

Schedule -A		
NAME OF WORK : Providing Approach Road (External) to International Furniture Park in SIPCOT Industrial Park, Thoothukudi (Ch: Km 0+000 to 0+610)		
Section	Description of work	Amount (Rs.)
I	Road Work (Ch: 0+000 to 0+610)	
II	Box Culverts (2 Nos) (2m Span)	
III	Drainage	
IV	Electrical Duct	
V	Footpath & Median	
VI	Providing New LED Street Lights (21 Nos)	
VII	Providing New Minimast Lights (1 No)	
	Sub Total	
	GST 18% on Sub Total	
	GRAND TOTAL	
(Rupees_____only)		

No of corrections:
No of overwrittings:

CONTRACTOR

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I. Road Work (Ch: 0+000 to 0+610)						
Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
1	21960.00 Sqm (Twenty One Thousand Nine Hundred and Sixty Square metre only)	Clearing the light jungle with uprooting as per standard specification and dispose them by burning and clearing the site etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	
2	20600.00 Cum (Twenty Thousand Six Hundred Cubic metre only)	Removing the top soil including earth work excavation in all classes of soils , removal of weeds and vegetation, roots etc., and depositing in the places shown by the Engineer incharge etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
3	14200.00 Cum (Fourteen Thousand Two Hundred Cubic metre Only)	Forming the embankment with carted earth with a initial lead of 21 Km including conveyance, laying, watering and consolidation etc., complete complying with standard specifications and as directed by SIPCOT Officers as per MORTH Specification clause No.111, 112, 305, 900.			1 Cum (One Cubic metre)	
4	12910.00 Cum (Twelve Thousand Nine Hundred and Ten Cubic metre Only)	Forming the Sub grade with carted earth having minimum CBR of 8% with a initial lead of 21 Km including conveyance, laying, watering and consolidation etc., complete complying with standard specifications and as directed by SIPCOT Officers as per MORTH Specification clause No.111, 112, 305, 900.			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
5	4985.00 Cum (Four Thousand Nine Hundred and Eighty Five Cubic metre Only)	Construction of Granular Sub - Base (GSB) to the required compacted thickness (Drainage layer) by providing approved Coarse graded material conforming to Grading- V of Table 400 - 1 and satisfying the physical requirement for material for GSB as per Table 400 - 2 of MORTH Rev.-5 including screening, spreading in uniform layers with motor grader on prepared surface, watering and premixing by mix in place method with rotavator at OMC, and compacting with Vibratory roller 80 to 100 KN static weight to achieve the desired density and fine dressing to required grade and cross slope as directed by the SIPCOT officers etc., complete including obtaining and transporting all materials from approved quarry site to work site with all lift and lead by mechanical transport, head load or any other mode of transporation including cost and conveyance of all materials, labour charges,hire charges and fuel charges for loader, water tanker with sprinkler,motor grader, vibratory road rollers and all other equipments, tools and plants, safety measures, testing required including all other incidental charges, etc., complete as per the standard specification as per clause 401 of MORTH Rev.-5 etc., complete complying with standard specification and as directed by SIPCOT officers. (GSB 200mm Thick)			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
6	461.00 Cum (Four Hundred and Sixty One Cubic metre Only)	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam Base Course of 250mm compacted thickness specification in two layers of 125mm thick each or else as specified on the prepared sub base by providing approved Coarse graded material conforming to Table 400 - 13 and satisfying the physical requirement for material for WMM as per Table 400 - 12 of MORTH Rev.-5, including pre-mixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with favours in subbase/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density including cost of material, labour charges, rental for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev.-5 etc., complete complying with standard specification and as directed by SIPCOT officers. (WMM 250mm Thick).			1 Cum (One Cubic metre)	
7	1843.00 Sqm (One Thousand Eight Hundred and Fourty Three Square Metre Only)	Providing and laying Prime coat over wet mix macadam surface using 7.00 Kg bitumen(SS1) for 10 sqm area including cost and conveyance of bitumen binder including labour charges for preparing the surface and applying the required quantity as tack coat by bitumen sprayer etc.complete as per clause 502 of MORT & H specifications etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
8	1843.00 Sqm (One Thousand Eight Hundred and Forty Three Square Metre Only)	Providing and laying Tack coat over treated wet mix macadam surface using 2.50 Kg(RS1) bitumen emulsion to cut back for 10 sqm area including cost and conveyance of bitumen binder including labour charges for preparing the surface and applying the required quantity as tack coat by bitumen sprayer and complete as per clause 503 of MORT & H specifications etc.,complete complying with standard specifications and as directed by SIPCOT Officers. (Over WMM)			1 Sqm (One Square metre)	
9	222.00 Cum (Two Hundred and Twenty Two Cubic metre Only)	Providing and laying 120mm consolidated thick Dense Bituminous Macadam using 0.24 cum of 26.50-13.20mm, 0.25cum of 13.20-2.36mm and 0.23cum of 2.36mm & below and with 53.20 Kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic rollers and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5 Specification and complete complying with standard specifications and as directed by SIPCOT Officers. (for 120mm Thick)			1 Cum (One Cubic metre)	

