अधीक्षण अभियंता का कार्यालय, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।

प्रेषक.

ई0 खलीकुज्जमा, अधीक्षण अभियंता.

सेवा में.

नोडल पदाधिकारी, F.D.R, कोषांग, ग्रामीण कार्य विभाग, बिहार, पटना।

मधेपुरा, दिनांक 21.05.22/

विषय:

ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा के अन्तर्गत शीर्ष FDR (वित्तीय वर्ष 2021-22) योजना का बाढ़ से क्षितग्रस्त पथांशों का अस्थाई पुनर्स्थापन कार्य का प्राक्कलन के प्रशासनिक अनुमोदन प्रदान करने के संबंध में।

प्रसंग :

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा का पत्रांक !7.2.... अनु0, दिनांक -1915]22--- एवं अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक मु0अ0-4(मु0)विविध(कार्य)23-291/2019-4849 पटना, दिनांक 07.12.2021

महाशय,

11.

उपर्युक्त विषयक प्रसांगिक पत्र द्वारा प्राप्त कार्य प्रमंडल, मधेपुरा अन्तर्गत शीर्ष FDR (वित्तीय वर्ष 2021-22) योजना का बाढ़ से क्षितिग्रस्त पथांशों का अस्थाई पुनर्स्थापन कार्य का डी०पी०आर० कर प्रशासनिक अनुमोदन हेतु समर्पित की जाती है। जिसकी

विवरप	गी निम्नवत है।		क्षतिग्रस्त	
6.			भाग की	तकनीकी स्वीकृति
क्र0	प्रखंड	योजना का नाम	लम्बाई	की राशि (Lakh)
	- L		(KM)	7
1	Singheshwar	NH 106 Nariyal Vikash Board To	0.04	1.63597
1.		Sukhasan Budhawe To Latrahi	0.269	7.93050
2.	Singheshwar	Singheshwar Birali Belari Road	1.662	34.42555
3.	Singheshwar	Barhari NH 106 Se Babhani Path Mahuli	0.858	15.23901
4.	Singheshwar	(ED.)	0.033	13.02978
5.	Gamhariya	Jagir To Singhiyan	0.258	9,27227
	Kumarkhand	Kumarkhand To jaduapatti	4	23.03287
6.	Kumarkhand	Kum <mark>a</mark> rkhand To Ra <mark>m</mark> ganj	0.354	
7.		Kumarkhand Rauta Tengraha	0.077	1.54242
8.	Kumarkhand	NH 106 To Rauta Bridge Via Berali	0.180	5.16275
0	Kumarkhand	Ranipatti	0.045	5,29505
9.	. Ishand	Tikuliya hat To Laxmipur Bhagwati	0.315	5,29303
10.	Kumarkhand	Vichwa Bank Path	0.501	11.30913
100000	Kumarkhand	Kumarkhand Israinkala Jorawarganj		
11	1,000	DTO /		

P.T.O.

क्र0	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
12.	Kumarkhand	Ratanpatti Sadak Korlahi To Kewatgama Chowk	0.231	3.00461
13.	Kumarkhand	Madhuban to Gopipur	0.173	2.08435
14.	Kumarkhand	PMGSY Sadak Kankar To Semarahi	0.421	6.75308
15.	Murliganj	Murliganj NH 107 To Pakilpar (Harpur)	1.016	23.65990
16.	Murliganj	Belo Chamgadh Se Chatra Kantahi	0.910	27.52292
17.	Shankarpur	Sonbarsa To Shankarpur	0.361	4.57169
18.	Kumarkhand	Baisarh To Bhairopur	0.057	0.23201
19.	Kumarkhand	Tikuliya Bhatani Bhokaraha Samarpan School Tengraha Mandir Via Basantpur Durga Mandir PMGSY Road	0.673	14.56602
20.	Murliganj	Middle School Rajani PWD Road To Pratap Nagar	0.030	0.80131

21. Murliganj Jorgama Panchayat me Surlila Den 0.022 Ke Ghaz se MMGSY Path Hanuman Mandir विश्वासमाजन,

1.92630

अनु0:--प्राक्कलन एक--एक प्रति में।

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।

11 /21/05/2



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2021-22)

STATE DICTRICT BLOCK DIVISION

BIHAR Madhepura Sigheshwar Madhepura

DETAILED ESTIMATE FOR TEMPRORY RESTORATION OF ROAD FROM SINGHESHWAR BIRAILI BELARI ROAD WITH 5 YEAR MAITENANCE.

