10 m and max. 100 m with extra width of up to 14 m ,Operating temperature range: -20 C to +55 C, Response sensitivity of 40%	Each	0
	43.C.B.1.6	R.I. Providing & Fixing of Response Indicator	Each	0
116	43.C.B.1.7	Manual call Point Providing & Fixing of Manual calls Point flush or Surface Mounting.. Front protection glass cover. Unbreakable glass ABS plastic body.	Each	24
117	43.C.B.1.8	Internal Hooter Providing & Fixing of Internal Hooter With Working AC Voltage 220V A.C. / 24V D.C. Current Consumption, Sound output 120 DB, Material M.S .Sheet. .	Each	24
118	43.C.B.1.1	Industrial Hooter Providing & Fixing of Industrial Hooter Speaker Horn Type ABS Body With Working AC Voltage 220V A.C. / 24v D.0 .Current Consumption, Sound output 120 DB, Material M.S. Sheet.	Each	4
				0
		LIFT(SOR)		0

119	44.1	Supply, installation, testing, commissioning, Putting into operation and final testing of automatic lift complete in the shaft well and pit constructed already as per CPWD specification including automatic rescue device (ARD), All standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) on turn key basis, Conforming to NBC / Statutory norms and fulfilling following requirements. (Make: Standard as per MPPWD Make List) .		0
	a)	**Passenger capacity**		0
		(iv) 10 Passenger (680Kg.)	Each	2
	b)	Add extra for higher speed		0
		(i) For higher speed 1.5Meter/Sec (For 4 - 10 Passengers)	Each	2
	c)	Add extra for every additional floor beyond initial G+1 floors (additional stops beyond two stops) provide all necessary additional parts/ equipments as per manufacturer's requirement.		
		(i) Cost for each additional floor : up to 9 stops(For 4 - 10 Passengers)	Each	8
	e)	Add extra for group operation		
	f)	Add extra for hall lantern and arrival gong system.		
		(i) Extra cost for per floor per lift	Each	10
	g)	**Add extra cost for moon rock finish S.S. (Stainless steel) panel.**	Each	2

Annexure Z Non SOR Items List

		Description of Item	Unit	Qty	Rate	Amount
	NON SOR	Add Extra for Plaster work Adding Glass Fiber R/F in Dry Mix Mortar @ 1 to 1.5 kg / 50 Kg of Cement .	Kg	150.0	85.00	12750.00
	NON SOR	Proving and Fixing FiberGlass Mesh in the required width with the paste of Cement Slurry on vertical and horizontal junctions of RCC and brick wall including scaffolding and all lead and lift etc. complete before plastering upt 10 meter height. Grid size: 5 mm x5 mm Yarn Tex: Warp-66, Weft-33 Density: Warp-10, Weft-10 Treated Woven Mass: 45 G/M2 Woven Structure: LENO Resin Content: 18 % Tensile Strength: Warp >600, Weft >420.	Sqm	12933.6	48.00	620812.80
	NON SOR	Surface Preparation and application of crystalline waterproof coating Supply & Application of waterproofing for Basement with Aquafin IC, a single component, crystalline, breathable and crack healing, Cementitious coating system by Surface coating method. Waterproofing consists of Surface preparation, strengthening and grouting with cement grout admixing Grout ADD after packing the joints, barring the inserted nozzles. After effectively arresting of cross leakages, apply Aquafin IC, a single component crystalline, breathable, crack healing water proof coating @ 2 Kgs/m2 in two coat. Do the second coat after first coat is tack free. Needs curing with water for 3 days	Sqm	1350.0	620.00	837000.00
	NON SOR	Finishing the top concrete surface of flooring laid under above item by providing vacuum dewatering system ”Trimix” including finishing the top using power trowels to a smooth and fair surface.				
		Raft As Per Drawing	Sqm	1350.0	600.00	810000.00