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1	2	3	4	5	6	7
10	1843.00 Sqm (One Thousand Eight Hundred and Forty Three Square Metre Only)	Providing and laying Tack coat over treated Dense macadam surface using 2.00 Kg bitumen emulsion (RS1) to cut back for 10 sqm area including cost and conveyance of bitumen binder including labour charges for preparing the surface and applying the required quantity as tack coat by bitumen sprayer and complete as per clause 503 of MORT & H specifications etc., complete complying with standard specifications and as directed by SIPCOT Officers. (Over DBM)			1 Sqm (One Square metre)	
11	74.00 Cum (Seventy Four Cubic metre Only)	Providing and laying 40mm compacted thickness Bituminous Concrete using 0.13 cum of 19.0 - 9.5 mm graded IRC size HBG metal 0.17 cum of 9.5-2.36mm IRC graded metal and 0.26 Cum. of 2.36 mm and below size graded metal with 50.30 of bitumen grade VG 30/VG40 confirming to IS 73 for pre mixing for 10 Sq. meter and using materials as per table 500 - 17 and staifying the physical requirement for material for course aggregates for BC as per table 500 - 16 of MORTH REV-V including cost and conveyance of all materials to CMP site , heating the bitumen and aggregates to required temperature and mixing them in required temperature in central hot mix plant 20-30 tonnes capacity, conveying the mix by tipper trucks to paver site spreading the mix in required temperature for uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidation 80-100 kn vibratory/Pneumatic road roller to the required density etc., includinglabour charges for loading the bitumen in bitumen tank and metal to feeder unit, labour for attending to paver site etc., including hire, fuel charges for 20-30 tonnes capacity CMP unit bitumen boiler, tipper trucks, paver finaisher/9 m paver finisher /Vibratory/Pneumatice road roller , and all other tools and plants requiried, including fuel and all other incidental charges etc., complete as perspecification using CMPP as per clause 507 OF MORTH REV. specification and as directed by SIPCOT Officer. (for 40mm Thick)			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
12	2857.00 Cum (Two Thousand Eight Hundred and Fifty Seven Cubic metre Only)	Providing M-20 Reinforced Cement Concrete 1: 1 1/2 : 3 (One cement, One and a half M-sand and three jelly) for using Machine crushed 20mm size Hard Broken granite ISS stone Jelly for all "REINFORCED CEMENT CONCRETE WORKS" including cost and conveyance of all materials and labour to work site excluding cost of centering, shuttering, strutting and cost of MS / RTS Reinforcement grills placed in position but including machine mixing of concrete, laying, vibrating with mechanical vibrators, finishing, curing, including cost of soft potable water treatment of bearing, smooth with cement mortar 1:3 (One cement and Three m-sand) and kraft paper laid over it without claim for extra and and all labour charges for mixing concrete, laying, curing, vibrating charges, hire charges for all tools and plants and all other incidental charges etc., complete complying with standard specifications and as directed by SIPCOT officers. (for 150mm Thick DLC)			1 Cum (One Cubic metre)	
13	5333.00 Cum (Five Thousand Three Hundred and Thirty Three Cubic metre Only)	Providing Reinforced cement concrete M40 (Design Mix) 20mm HBG ISS stone jelly including cost and conveyance of all required materials at site and all labour charges for mixing concrete, laying, curing, vibrating charges hire charges for all tools and plants and all other incidental charges etc., complete complying with standard specifications and as directed by SIPCOT Officers. (for 280mm Thick PQC)			1 Cum (One Cubic metre)	
14	482.00 Qtl (Four Hundred and Eighty Two Quintal Only)	Supplying, fabricating and placing in position of HSD steel rods for reinforcement including the cost of steel and binding wire etc., complete complying with standard specifications and as directed by SIPCOT Officers.. (up to 16mm size of M.S. Rods and RTS rods). (For 36mm dia Dowel Bars and 12mm dia Tie Bar)			1 Qtl (One Quintal)	