Actual Length of Road	=	6.300 Km
Flood affected Length of Road	=	1.662 Km
TOTAL COST OF PAVEMENT	Rs	3,442,555.02
TOTAL PROJECT COST	Rs	3,442,555.02
•		

Submitted By: Executive Engineer RWD (W) Division, Madhepura

Prepared By: Executive Engineer RWD (W) Division, Madhepura

Inspection Report for Flood Damage work

Date:-

1 Name of PIUS :-

Madhepura.

2 Name of Block :-

3 Name of Road :-

Singheshwar Restoration of Road from. Singheshwar Biraili

Belori Road with syear maintenance.

A. For Road

1 Damage Location/Chainage: Ob 1000, 1000 & 1210, 1200 6 1710, 2200 & 2610 & 3110, 3110 & 390, 3900+4200, 4200+360, 5600+6300

2 Damage Length:- 1.66210M.
3 Nature of damage:- heavy Rounfel!
4 Details of Restoration Works:-Brick Bats i Material being used in Restortion works:-

ii Equipments/Tools being used in Restoration works: - Greater, J.C.B.

iii Procedure taken up in Restoration works:-

iv Restored Length: 1.662 / w.

B. For Bridge

- 1 Damage Location/Chainage :-
- 2 Damage Length :-
- 3 Nature of damage :-
- 4 Details of Restoration Works :-
- i Material being used in Restortion works:-
- ii Equipments/Tools being used in Restoration works:-
- iii Procedure taken up in Restoration works:-
- iv Restored Length:-

Signature (Name of inspector)

∹तकनीकी प्रतिवेदन:—

प्रमण्डल का नाम:- मधेपुरा।

अंचल का नाम:— मधेपुरा योजना शीर्ष:—3054 एफ.डी.आर.

पथ का नामः–Singheshwar Biraili Belari Road with 5 year maintanace.

पथ की लम्बाई:-6.30 कि.मी. निर्मित / निर्माणाधीन पथ का शीर्ष:- WB(Koshi)

प्राक्कलित राषि:- रू० 34.42 लाख

B. For

प्रस्तुत प्राक्कलन वर्ष 2021 में आई अप्रत्याषित अतिवृष्टि एवं बाढ़ के कारण Singheshwar Biraili Belari Road with 5 year maintanace. पथ में हुए क्षिति यथा कटाव/धसान/जलजमाव की आकस्मिक मरम्मित एवं यातायात पूनर्बहाल करने हेतु शीर्ष 3054 एफ.डी.आर. मद से सचिव, ग्रामीण कार्य विभाग/उच्चाधिकारियों के द्वारा दिये गये निर्देष के अनुपालन में तैयार किया गया है।

प्राक्कलन अन्तर्गत पथ में हुए क्षति की विस्तृत मापी दर्षायी गई है एवं प्राक्कलन वर्त्तमान अनुसूचित दर पर तैयार किया गया है।

कनीय अभियंता ग्रामीण कार्य विभाग कार्य प्रषाखा, सिंहेश्वर

सहायक अभियंता ग्रामीण कार्य विभाग कार्य अवर प्रमण्डल, सिंहेश्वर

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमण्डल, मधेपुरा।

SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMATE FOR TEMPRORY

RESTORATION OF ROAD FROM

NAME OF ROAD: SINGHESHWAR BIRAILI BELARI ROAD

WITH 5 YEAR MAITENANCE.

DIVISION: Madhepura

BLOCK:- Sigheshwar

Actual Length of Road :- 6.300 Km

Flood Affected Length of Road :- 1.662 Km

Sr.	Description	11 121	W Pri		Amount (In Rs.)
No.				A N	
1	Total Cost of Restoration=			in the	2,908,374,53
2	Add:-Labour Cess @1% amt. =	******************		May a .	29,083.75
3	Add:GST@12% on amt. =	1 12		There is	349,004.94
4	Add:S.F.@ 10% on Material (Brick Bats) =			4	156,091.81
•	TOTAL RESTORATION COST OF	THE P	ROJEC	T IN LACS	3,442,555.02

Say, 34, 42,555=~

Junior Engineer
RWD (W) Division, Madhepura

Assistant Engineer RWD (W) Division,Madhepura Executive Engineer RWD (W) Division,Madhepura

Scanned with CamScanner

TS no - 20 slated 20/05/2012 (1) 日 日 (1) 日 日 (1) 23-291/2019. 4849 (1) 20-07/12/2021