	NON SOR	**Basement Floor (Raft) waterpeoofing**				
	NON SOR	**Grade slab/Raft/Isolated footing with AquaArm Power Prufe-1.2mm thick HDPE membrane**				
		Prooviding & laying of MYK Power Prufe 800 - 1.2mm thick As unique composite sheet, which is composed of one thick HDPE backing layer, an aggressive pressure sensitive, adhesive and trafficable, weather resistant protective granular coating, the unique membranes realizes firm bonding to poured concrete, so that prevents water ingress or migration. confirming to DIN EN 1849-1 for the thickness with puncture resistence of >990 N as per ASTM E154, and Hydrostatic head resistance >60m; properly sealing the joints & maintaning 50mm Overlap between the memberane & 100 mm overlap on the end joints of the memberane over the slab etc., complete and all as per Manufacturer's specifications and approved by consultants.	SQM	1350.0	820.00	1107000.00
	NON SOR	**Strater Joint Treatment with SealArm Waterbar RS800**				
		Providing and applying water swellable-basic polymer-hydrophilic waterstops at all construction joints, the swellable water bar shall have unrestrained volumetric expansion up to 300%, Shore A hardness of 25 to 35. The swellable water bar shall be fixed to the concrete using a gun grade hydrophilic adhesive. following strictly the instruction as per manufacture.	Rmt	350.0	600.00	210000.00
	NON SOR	**Retaining wall waterproofing**				
	NON SOR	**AquaArm SBS 3000X-1.5mm thick SBS modified waterrpoofing membrane with 100micron cross laminated HMHDPE**				

		Providing and Application of AquaArm SBS 3000x membrane all along the surface of retainingwall and footings and pedestals after through surface preparation and packing all the starter, lift , pore joints and tie rod holes with ArmGrout M65; confirming to DIN EN 1849-1 for the thickness with puncture resistence of >220 N as per ASTM E154, tear resistance of 340N including cleaning the surface, properly sealing the joints & maintaning 50mm Overlap between the memberane & 100 mm overlap on the end joints of the memberane over the slab etc., complete and all as per Manufacturer's specifications and approved by engineer in charge. (solar reflectance is not required as the it is the under ground concealed system)	SQM	517.5	690.00	357075.00
	NON SOR	**Termination of membrane using aluminium bar along the perifery**				
		Termination details : Providing & installation of aluminum termination bar minimum 38mm (1.5 inch) max above Finished Ground Level & shall be fixed with non corrosive fastener @ 4 nos per rm. Sealing of termination bar with Polyurethane Sealant as per manufacturer specification.	RMT	350.0	600.00	210000.00
	NON SOR	**Protection Board**				
		Providing and laying 8mm high dimple protection board over the waterproofing membrane to protect the membrane from damages from back-filling materials.	SQM	1260.0	250.00	315000.00
	NON SOR	Sub- Base Drain or Perimeter Drain (For Basement)				

	NON SOR	Providing & Laying Beloew Ground Perforated PVC Pipe (For Perimeter Drain)150mm Dia to withstand working Pressure of 6kg/Sqcm solid pipe confirming ti IS 13592 & IS 4985 Including Jointing with Seal Ring & perforation Rate of 5mm @200mmc/c including all necessary fitings etc Complete. Excavation To Be PAid Seperatly.	Meter	150.0	680.00	102000.00
	NON SOR	Providing , Laying & Covering Perforated PVC Pipe witrh **Polypropylene Geotextile Sheet** @ 150g/sm & Filling with Gravel & includes fixing All Fittings etc Complete.	Sqm	180.0	177.00	31860.00
		Terrace garden				
		Grassing with Selected type of grass at Terrace in following stages:				
		Stage-1:Providing & Laying of 13 mm thick Light Weight , high strength,Hi -Impact Polypropylene modular drainage cells which is to be especially designed for sub surface Drainage and Water Proofing Membrane Protection				
		Stage-2 : Providing and Laying of Non - woven Geo Textile 150 gsm over the Drainage Cells				
		Stage-3 :Supplying & Laying of Coco-pit Layer (minimum 20 mm thick)				
		Stage-4:Grasing with Selected type of grass as approved by the Architect including watering and maintenance of the Terrace lawn for 30 days or more till the grass forms a thick lawn free from weeds	Sqm.	220.0	4500.00	990000.00
		Supplying and Laying of 30 mm thick Draincell light weight , high strength,Hi-impact Polypropylene modular drainage cells which is especially designed for sub surface drainage and waterproofing membrane protection as directed by the Engineer-in-charge	Sqm.	220.0	525.00	115500.00

