



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Chief Resident Engineer  
 Osmani & Company (Pvt) Ltd  
 Swat Motorway Project

Reference # CED/TFL **34077** (Dr. Ali Ahmed)  
 Reference of the request letter # 336/CRE/QAT SMP/2019

Dated: 25-10-2019  
 Dated: 17-10-2019

**Tension Test Report** (Page – 1/3)

Date of Test 05-11-2019

Gauge length 2 inches

Description Light Pole & Base Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Light Pole	25.40x4.65	118.11	4500	5700	373.76	473.43	0.50	25.00	
2		25.40x4.65	118.11	4500	5800	373.76	481.74	0.50	25.00	
3	Base Plate	25.60x20.20	517.12	18200	26000	345.26	493.23	0.80	40.00	
4		25.60x20.20	517.12	18700	26400	354.75	500.82	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile and Two Samples for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Light Pole Bend Test Through 180° is Satisfactory										
Strip Taken from Base Plate Bend Test Through 180° is Satisfactory										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Chief Resident Engineer  
 Osmani & Company (Pvt) Ltd  
 Swat Motorway Project

Reference # CED/TFL **34077** (Dr. Ali Ahmed)  
 Reference of the request letter # 336/CRE/QAT SMP/2019

Dated: 25-10-2019  
 Dated: 17-10-2019

**Weight & Size Test Report** (Page – 2/3)

Date of Test 05-11-2019  
 Gauge length -----  
 Description Light Pole Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Top		Bottom		Wall Thickness	Remark
					External Diameter	Internal Dia meter	External Diameter	Internal Dia meter		
-----		(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	(mm)	(mm)	
1	Light Pole	2992	143.80	20.81	160.0	150.60	180.10	170.70	4.70	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Samples for Test</b>										

To,

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Chief Resident Engineer  
Osmani & Company (Pvt) Ltd  
Swat Motorway Project

Reference # CED/TFL **34077** (Dr. Ali Ahmed)  
Reference of the request letter # 336/CRE/QAT SMP/2019

Dated: 25-10-2019

Dated: 17-10-2019

**Weight & Size Test Report** (Page – 3/3)

Date of Test 05-11-2019  
Gauge length -----  
Description Base Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
1	Base Plate	640	63.50	63.20	19.47	20.15	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>							

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Amad Anwar Pvt Ltd  
 Construction of Bunes Hub on Commercial Broadway Phase-VIII  
 (DHA)(M/s Nucon Engineers)

Reference # CED/TFL **34091** (Dr. Ali Ahmed) Dated: 29-10-2019  
 Reference of the request letter # 410/10/Business Hub/ Ph. VIII/M & F Dated: 28-10-2019

**Tension Test Report** (Page – 1/2)

Date of Test 05-11-2019  
 Gauge length 2 inches  
 Description G.I Sheet Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Gauge)	(mm)	(mm <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	20	25.70x0.85	21.85	8.60	9.70	393.68	444.04	0.60	30.00	
2		25.70x0.85	21.85	8.50	9.55	389.11	437.17	0.60	30.00	
3	22	25.70x0.55	14.14	-----	6.55	-----	463.39	0.50	25.00	
4		25.70x0.55	14.14	-----	6.25	-----	442.16	0.55	27.50	
5	24	25.60x0.49	12.54	-----	5.7	-----	454.40	0.50	25.00	
6		25.60x0.49	12.54	-----	5.7	-----	454.40	0.50	25.00	
7	26	25.60x0.38	9.73	-----	4.6	-----	472.86	0.60	30.00	
8		25.60x0.38	9.73	-----	4.6	-----	472.86	0.50	25.00	
<b>Only Eight Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer  
Amad Anwar Pvt Ltd  
Construction of Bunes Hub on Commercial Broadway Phase-VIII  
(DHA)(M/s Nucon Engineers)

Reference # CED/TFL **34091** (Dr. Ali Ahmed)