Technically sanctioned for 2 34,42,555=00/s.e Thirty four Lacs fourty Two thousand five hundred fifty five only)

Weller 20122

Estimating Officer
Rural Work Department
Work Office Manchestry

1) Marjost m

Superintending Engineer Rural Works Department Works Circle, Madhepura

1000

Calculation of Seigniorage Fees

DETAILED ESTIMATE FOR TEMPRORY RESTORATION OF ROAD FROM SINGHESHWAR BIRAILI
BLOCK:- Sigheshwar

SNo	SOR NO	DESRIPTION OF ITEMS	OTY	UNIT	RATE	AMOUNT
1/1	12.3	Construction of embankment with approved material obtained from borrow pits with lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	V	ONI	KATE	ANIOUNI
		EW	0.00	Cum	34.81	0.00
2/2	A/R	Providing & laying Brick Bat	0.00	Cum	34.01	0.00
		Providing and laying of Brick bat obtained from chimney with machenical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	,			-
Male Park		Brick Bats	1512.52	Cum	1032.00	1560918.06
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing, specification and direction of E/I	_	1 1 20	,	
		Sand	0.00	Cum	141.85	0.00
4/8	5,7,40.2	Providing, laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3, weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)		4	-	
I distant		Sand	0.00	Cum	141.85	0.00
5/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		For Grading I Material (with Coarse Sand Screening)				
		Unit = Cum				
		Taking output = 300 cum				
		Coarse graded granular sub-base material as per Table				
		400.2			546.40	92955.60
		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	29615.76
	153-	9.5 mm to 2.36 mm @ 20 percent	72.00	Cum	411.33	
Terrar I		2.36 mm below @ 30 percent (coarse Sand Screening)	108.00	Cum	185.94	20081.52
		Cost for 300 cum = a				142652.88 475.51
	Ch.	Rate psr Cum = (a)/300		Cum	47F E4	0.00
	a president	rate per Guitt & (apost	0.00	Cum	475.51	0.00
345	Street	CSB Grd	1		TOTAL	1560918.06
9159-1V	H-Para	GSB Gr-I			Say	156091.81
		Seigniorage Fees @10% of Basic Amount				

AND ALLOS TIO 2021

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EE SOOL

Bill of Quantity

NAME OF ROAD :-

DETAILED ESTIMATE FOR TEMPRORY RESTORATION OF ROAD FROM SINGHESHWAR BIRAILI BELARI ROAD WITH 5 YEAR MAITENANCE.

BLOCK :-

Sigheshwar

DISTRICT :-

Madhepura

S.No	SOR NO	OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Construction of embankment with approved material obtained from borrow pits with lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	0.00	Cum	182.79	0.00
2/2	A/R	Providing & laying Brick Bat				
		Providing and laying of Brick bat obtained from chimney with machenical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	1512.52	Cum	1922.87	2908374.53
3/3	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I	0.00	m	45.86	0.00
4/4	5.7.8	Labour for fitting and fixing Split bamboo woven chachari in position with 20 swg G.I wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I	0.00	sqm	78.20	0.00
5/5	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pole with 150 mm long nails or 38 swg G.I. wire including cost of G.I wire or nails complete job as per specification and direction of E/I	0.00	m	5.31	0.00
6/6		Supply of Bamboo at site.	0.00	nos.	188.39	0.00
7/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I	0.00	nos.	37.05	0.00
8/8	5.7.40.2	Providing, laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3. weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	0.00	Each	172.18	0.00
0/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	0.00	Cum	2091.76	0.00
/10	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row.	0.00	m	4046.57	0.00
	26	NP3 as per design in single now.			Say	2908374.53
					-	156091.81 349004.94
		Seigniorage Fees			 	29083.7 <u>5</u>
		Add @12% GST Add @1% Lebour Cess		h	 	3442555.02
		MUU (W) 1 /0 LEDOUL COOL		N		3442555.02

8729 110 TOV

EE

4109 Wards 12027

Schedule of Quantity

ND:- FROM SINGHESHWAR BIRAILI BELARI ROAD WITH 5 YEAR MAITENANCE.