		Supplying and Laying of Non-Woven Geo Textile of 150 gsm over the Drainage Cells as directed by the Engineer-in-charge	Sqm.	220.0	50.00	11000.00
		Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc. complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C. Mixture paid separately).	Each			
	(I)	Golden Duranta / Duranta Speciosa / Duranta Hybrid		100.0	40.00	4000.00
	(II)	Exora Dwarf / Mini Madhumalti		75.0	400.00	30000.00
	(III)	Seasonal Flower		25.0	395.00	9875.00
	(IV)	Lantana Blue/White/Red (verigated)		25.0	90.00	2250.00
		Supplying of cement made Flowering pots/ planter of dia 600 mm.	Each	200.0	1200.00	240000.00
		Providing and laying water proofing treatment to vertical and horizontal surfaces of R.C.C. Water tank consisting of : Kerakoll make BIO FLEX, AQUASTOP 120, OSMOCEM BIO Flex and Aqua Stop 120 Tape will be used for sealing of all the vertical,horizontal joints of wall and floors and two quotes of Osmocem will be applied on the surface slabs and wall, this will be allowed to air cure for 48 hr.	Sqm.	200.0	2200.00	440000.00
		NON SOR (Fire Fighting)				
		Piping				

		Supplying, installing, testing and commissioning of G.I. Pipes confirming to IS 1239 Pt - I Heavy grade with painting, suitable type of supports, anchor fasteners, bolts nuts (Galvanised), clamps, "U" bolts, fittings such as Reducers,Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls and making them good with filler material and finished in cement morter etc. complete.				
		300mm	rmt.	2.0	7276.00	14552.00
		250mm	rmt.	2.0	6080.00	12160.00
		Supply, installation, testing & commissioning of C.I Gate Valves with Supervisary Switch with end flanges, nut, bolts and accessories complete. Gate valves with accessories shall be UL Listed / FM approved type. Complete as per technical specification & drawing details.				
		300mm	Nos.	2.0	70899.00	141798.00
		250mm	Nos.	2.0	60756.00	121512.00
		200mm	Nos.	2.0	37542.00	75084.00
		Supplying, installing, testing and commissioning of Gun metal chrome finished Ball valves with fittings of screwed end type. (PN 16)				
		15mm	Nos.	30.0	899.00	26970.00
		Supplying, installing and commissioning C.I.flanged "Y" type Strainer with SS mesh,suitable flanges, nuts, bolts, gaskets etc. complete.				
		150mm	Nos.	2.0	21362.00	42724.00
		Supply, installation, testing & commissioning of C.I Non Return Valves with end flanges, nut, bolts and accessories complete. C.I Non Return Valves with accessories shall be UL Listed / FM approved type. Complete as per technical specification & drawing details..				
		150mm	Nos.	2.0	31434.00	62868.00
		50mm	Nos.	2.0	6540.00	13080.00

		Providing and fixing pressure transducer (dial type **pressure gauge** with isolation cock) in MS pipe line (dial diametre 100mm pressure range 0-l0 kg/cm) suitable for 12 volts /24 DC. Including connection etc. as required.	Nos.	6.0	1741.00	10446.00
		Providing & fixing double flanged **flexicon expansion joint (expansion bellows)** of standard length as per manufacturers specs including rubber gaskets, flanges, nuts, bolts and washers complete as required.				
		80 mm dia	Nos.	2.0	4087.00	8174.00
		100 mm dia	Nos.	2.0	4809.00	9618.00
		150 mm dia	Nos.	4.0	6854.00	27416.00
		200 mm dia	Nos.	1.0	10463.00	10463.00
		Providing, fixing, testing & commissioning of **butterfly valve** (suitable for test pressure of 16 kg / sqcm) with flanges, nut bolts, gaskets, painting and necessary pad locking arrangement complete required.				
		100MM	Nos.	3.0	4604.00	13812.00
		Supply, installation, testing and commissioning single interlock delgue valve operated through flow switch including air compressor and panel, soleniod valve, check valve , gate valve, wiring, conduting etc. complete for automatic operation of water curtain in upper and lower basement.	Set	2.0	156617.00	313234.00
		Supply, installation, testing and commissioning high pressure resistance nozzle (15mm Dia) for water curtain in lower and upper basement area.	Each	15.0	877.00	13155.00
		Providing and fixing **mechanical foam** type Trolley Mounted Fire Extinguisher of bearing to IS:10568/IS13385/IS13386 with dis				
		Capacity 50 Kg.	Nos.	2.0	15893.00	31786.00
		NON SOR (Entrance Gate)				