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1	2	3	4	5	6	7
15	4214.00 Sqm (Four Thousand Two Hundred and Fourteen Square Metre Only)	Supplying and erecting steel centering for sides and soffits including supports and shuttering to the required height for RCC items using MS Sheets or suitable size 25mm x 25mm x 3mm of boarding, laid over silver oak joints of size 10 cm x 6.5 cm spaced at 90 cm c/c and supported by causaring props of 10 cm to 13 cm dia spaced at 75 cm c/c complying with standard specifications etc., complete complying with standard specifications and as directed by SIPCOT Officers. (for Road Rigid Pavement)			1 Sqm (One Square metre)	
16		Providing and erecting of Retro - Reflectorised Cautionary, Mandatory and Informatory sigs (without definition oard) made out of High Intensity Prismatic grade Sheeting confirming to type-IV standards of IRC-67: 2012 AND astm d 4956-09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75x75x6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. the sign post should be painted as per IRC 67-2012 and firmly fixed to the groud by means of properly designed foundation with M15 grade cement concrete 45cmX45CMX60cm size including cost and conveyance of all materials, equipment, machinery and labout with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro - Reflectro sheet shall consist of minimum coefficient of Retro reflection as per Table 6.6 of IRC 67 - 2012. The retro - reflective sheeting shall be convered under 7 year waranty issued for field performance and a certified copy of theree years outdoor exposure report shall be obtained as per IRC 67: 2021, (as per MORT&H Specification no.801) etc., complete complying with standard specifications and as directed by SIPCOT Officers.				

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
a	15.00 Nos (Fifteen Numbers Only)	Cautionary boards (90cm equilateral triangle)			1 No (Each)	
b	2.00 Nos (Two Numbers Only)	Cautionary boards (60cm circular triangle)			1 No (Each)	
c	3.00 Nos (Three Numbers Only)	Stop Sign (90cm high Octagon)			1 No (Each)	
17	3.00 Sqm (Three Square Metre Only)	Providing and erecting of direction and Place identification Retro-reflectorised sign made out of High Intensity Prismatic Grade Sheeting confirming to Type-IV standards of IRC-67:2012 and ASTM D 4956-09, specification and fixed over 2mm thick Aluminim sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75x75x6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro Reflectro sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.6 of IRC 67-2012. The retro-reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012. (as per MORT&H Specification No.801) (Information boards area having more than 0.9sqm) etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	

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1	2	3	4	5	6	7
18	9.00 Nos (Nine Numbers Only)	Providing and Erecting of Retro-Reflectorized Hazard Marker Traffic Sign made out of High Intensity Prismatic Grade Sheeting confirming to Type-IV standards of IRC-67:2012 and ASTM D 4956-09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm and 0.60m below ground level. the sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro - Reflecto sheet shall consist of minimum coefficient of retro-reflection as per table 6.6 of IRC 67-2012. the retro-reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012. (as per MORT&H Specification No.801) etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 No (Each)	
19	1277.00 Sqm (One Thousand Two Hundred and Seventy Seven Square Metre Only)	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes etc complete as per MORT&H specification No.803) etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	