BLOCK :-

Sigheshwar

No	SOR NO	DESRIPTION OF ITEMS	ĮΤΥ	UNIT	RATE	AMOUNT
1	301.5	Construction of embankment with approved material obtained from borrow pits with lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	0.00	Cum	182.79	0.00
2	A/R	Providing and laying of Brick bat obtained from chimney with machenical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	1512.52	Cum	1922.87	2908374.53
3	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I	0.00	m	45.86	0.00
4	5.7.8	Labour for fitting and fixing Split bamboo woven chachari in position with 20 swg G.I wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I	0.00	sqm	78.20	0.00
5	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pole with 150 mm long nails or 38 swg G.l. wire including cost of G.l wire or nails complete job as per specification and direction of E/L	0.00	m	5.31	0.00
6.	1.11	Supply of Bamboo at site.	0.00	nos.	188.39	0.00
7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I	0.00	nos.	37.05	0.00
8		Providing, laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3. weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	0.00	Each	172.18	0.00
9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification	0.00	Cum	2091.76	0.00
10	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 a per design in Single Roww(1000mm Dia).	0.00	m	4046.57 Rs.	0.00

Apond 1837 10/2021

AE 291007

EE SQN

	Details o	of Meas	uremen	t		
	कार्य का ब्यौरा संख्या पैगाईस					
	Deatail of Workl		लम्बाई in m.	चौड़ाई In m.	In m.	मात्र Quantity
AME OF ROAD :-	DETAILED ESTIMATE FROM SINGHESHWAR MAITENANCE .	BIRAILI	BELARI R	OAD WITH	5 YEAR	
m No. 1 Constru upto 1.5 meet re Specific	ction of embankment with appro im, transporting to site, spreading quirement of Tables 300.1 and 3 ation Clause 301.5	oved material ng, grading to 300.2 with a le	obtained from required slo and upto 100	n borrow pits v pe and compa 00 m as per Te	vith lift cting to chnical	-
		1	0	2.5	1.25	0.000
with all	ng and laying of Brick bat obtaine ng, grading to required slope and complete as per the direction of	ed from chiming compacted engineer in c	ney with mac	otal (in Cum) henical means cheive required	with all density	0.000
СН	:-0.00 to 1000	1	55.00	2.00	0.30	33.000
	•	1	15.00	2.00	0.35	10.500
		1	18.00	1.00	0.30	5.400
		1	5.00	3.00	0.30	4.500
	,	1	20.00	3.50	0.30	21.000
		1	30.00	2.00	0.32	19.200
		1	15.00	3.50	0.25	13.125
		1	35.00	3.00	0.30	31.500
		1	30.00	3.00	0.30	27.000
		1	25.00	3.50	0.35	30.625
		. 1	15.00	3.00	0.35	15.750
	- 14	1	20.00	3.00	0.25	15.000
	16.	1	3.00	3.00	0.30	2.700
	6	1	40.00	3.00	0.30	36.000
		1	15.00	3.00	0.30	13.500
		2	35.00	2.00	0.35	49.000
		1	20.00	4.00	0.30	24.000
CH	:-1000 to 1200	1	30.00	2.00	0.35	21.000

	and the same of th				
	2	30.00	2.00	0.25	30.000
	2	25.00	3.00	0.35	52.500
	1	3.00	3.00	0.35	3.150
	1	17.00	3.00	0.35	17.850
	1	20.00	2.00	0.35	14.000
CH:-1200 to 1700	1	3.00	2.00	0.30	1.800
	1	25.00	2.00	0.30	15.000
	1	2.00	2.00	0.30	1.200
	1	5.00	4.00	0.35	7.000
	1	20.00	2.00	0.30	12.000
	1	25.00	2.00	0.35	17.500
	1	55.00	2.00	0.35	38.500
	1	60.00	2.00	0.35	42.000
	1	70.00	2.00	0.25	35.000
	1	2.00	2.00	0.30	1.200
	1	20.00	3.50	0.35	24.500
	1	20.00	2.00	0.35	14.000
	1	5.00	2.00	0.35	3.500
	1	5.00	3.00	0.40	6.000
	1	20.00	3.00	0.30	18.000
	1	2.00	2.00	0.30	1.200
	1	15.00	2.00	0.30	9.000
	1	5.00	2.00	0.35	3.500
	1	15.00	2.00	0.35	10.500
	1	55.00	2.00	0.30	33.000
CH:-2200 to 2600	1	15.00	2.00	0.30	9.000
	2	3.00	3.00	0.30	