Dated: 29-10-2019

Reference of the request letter # 410/10/Business Hub/ Ph. VIII/M & F

Dated: 28-10-2019

**Size Test Report** (Page – 2/2)

Date of Test 05-11-2019

Gauge length -----

Description G.I Sheet Size Test

Sr. No.	Designation	Thickness	Remark
	(Gauge)	mm	
1	20	0.85	
2	22	0.55	
3	24	0.49	
4	26	0.38	
-	-	-	
-	-	-	
-	-	-	
<b>Only Four Samples for Test</b>			

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 Amad Anwar Pvt Ltd  
 Construction of Bunes Hub on Commercial Broadway Phase-VIII  
 (DHA)(M/s Nucon Engineers)(M/s LONTRIN (Pvt) Ltd)

Reference # CED/TFL **34092** (Dr. Ali Ahmed)

Dated: 29-10-2019

Reference of the request letter # 410/10/Business Hub/ Ph. VIII/M & F

Dated: 28-10-2019

**Tension Test Report** (Page – 1/1)

Date of Test 05-11-2019  
 Gauge length 2 inches  
 Description MS Pipe Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	1	25.50x3.50	89.25	3900	4700	428.67	516.61	0.30	15.00	
2		25.50x3.50	89.25	4000	4500	439.66	494.62	0.40	20.00	
3	1.25	25.60x3.55	90.88	4200	4900	453.37	528.93	0.40	20.00	
4		25.70x3.40	87.38	4300	4900	482.75	550.11	0.50	25.00	
5	1.5	25.40x3.50	88.90	4200	4800	463.46	529.67	0.50	25.00	
6		25.60x3.40	87.04	4300	5000	484.64	563.53	0.50	25.00	
7	2	25.60x3.70	94.72	4300	5000	445.34	517.84	0.40	20.00	
8		25.70x3.70	95.09	4000	4900	412.66	505.51	0.40	20.00	
9	2.5	25.70x5.20	133.64	5100	6700	374.37	491.82	0.50	25.00	
10		25.70x5.20	133.64	5100	6700	374.37	491.82	0.40	20.00	
<b>Only Ten Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/11/34101

Dated: 30-10-2019

Dated of Test: 05-11-2019

To,  
**M/S Gunj Bukhash Builders**  
**Lahore**

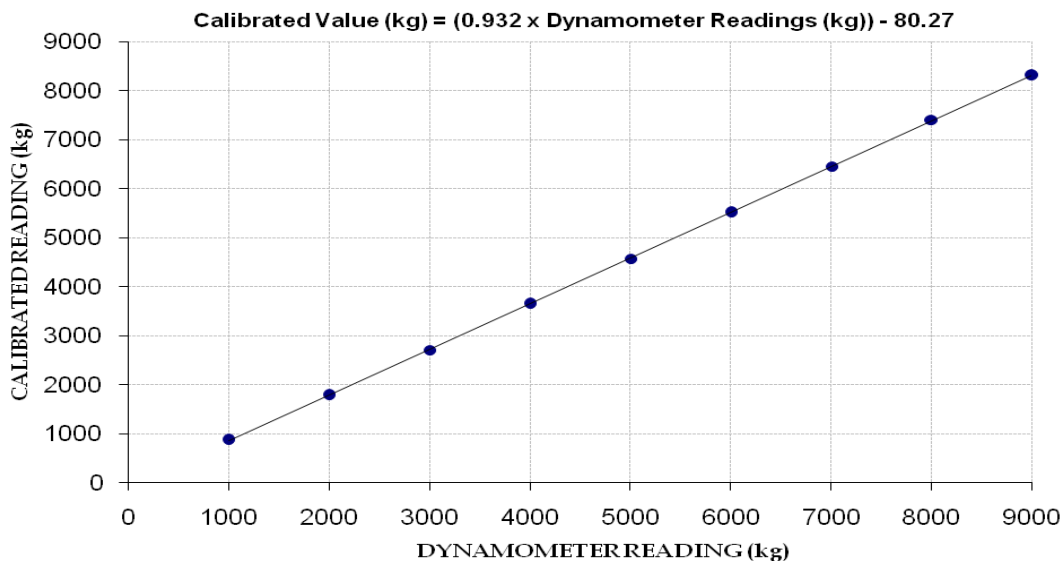
Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/11/34101)**

Ref: Your letter No. GBB-UET-Dyno-01, dated: 30/10/2019 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 10000 (kg)**  
**Calibrated Range : Zero - 9000 (kg)**