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1	2	3	4	5	6	7
20	1169.00 Nos (One Thousand One Hundred and Sixty Nine Numbers Only)	Providing and fixing of road studs of 'category A' Raised pavement markers made out of poly carbonate / methyl methercrylate / ABS moulded body confirming to ASTM D 788 and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face with retro reflectanc eand chromaticity values conforming to ASTM D4280. The reflective raised pavement markers shall also confirm to the MORTH circular No RW / NH. 33023/10/97-DO.III dt 11.06.97. The height, width and length shall not be less than 15mm, 90 mm and 100 mm and with minimum reflective area of 13 Sq.cm. on each side and the slope to the base shal be 35 +/- 5 degree. Each reflector shall have a CIL not less than values specified in Table 2 of said Morth circular. the strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19+/- 2mm and height not less than 30+/-2mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. the marker shall support a load of 13635 Kg. tested in accordance with ASTM d4280 and confirming to IRC 35 - 2015 guidelines and MORT&H specification 804 etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 No (Each)	
21	124.00 Nos (One Hundred and Twenty Four Numbers Only)	Supplying and installation of delineators (road way indicators, hazard markers and object markers), 80-100 cm high above ground level, painted at alternatively black and white in 15cm wide strips, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming to IRC-79 etc., complete complying with standard specifications and as directed by SIPCOT Officers. (as per MORT&H specification No.806)			1 No (Each)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
22	307.00 Nos (Three Hundred and Seven Numbers Only)	Providing fixing of Median marker double sided made of polycarbonate for impact resistance and good weather ability. Polycarbonate used for molding the median marker shall have a minimum Izod impact strength value of 600 J/m at room temperature. The impact strength of the poly carbonate should not decrease to less than 70% of its initial value on being subjected to UV weathering as per ASTM G 155 for 1000 hours or exposure to 2 years of natural weathering. The body of the median marker shall be in the form of an isosceles trapezoidal structure of length 15cm height and width of 10 x 10 cm. The median marker shall have fluorescent yellow retro - reflective sheeting confirming to type XI specifications as per ASTM D 4956. Area or reflective sheeting should not be less than 70 cm2. edge of retro reflective shall be concealed using a grill / mesh / similar mechanism to prevent vandalism and sheeting pilferage. the logo of the manufacturer shall be embossed and painted in contrasting colour on both side of median marker for distinct identification etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 No (Each)	
		Section I - 22 Items (Twenty Two Items only)			Sub Total-I	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
II. Box Culverts (2 Nos) (2m Span)						
1	616.00 Cum (Six Hundred and Sixteen Cubic metre Only)	Earth work open excavation for foundation in all classes of soils and sub-soils and to full depth as may be directed except in hard rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification and as directed by SIPCOT officers.			1 Cum (One Cubic metre)	
2	40.00 Cum (Forty Cubic metre Only)	Supplying and filling of Quarry dust to a thickness of 100 mm including cost and conveyance of sand to work site including labour charges for spreading etc., complete for bottom of culvert as per standard specification and as directed by SIPCOT Officials.			1 Cum (One Cubic metre)	
3	60.00 Cum (Sixty Cubic metre Only)	Plain cement concrete 1:4:8 (one cement, four sand and eight aggregates) using 40mm HBGS stone jelly excluding cost of mixing charges, laying & curing of concrete etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
4	426.00 Cum (Four Hundred and Twenty Six Cubic metre Only)	Providing and laying in position, Standardised Concrete Mix M-30 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 400 kg/m³ and maximum water cement ratio of 0.45, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards etc., complete complying with standard specifications and as directed by SIPCOT Officers. (No separate payment will be made by the Department for the excess usage of materials).			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
5	12.00 Cum (Twelve Cubic metre Only)	Providing and laying in position, Standardised Concrete Mix M-40 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 440 kg/m³ and maximum water cement ratio of 0.40, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5136 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards etc., complete complying with standard specifications and as directed by SIPCOT Officers. (No separate payment will be made by the Department for the excess usage of materials).			1 Cum (One Cubic metre)	
6		Supplying and erecting steel centering for sides and soffits including supports and shuttering to the required height for RCC items using MS Sheets or suitable size 25mm x 25mm x 3mm of boarding, laid over silver oak joints of size 10 cm x 6.5 cm spaced at 90 cm c/c and supported by causaring props of 10 cm to 13 cm dia spaced at 75 cm c/c etc., complete complying with standard specifications and as directed by SIPCOT Officers. (For RCC Box Culvert)				
a	211.00 Nos (Two Hundred and Eleven Numbers Only)	Horizontal (Plane Surface)			1 No (Each)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
b	1061.00 Nos (One Thousand Sixty One Numbers Only)	Vertical Surface			1 No (Each)	
7	566.00 Qtl (Five Hundred and Sixty Six Quintal Only)	Supplying, fabricating and placing in position of HSD steel rods for reinforcement including the cost of steel and binding wire etc., complete complying with standard specifications and as directed by SIPCOT Officers. (up to 16mm size of M.S. Rods and RTS rods).			1 Qtl (One Quintal)	
8	308.00 Cum (Three Hundred and Eight Cubic metre Only)	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification etc., complete complying with standard specifications and as directed by SIPCOT Officers..			1 Cum (One Cubic metre)	
9	1202.00 Cum (One Thousand Two Hundred and Two Cubic metre Only)	Filling behind Structures as per Appendix 6 of IRC:78-2014 & MORT&H specifications, 2200 with clean gritty free draining gravel including cost and draining gravel having PHI value more than 35 conveyance of gravel to worksite, laying, handling charges and filling in layers, tamping under optimum moisture content to get the maximum density including watering, with all leads for water and all other incidental charges etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
10	95.00 Rm (Ninety Five Running Metre Only)	Providing weep holes in brick masonry/plain/reinforced concrete abutment, wing wall/return wall with 100 mm dia PVC Pipe extending through the full width of the structure with slope of 1V: 20H towards drawing face. Complete as per Drawing and Technical Specifications etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Rm (One Running Metre)	
11	48.00 Cum (Fourty Eight Cubic metre Only)	Construction of Flexible apron 1 m thick comprising of loose stone boulders weighing not less than 40 Kg beyond curtain wall. as per drawing and Technical Specifications - for Flexible apron etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
12	100.00 Sqm (One Hundred Square Metre Only)	Painting two coats of black and white bands alternatively each coat separately using black and white synthetic enamel paints of approved quality including cost and conveyance of paint, painting articles and utensils, labour charges etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Sqm (One Square metre)	
		Section II - 12 Items (Twelve Items only)			Sub Total-II	
III. Drainage						
1	2288.00 Cum (Two Thousand Two Hundred and Eighty Eight Cubic metre Only)	Earth work excavation in all soils except in hard rock requiring blasting for culvert with initial lead and lift including the conveyance of excavated earth in low lying areas with a lead of 1 Km of places as shown by the SIPCOT Officers etc., complete with standard specification and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
2	190.00 Cum (One Hundred and Ninety Cubic metre Only)	Supplying and filling of Quarry dust to a thickness of 150 mm including cost and conveyance of sand to work site including labour charges for spreading etc., complete for bottom of culvert as per standard specification and as directed by SIPCOT Officials.			1 Cum (One Cubic metre)	