			-		
	1	10.00	2.00	0.30	6.000
	1	2.00	2.00	0.30	1.200
	1	20.00	4.00	0.30	24.000
	1	3.00	3.00	0.30	2.700
	2	5.00	2.00	0.30	6.000
	1	2.00	2.00	0.30	1.200
	2	20.00	2.00	0.40	32.000
	1	10.00	2.00	0.29	5.800
	1	4.00	4.00	0.30	4.800
CH:-2600 to 3100	1	2.00	2.00	0.30	1.200
	2	20.00	1.50	0.30	18.000
	1	10.00	3.00	0.30	9.000
	1	10.00	3.00	0.30	9.000
	2	2.00	2.00	0.32	2.560
	2	3.00	3.00	0.30	5.400
	1	2.00	2.00	0.30	1.200
	1	5.00	2.00	0.30	3.000
	2	20.00	2.00	0.30	24.000
	1	10.00	3.00	0.30	9.000
CH:-3100 to 3900	1	2.00	2.00	0.35	1.400 🗸
	1	15.00	2.00	0.30	9.000
	1	15.00	2.00	0.20	6.000
	2	15.00	2.00	0.30	18.000
	. 1	20.00	3.00	0.40	24.000
	2	10.00	2.00	0.30	12.000
	1	15.00	3.00	0.29	13.050
	1	15.00	4.00	0.40	24.000

2	25.00	2.50	0.30	37.500
1	2.00	2.00	0.30	1.200
1	20.00	4.00	0.35	28.000
1	10.00	2.00	0.29	5.800
1	15.00	2.00	0.29	8.700
1	30.00	2.00	0.30	18.000
1	2.00	2.00	0.35	1.400
1	10.00	4.00	0.30	12.000
1	4.00			3.480
1			-	1.400
1				15.750
				3.000
	-	5- A	-	9.000
		9.		
	-			4.500
	-			3.500
				14.000
	5.00	5.00	0.30	7.500
. 2	2.00	2.00	0.35	2.800
2	4.00	4.00	0.40	12.800
3	4.00	4.00	0.35	16.800
1	4.00	4.00	0.29	4.640
1	30.00	2.00	0.35	21.000
1	10.00	3.00	0.30	9.000
1	20.00	3.50	0.35	24.500
1	15.00	3.25	0.40	19.500
1	10.00	3.50	0.35	12.250
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2.00 1 20.00 1 10.00 1 15.00 1 2.00 1 10.00 1 2.00 1 15.00 1 5.00 1 5.00 1 5.00 1 20.00 1 5.00 2 2.00 2 4.00 3 4.00 1 30.00 1 10.00 1 10.00 1 15.00	1 2.00 2.00 1 20.00 4.00 1 10.00 2.00 1 15.00 2.00 1 2.00 2.00 1 10.00 4.00 1 4.00 3.00 1 2.00 2.00 1 5.00 2.00 1 5.00 3.00 1 5.00 3.00 1 5.00 2.00 1 5.00 2.00 2 2.00 2.00 2 2.00 2.00 2 4.00 4.00 3 4.00 4.00 1 30.00 2.00 1 10.00 3.00 1 10.00 3.00 1 10.00 3.50 1 15.00 3.25	1 2.00 2.00 0.30 1 20.00 4.00 0.35 1 10.00 2.00 0.29 1 15.00 2.00 0.30 1 2.00 2.00 0.30 1 2.00 2.00 0.35 1 10.00 4.00 0.30 1 2.00 2.00 0.35 1 15.00 3.00 0.35 1 5.00 2.00 0.30 1 5.00 2.00 0.30 1 5.00 3.00 0.30 1 5.00 2.00 0.35 1 5.00 2.00 0.35 1 5.00 2.00 0.35 1 5.00 5.00 0.30 2 2.00 2.00 0.35 1 4.00 4.00 0.40 3 4.00 4.00 0.29 1 30.00 3.00 0.35 1 10.00 3.00 0.35

	-				
	1	4.00	3.75	0.35	5.250
	1	5.00	2.00	0.40	4.000
CH:-5600 to 6300	1	2.00	1.00	0.30	0.600
	1	4.00	3.00	0.40	4.800
	1	10.00	4.00	0.30	12.000
	1	55.00	3.75	0.35	72.188
	1	3.00	2.00	0.30	1.800
	1	15.00	3.00	0.30	13.500
	1	15.00	4.00	0.30	18.000
	1	15.00	2.00	0.25	7.500
	1	5.00	1.50	0.30	2.250
		1662		-	1512.5175
Less For Pipe	0).6)2x2.5	(-)	
			Total (in	(-)	0.000
			Total (III	Cumi	1512.518

29/10/2021 JE AE ZUTEPON

E.E. Zalt