Dynamometer Readings (kg)	1000	2000	3000	4000	5000	6000	7000	8000	9000	
Calibrated Readings	(kN)	8.55	17.48	26.58	35.75	44.85	54.05	63.30	72.68	81.48
	(kg)	872	1781	2709	3644	4572	5510	6453	7408	8305

**Calibration Curve for Dynamometer**



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/10/34106

Dated: 31-10-19

Dated of Test: 05-11-19

To  
Additional Director Development  
DHA Phase-XI (Rahbar)  
Construction of MT Parking Area in Sector-I, DHA Phase-XI (Rahbar)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76]

Reference to your letter No. MT/Parking Shed/Sec-I/1/19/3113, dated 30-10.2019 on the subject cited above. One R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.370	2.226	318.00	216.52	50.74	8800	11900	179.11	242.21

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Building Standards  
Lahore  
(Refurbishment of Mangal Switchyard Project)

Reference # CED/TFL **34114** (Dr. Ali Ahmed)  
Reference of the request letter # GT/LTR/191031

Dated: 31-10-2019  
Dated: 31-10-2019

**Tension Test Report** (Page – 1/1)

Date of Test 05-11-2019  
Gauge length 2 inches  
Description Steel Angle Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Bracing Angle (132kV)	24.80x4.60	114.08	3500	5300	300.97	455.76	0.60	30.00	
2		24.80x4.70	116.56	3700	5500	311.40	462.89	0.70	35.00	
3	Steel Bracing Angle (220kV)	24.80x6.30	156.24	6000	8900	376.73	558.81	0.60	30.00	
4		24.90x6.70	166.83	5800	8900	341.05	523.34	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Innovative Construction Company  
Lahore  
(Imtiaz Super Market, Sialkot)

Reference # CED/TFL **34124** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 04-11-2019  
Dated: 04-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 05-11-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.419	10	10.06	0.12	0.123	4000	5000	73487	71600	91858	89500	0.90	11.3	
2	0.418	10	10.04	0.12	0.123	4000	5200	73487	71780	95533	93400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Manager Coordination  
 Izhar Construction (Pvt) Ltd  
 Hyundai Nishat Motor Pvt. Limited, Faisalabad

Reference # CED/TFL **34125** (Dr. Ali Ahmed)  
 Reference of the request letter # ICPL/CONST-HNMPL/19/112

Dated: 04-11-2019  
 Dated: 02-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 05-11-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.363	10	9.37	0.12	0.107	4100	5100	75324	84600	93696	105300	0.80	10.0	
2	0.364	10	9.37	0.12	0.107	4100	5200	75324	84460	95533	107200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Assistant Director-II  
 Building Research Station  
 Lahore  
 (Model Steel)

Reference # CED/TFL **34126** (Dr. Ali Ahmed)  
 Reference of the request letter # 154-R/2996

Dated: 04-11-2019  
 Dated: 31-10-2019

**Tension Test Report** (Page -1/1)

Date of Test 05-11-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3/8	0.373	0.11	0.109	3200	4700	64200	64470	94200	94700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Oxbow International (Impex)  
Lahore

Reference # CED/TFL **34127** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 04-11-2019

Dated: 04-11-2019

**Tension Test Report** (Page – 1/1)

Date of Test 05-11-2019  
Description Steel Wire Rope Tensile Test

Sr. No.	Diameter	Measured weight	Breaking Load		Remarks / Coil No.
	(mm)	(kg/km)	(kg)	(kN)	
1	11	399	6200	60.82	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only one sample for Test					

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

**Note:**

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Project Manager  
 M Sohail Anjum  
 P-156 Gulberg II Lahore

Reference # CED/TFL **34130** (Dr. Ali Ahmed)  
 Reference of the request letter # P-156-032

Dated: 05-11-2019  
 Dated: 05-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 05-11-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.389	3	0.381	0.11	0.114	4100	5200	82200	79120	104200	100400	0.90	11.3	
2	0.376	3	0.375	0.11	0.110	4000	4900	80200	79880	98200	97900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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**I/C Testing Laboratories**  
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