	NON SOR	Add Extra for Plaster work Adding Glass Fiber R/F in Dry Mix Mortar @ 1 to 1.5 kg / 50 Kg of Cement .	Kg	23.0	85.00	1955.00
	NON SOR	Providing & Fixing of UPVC Fixed/Sliding windows of FENESTA,DECEUNINCK or REHAU make including necessary window accessories like Hurricane bar, Rain track, Trims etc. and window hardware as per design and direction of Engineer-in-charge and as per following: 1) PROFILE/FRAME: All window Profile/frame is to be extruded from a compound that has been blended to ensure quality and consistency. The material must be pristine white high impact modified window grade UPVC and must be colorfast and conform to BS: 7413 code. The profile shall be a hollow- 3 chambers (across depth) profile with outer wall thickness of 2.4mm (minimum). The outer profile shall have a front to back depth of 65/118mm. The profile shall be uniform and free from foreign bodies, cracks or marks. Note: No profile shall contain recycled material. 2) FABRICATION: The window units shall be designed with all corner joints, transom joints and mullion joints being mitered and fusion welded. All excess material is to be neatly trimmed and neatly feature grooved/raised nib finish at corners, tronsom joints and mullion joints. Finished	Sqm	2.9	7501.00	21602.88
		Internal Sprinkler & Hydrant				
	1	Supplying, installing, testing and commissioning **Quick Response** Sprinkler quartzoid bulb type with screwed end connection Sprinklers shall be UL Listed / FM approved with Chrome finished.				
	1.1	15 mm dia - Rating 79°C (Pendent Type) K-80 with Rossette	Nos.	50.0	442.00	22100.00
	1.2	15 mm dia (Horizontal side wall Extended Coverage) K-80 with Rossette	Nos.	50.0	396.00	19800.00
	2	Supply, erection, testing & commissioning of S.S Flexible Pipes for Sprinkler Connection				

	2.1	1500mm	Nos.	30.0	1676.00	50280.00
	2.2	1000mm	Nos.	25.0	1396.00	34900.00
	2.3	700mm	Nos.	30.0	1278.00	38340.00
	3	Supplying, installing, testing and commissioning of 25mm dia **Inspection and Testing assembly** with GM sight glass, GM isolation, by pass valves and connected to drain line complete (excluding the cost of drain pipe)	Nos.	7.0	2607.00	18249.00
		Gun metal Air Purge Valve with ball valve & other accessories				
	3.1	25 mm dia BSP male threaded	Nos.	3.0	373.00	1119.00
	4	**Fire Door :-** Providing and Installing Galvanized Steel Flush Fire Door of 46mm Thick confirming to BS 476 (Part 20 and 22) and IS 3614 Part -2 For Stability, Integrity, Having Insulating properties and to be designed for 2 hrs Fire Rating. The door frame shall be double rebate profile size of 100 x 57 mm made out of 1.6 mm thick galvaized steel. the shutter shall be 46 mm thick fully flush madeout of 1 mm thick galvanized steel both side in fill material shall be resin bonded honey comb craft paper, Door Frames and Shutters Shall be Finished with epoxy Zinc phosphate stowing primer and finished paint shall be in polyurethene aliphatic grade, UV resistant oven dried paint for superior addition. (Including futher items Acodor make - like Hinges. S.S Ball Bearing Hinges,Panic Bar , Panic trim:, DOOR CLOSER, Vision Panel, D-Type Handle, Fastner, Fitting Charges.				
		Acodor- Door Size - 1200 X 2100 mm				
			EACH	2.0	48975.00	97950.00
		TOTAL CIVIL WORK + FIRE FIGHTING NON SOR (B)				**7711271**