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Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
3	190.00 Cum (One Hundred and Ninety Cubic metre Only)	Plain Cement Concrete 1:4:8 using 40 mm size HB Jelly for foundation including levelling compaction etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
4	1220.00 Rm (One Thousand Two Hundred and Twenty Running Metre Only)	Providing and laying in position of Precast Drain using, Standardised Concrete Mix M-20 Grade in accordance with IS:456-2000, including cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, pvc pipe for drain holes, vibrating with mechanical vibrators, finishing, curing, and other miscellaneous., etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards.			1 Rm (One Running Metre)	
		Section III - 4 Items (Four Items only)			Sub Total-III	
IV. Electrical Duct						
1	2395.00 Cum (Two Thousand Three Hundred and Ninety Five Cubic metre Only)	Earth work excavation in all soils except in hard rock requiring blasting for culvert with initial lead and lift including the conveyance of excavated earth in low lying areas with a lead of 1 Km of places as shown by the SIPCOT Officers etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
2	19.00 Cum (Nineteen Cubic metre Only)	Supplying and filling of Quarry dust to a thickness of 150 mm including cost and conveyance of sand to work site including labour charges for spreading etc., complete for bottom of culvert as per standard specification and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	
3	19.00 Cum (Nineteen Cubic metre Only)	Plain Cement Concrete 1:4:8 using 40 mm size 10 mm thick HB Jelly for foundation including levelling compaction etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
4	121.00 Cum (One Hundred and Twenty One Cubic metre Only)	Providing and laying in position, Standardised Concrete Mix M-20 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m ³ and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials). Duct manhole			1 Cum (One Cubic metre)	
5		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc., Complete complying with standard specification and as directed by SIPCOT Officers.				
a	1.10 Sqm (One Point One Zero Square metre Only)	Horizontal (Plane Surface)			1 Sqm (One Square metre)	

No of corrections:

No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
b	13.00 Sqm (Thirteen Square metre Only)	Vertical Surface			1 Sqm (One Square metre)	
6	110.00 Qtl (One Hundred and Ten Quintal Only)	Supplying, fabricating and placing in position of HSD steel rods for reinforcement including the cost of steel and binding wire etc., complete complying with standard specifications and as directed by SIPCOT Officers. (up to 16mm size of M.S. Rods and RTS rods).			1 Qtl (One Quintal)	
7	3135.00 Rm (Three Thousand One Hundred and Thirty Five Running Metre Only)	Supplying and laying of 600 mm dia. RCC non pressure spun pipes with socket and spigot ends - NP 4 class as per IS 458/2003 manufactured with sulphate resistance cement with 12 mm Hi- alumina lining with rubber rings including labour charges for laying at proper levels and locations as directed by Engineer in charge, transportation cost, jointing materials etc., complete complying with standard specifications and as directed by SIPCOT Officers. for every 10m of road length.			1 Rm (One Running Metre)	
		Section IV - 7 Items (Seven Items only)			Sub Total-IV	
V. Footpath & Median						
1	27.00 Cum (Twenty Seven Cubic metre Only)	Plain Cement Concrete 1:4:8 using 40 mm size 10 mm thick HB Jelly for foundation including levelling compaction etc., complete complying with standard specifications and as directed by SIPCOT Officers.			1 Cum (One Cubic metre)	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
2	156.00 Cum (One Hundred and Fifty Six Cubic metre Only)	Providing and laying in position, Standardised Concrete Mix M-20 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m³ and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials).			1 Cum (One Cubic metre)	
3	13.00 Sqm (Thirteen Square metre Only)	Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc., Complete complying with standard specification and as directed by SIPCOT Officers. (Vertical Surface)			1 Sqm (One Square metre)	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
4	1986.00 Cum (One Thousand Nine Hundred and Eighty Six Cubic metre Only)	Earth work filling in median and Island with approved material with all leads and lift brought from borrow pits, spread, sloped and compacted as per MoRTH specification clause 407			1 Cum (One Cubic metre)	
5	1600.00 Sqm (One Thousand Six Hundred Square metre Only)	Supplying and fixing of Anti skit tiles 20mm thick, etc., Completed complying with standard specification and as directed by SIPCOT Officers. For Footpath			1 Sqm (One Square metre)	
		Section V - 5 Items (Five Items only)			Sub Total-V	
VI. Providing New LED Street Lights (21 Nos)						
1	21.00 Nos (Twenty One Numbers Only)	Supply, and erection of 10 mtrs length GI Steel Tubular pole with double bracket made up of 3 section of GI pipe with 5.2m mtr length of 139.7mm dia and 4.5mm thick and 2.40length of 114.3m dia and 4.50mm thick and 2.40mm length of 88.90mm dia and 3.25mm thick complete with ms base plate of size 300 x 300 x 6 mm at the bottom. The pole shall be provided with a suitable Arms suitable for mounting LED 120W Modular type street light luminarie. The Arms shall be length and size as specified in the drawing enclosed Pole Pedestal Foundation (circular) (0.6m dia & 2m height) with 1:4:8 PCC below footing. Double collars.			1 No (Each)	
2	21.00 Nos (Twenty One Numbers Only)	Providing loop-in loop-out box of size 12" x 10.5" with consist of 8" x 6" 1no porcelain fuse unit and 1 no Clip-on type 4 way loop-in, loop-out cable terminal assembly for terminating 2 Nos of 2 core 25 Sqmm armoured aluminium conductor underground cable. The MS 16 SWG box shall be at a height of 1.8m from the ground level and 50mm dia G.I. conduit sleeve 1 set (2 nos) for cable entry and out in cement concrete the sleeve length is 1 mtr height including pole painting and 8 SWG coiled earth wire being connected to a suitable earth bolt welded to the pole etc. complete and as directed by SIPCOT Officers.			1 No (Each)	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
3	42.00 Nos (Forty Two Numbers Only)	Supplying, installation testing and Commissioning of Philips / crompton / Bajaj 120 watLED modular type light fitting including wiring from Loop out box to the illuminarie in the bracket on the pole with insulated Copper conductor wire etc. complete including fixing charges and using material ladders and laying jointing of 3 core x 2.5 sqmm copper cable from fitting to pole box fuse unit including cost of material and labour etc. complete and as directed by SIPCOT Officers.			1 No (Each)	
4	1.00 No (One Number Only)	Supply, installation, testing and commisioning of out door Street Lighting distribution pillar made out of 16 SWG sheet steel metal incorporated with 1 No 100 amps TPN rewirable fuse switch and 32A 6 way fuse DB provided with 440 V coil and 1 No 63 amps TP conductor with 440 V coil and 1 No. 24 Hrs timer of L & T make with its control wiring power interconnection with 7/16 copper wire from mainswitch to contactor and contactor to fuse DB pillar fabricated with front double door arrangements with locking facility painted with one coat of primer and 2 coats of aluminium finish. The pillar to be erected with suitable angle iron frame pedestal with concrete grouting etc. complete and as directed by SIPCOT Officers.			1 No (Each)	
5		Supply and laying of the following armoured LT under ground aluminium cable in the HDPE Pipe as per the specification enclosed. The price shall be inclusive of all end termination jointing etc., as required at the site. necessary cable brackets shall also be taken into account for the cables to be brought into the feeder pillars and lighting cubic as per IS 1554 (Part-II) etc. complete and as directed by SIPCOT Officers.				
a	50.00 Rm (Fifty Running Metre Only)	3 1/2 X 70 Sqmm			1 Rm (One Running Metre)	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
b	1120.00 Rm (One Thousand One Hundred and Twenty Running Metre Only)	2 x 25 Sqmm			1 Rm (One Running Metre)	
6	1.00 No (One Number Only)	Supply and fixng of TNEB meter board suitable for 3 phase 200A service connection made up of suitable angle iron frame work of size 3 feet x 2 feet using angle iron of size 1-1/2" x 1-1/2" x 1/4" rigidly fixed on wall covered with hylem sheet of size 3 feet x 2 feet of 12mm thickness with necessary bolts and nuts supports and supply and fixing of 3 Nos. 200A fuse units (500V), 1 No. neutral link, copper earth flat of size 1" x 1/4" with inter connection of EB meter to fuse units by 19/16 PVC insulated copper wire with earth connection complete SD-131 2021-22 etc. complete and as directed by SIPCOT Officers.			1 No (Each)	
7	4.00 Nos (Four Numbers Only)	Earthing as per the ISI specification with an earth electrode of 2.10 metre Class 'B' GI pipe of dia not less than 40mm with copper earth plate of size 125mm x 50mm x 6mm with necessary funneling arrangements with necessary masonry work and with 38mm RCC cover slab for the brick masonry (SD-233) (2021-2022) etc. complete and as directed by SIPCOT Officers.			1 No (Each)	
8	1.00 No (One Number Only)	Supply and fixing of 200A of 3Nos fuse fixing in teak wook board and laying 3 1/2 X 70 sqmm U.G.Cable inside the 2 1/2 G.I. pipe with suitable clamping the pipe in the E.B. pole to service connection pillar box etc. complete and as directed by SIPCOT Officers.			1 No (Each)	
		Section VI - 8 Items (Eight Items only)			Sub Total-VI	

No of corrections:
No of overwritings:

Sl. No.	Qty	Description of item	TNBP No.	Rate both in figure and in words	Unit	Amount
1	2	3	4	5	6	7
VII. Providing New Minimast Lights (1 No)						
1	1.00 No (One Number Only)	Supply of 12 mtr. Minimast shaft suitable for 106Km/Hr wind speed of approved make with raising lowering system comprising , head frame, luminaries carriage suitable to install 6 nos. of 150W LED Iuminaries in symmetrical arrangement, double drum winch, 6 mm diameter SS wire pope, trailing cable ,connector integral power tool motor, manual handle, junction box ,lighting final/ Wiring material , Power cables between panel and mast, MCB in base compartments are not included etc., supply, and delivery of foundation bolts with length 750mm -M24 size with nuts and washers and template size of 300 mm x 300 mm etc., as per standard specifications, Erection of the 12m height Minimast with the help of suitable tools and plants, wiring of luminaries with all wiring materials like PVC insulated PVC sheathed flexible cable of suitable copper Conductor cores of 1.5 sq.mm , lugs and labour etc., Supply and fixing of rectangular LED flood light with innovative thermal management with multiple optics and equipped with IP 66 protection vide cat ref: LSFO-300-CDL/60 with 5 year warranty. 6nos x 150W., Supply of twin dome aviation obstruction lights with two nos. of 100w GLS lamps., providing foundation arrangements to the minimast lights as per standard specification PWD Electrical detailed data 2021-2022 - XV Part O Sl.No. 3.			1 No (Each)	
		Section VII - 1 Item (One Item only)			Sub Total-VII	

No of corrections:
No of overwritings: